

**IBM® Z Workload Scheduler**  
**Diagnosis Guide and Reference**  
**Version 10.1 (Revised December 2023)**

## Note

Before using this information and the product it supports, read the information in [Notices on page dcclxxxvi](#).

This edition applies to version 10, release 1, modification level 0 of IBM® Z Workload Scheduler (program number 5698-T09) and to all subsequent releases and modifications until otherwise indicated in new editions.

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# About this publication

*Diagnosis Guide and Reference* contains information to help you to diagnose and correct possible problems in using IBM Z Workload Scheduler. It also describes the structure of an IBM Z Workload Scheduler address space and describes the major functions of the subtasks.

This publication addresses the following tasks:

- Determining whether the problem was caused by IBM Z Workload Scheduler.
- If the problem is in IBM Z Workload Scheduler, developing a list of keywords that describe it. This list of keywords will be used by IBM® Software Support to search a database to determine if your problem has already been reported.
- Isolating failing program code to find a solution.

The term *scheduler*, when used in this publication, refers to IBM Z Workload Scheduler. The term DB2®, when used in this publication, refers to DATABASE 2 and DB2 Universal Database™.

The term z/OS® is used in this publication to mean z/OS® and OS/390® operating systems. Where the term OS/390® appears, the related information applies only to OS/390® operating systems.

## What is new in this release

Learn what is new in this release.

For information about the new or changed functions in this release, see the section *Summary of enhancements* in the *Overview* manual.

For information about the APARs that this release addresses, see the *IBM Z Workload Scheduler: Program Directory* and the *Dynamic Workload Console Release Notes*.

## Who should read this publication

This publication is intended for system programmers who work with IBM Z Workload Scheduler and for IBM® users responsible for IBM Z Workload Scheduler service.

## Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully.

With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate all features of the graphical user interface.

For full information, see the Accessibility Appendix in the *IBM Workload Scheduler User's Guide and Reference*.

## Technical training

Cloud & Smarter Infrastructure provides technical training.

For Cloud & Smarter Infrastructure technical training information, see: <http://www.ibm.com/software/tivoli/education>

## Support information

IBM provides several ways for you to obtain support when you encounter a problem.

If you have a problem with your IBM software, you want to resolve it quickly. IBM provides the following ways for you to obtain the support you need:

- Searching knowledge bases: You can search across a large collection of known problems and workarounds, Technotes, and other information.
- Obtaining fixes: You can locate the latest fixes that are already available for your product.
- Contacting IBM Software Support: If you still cannot solve your problem, and you need to work with someone from IBM, you can use a variety of ways to contact IBM Software Support.

For more information about these three ways of resolving problems, see the appendix about support information in *IBM Workload Scheduler: Troubleshooting Guide*.

## Conventions used in this publication

Conventions used in this publication.

The publication uses several typeface conventions for special terms and actions. Technical changes to the text are indicated by a vertical line to the left of the change. These conventions have the following meanings:

| Information type                                                | Style convention    | Example            |
|-----------------------------------------------------------------|---------------------|--------------------|
| Commands                                                        | All capital letters | CREATE             |
| References in the text to fields on panels                      | All capital letters | QUANTITY           |
| File and directory names, input you should type in panel fields | Monospace           | MYAPPLICATION      |
| First time new term introduced, publication titles              | Italics             | <i>Application</i> |



# Part I. Diagnosis guide

This part describes how you classify and describe problems that you encounter when working with IBM Z Workload Scheduler systems.

# Chapter 1. Introduction

This book is intended to help you classify and describe problems in IBM Z Workload Scheduler systems.

To identify an error, you must first gather information related to the problem, such as ABEND codes and dumps. You can then determine whether the problem is in IBM Z Workload Scheduler and, if it is, this book helps you to classify and describe the problem. The external symptoms of several problems are described to help you identify which problem type to investigate. Each problem type requires a different procedure when you describe the problem. Use these procedures to build a string of keywords and to obtain documentation relevant to the problem. This combination of a keyword string and associated documentation helps you to describe the problem accurately to IBM® Software Support.

Use the IBM Z Workload Scheduler problem description sheet in [Problem description sheet on page 784](#) as a problem log. You can copy this form and use it to record all the related facts about the problem.

## Using keywords to describe a problem

A *keyword* is a word or abbreviation that describes a single aspect of a program failure to IBM® Customer Support. You use keywords to describe all aspects of a problem, from the IBM Z Workload Scheduler component ID to the area of failure (see [Initial problem analysis on page 20](#)). You then use the problem analysis procedures to build a keyword string (see [Problem analysis procedures on page 24](#)).

For example, if your program failure is abnormal termination of a task, the keyword is ABEND. Other keywords are also formed to describe particular aspects of the abnormal termination, such as the name of the module where the abend occurred. These keywords are then combined to form a keyword string:

### Example

```
5698-T08 ABENDnnn EQQyyyyy REGn
```

where:

#### **5698-T08**

The IBM Z Workload Scheduler component ID

#### **ABEND**

The problem type

#### **nnn**

The ABEND code (for example, 0C4)

#### **EQQyyyyy**

The module containing the ABEND (for example, EQQMAJOR)

#### **REGn**

The general-purpose register containing invalid information

## Searching the software-support database

To determine if the problem has been noted before, you can use the keyword string that you create to search the software-support database. If a problem similar to yours is described in the database, a solution is probably available. To widen or narrow the database search, you can vary the keyword string you develop.

If you have the IBM Information/Access program, use the keyword string to search the RETAIN database for solutions to problems similar to yours. IBM Level 1 service personnel can help you develop the keyword string and search the database for a similar problem. If the RETAIN database is not available to you, the IBM Support Center will help you solve your problem.

## What is IBM® Software Support?

IBM® Software Support helps you resolve problems with IBM® products, and to ensure that you can make the best use of your IBM® computing systems. IBM® Software Support is available to all licensed users of IBM® licensed programs.

The role of each member of IBM's support staff is outlined in the following sections of this chapter.

## Working with the IBM® Support Center

To get assistance, you should phone your local IBM® Support Center. Before you contact the IBM® Support Center, however, try to ensure that the problem belongs with the Support Center. Do not worry if you cannot be sure that the problem is caused by IBM Z Workload Scheduler itself. How sure you are will depend on the complexity of your installation, the experience and skill levels of your systems staff, and the symptoms that you have been experiencing.

In practice, many errors reported to the Support Center turn out to be user errors, errors that cannot be reproduced, or errors that should be dealt with by other parts of IBM® Service, such as Hardware Customer Engineering or Systems Engineering. This indicates just how difficult it can be to determine the precise cause of a problem. User errors are mainly caused by mistakes in setting up or using systems.

## Supplying information to the IBM® Support Center

Your first contact with the IBM® Support Center will be with the call receipt operator, who will take initial details and put your problem on a queue. You will subsequently be contacted by a Support Center representative who will investigate your problem further.

The Support Center needs to know as much as possible about your problem, so have the information ready before making your first call. It is a good idea to enter the information on a problem description sheet, such as the one shown in [Problem description sheet on page 784](#).

Here are two advantages of using a problem description sheet:

- You will be communicating with the IBM® Support Center by telephone. With all your findings before you on a sheet of paper, you will be better prepared to respond to the questions that you might be asked.
- You can maintain your own in-house tracking system to record and document all problems. This information can then be used for planning, organizing, communicating, and establishing priorities for controlling and resolving these problems.

When you contact the Support Center, you will need to give the operator the name of your organization and your access code or customer number. Your access code or customer number is a unique code authorizing you to use IBM® Software Services. You must provide this code each time you contact the Support Center. Using this information, the operator will access your customer profile, which contains your address, relevant contact names, telephone numbers, and details of the IBM® products at your installation.

The Support Center operator will ask you if this is a new problem or a call on an existing one. If it is new, you will be assigned a unique incident number. A problem management record (PMR) will be opened on the RETAIN® system where all activity associated with your problem will be recorded. The problem will remain *open* until it is resolved. Make a note of the incident number on your own problem reporting sheet. The Support Center will expect you to quote the incident number in all future calls connected with this problem.

If the problem is new to you, the operator will ask you for the source of the problem within your system software—that is, the program that seems to be the cause of the problem. As you are reading this book, it is likely that you have already identified IBM Z Workload Scheduler as the problem source. You will also have to give the IBM Z Workload Scheduler version, release, and maintenance level.

You will need to give a severity level for the problem. Severity levels can be 1, 2, or 3, and they have the following meanings:

**Severity level 1**

Indicates that you are unable to use IBM Z Workload Scheduler, resulting in a critical condition that needs immediate attention

**Severity level 2**

Indicates that you are able to use IBM Z Workload Scheduler, but that operation is severely restricted

**Severity level 3**

Indicates that you are able to use IBM Z Workload Scheduler with limited functions, but the problem is not critical to your overall operation.

When deciding the severity of the problem, take care neither to understate it nor to overstate it. The Support Center procedures depend on the severity level so that the most suitable use can be made of their skills and resources. Your problem will normally be dealt with immediately if it is severity level 1.

Finally, the call receipt operator will ask you for a brief description of the problem and might prompt you for keywords associated with the problem. The primary keywords are ABEND, ABENDU, DOC, INCORROUT, LOOP, MSG, PERFM, and WAIT, corresponding exactly to the problem classification types used later in this book. Strings containing other keywords are also useful. These are not predefined and might include such items as a message or message number, an abend code, any parameters known to be associated with the problem, or, for example, the name of a feature of IBM Z Workload Scheduler.

The keywords will subsequently be used as search arguments on the RETAIN® database to see if your problem is a known one that has already been the subject of an authorized program analysis report (APAR).

You will not be asked for any more information at this stage. However, you should keep all the information relevant to the problem, including logs, dumps, and traces.

## How your problem is processed

How your problem is subsequently processed depends on its nature. The representative who handles the problem will give you guidance on what is required from you.

Details of your call are passed, using the RETAIN® problem management system, to the associated support group. Because your problem is one associated with IBM Z Workload Scheduler, it is put on an IBM Z Workload Scheduler queue. The problems are dealt with in order of severity level.

At first, a Level 1 representative will use the keywords that you have provided to search the RETAIN® database. If your problem is found to be one already known to IBM®, and a fix has been devised for it, a program temporary fix (PTF) can quickly be dispatched to you. If the RETAIN® search is unsuccessful, the problem will be passed to a Level 2 representative, who will ask you for more information about your problem over the telephone.

Let the Level 2 representative know if any of the following events occurred before the problem appeared:

- Changes in level of z/OS® or licensed programs
- PTFs applied
- Additional features used
- Application programs changed
- Unusual operator action.

You might be asked to give values from a formatted dump or trace table. You might also be asked to carry out some special activity (for example, to set a trap or to use trace with a certain selectivity) and then to report on the results.

It might be necessary to have several follow-up telephone calls, depending on the complexity of the symptoms and your system environment. In every case, the actions taken by you and the Support Center are entered in the PMR. The Level 2 representative can then be acquainted with the full history of the problem before any follow-up call.

If the Level 2 investigation shows that the problem is already known and a fix has been developed, the fix will be sent to you. If the problem is new, an APAR might be submitted. This will be dealt with by the IBM Z Workload Scheduler change team.

## Working with the change team

You use APARs to communicate a new problem with a program, in this case IBM Z Workload Scheduler, to the change team for the program. When the change team solves the problem, they can, at your request, supply you with an APAR fix, enabling you to get your system running again. Finally, a PTF is produced to replace the module in error, and the APAR is closed.

## The APAR process

The first step in the APAR process is that a Level 2 representative will enter your APAR into the RETAIN® system. The APAR text will contain a description of your problem. If you have found a means of bypassing the problem, details of this will be entered as well. Your name is also entered so that the change team knows who to contact if they need to ask anything about the APAR documentation and supporting material (for simplicity, referred to as documentation in the rest of this book).

When the APAR has been entered, you will be given an APAR number. You must write this number on all the documentation you submit to the change team. This number will always be associated with the APAR and its resolution. If a code change is required, this number will be associated with the APAR fix as well.

The next stage in the APAR process involves providing the change team with the necessary documentation. Here is a summary of the things you must do:

1. You must collect the documentation that is required for the APAR. You will be given guidance by the Level 2 representative on precisely what you must send. The documentation that is required will vary, depending on the problem area (see [Collecting the documentation for the APAR on page 18](#)).
2. You must package all the documentation and send it to the change team. The procedure for this is given in [Sending the documentation to the change team on page 19](#).
3. You must apply the PTF resulting from the APAR, possibly after testing the fix on your system. This is described in [Obtaining and applying the fix on page 19](#).

## Collecting the documentation for the APAR

As a general rule, the documentation you must submit for an APAR includes all the material you need to carry out problem determination. Some of the documentation is common to all IBM Z Workload Scheduler problems, and some is specific to particular problems.

Make sure the problem you have described can be seen in the documentation you send. If the problem has ambiguous symptoms, you must reveal the sequence of events leading up to the failure. Tracing is valuable in this respect, but you might be able to provide details that the trace cannot give. You are encouraged to annotate your documentation, if your annotation is legible and if it does not cover up vital information. You can highlight data in any hard copy you send, using transparent highlighting markers. You can also write notes in the margins, preferably using a red pen so that the notes are not overlooked.



**Note:** If you send too little documentation or if it is unreadable, the change team will have to return the APAR marked 'insufficient documentation'. Therefore, you should prepare your documentation carefully, and send everything that is relevant to the problem.

Here is a list of the documentation you might be asked to submit for an APAR (in this case, documentation also refers to supporting material). However, these are only guidelines; you must find out from your Level 2 representative precisely what documentation you must send for your specific problem.

- Details of the JCL and messages from the jobs that were run when IBM Z Workload Scheduler was installed.
- The IBM Z Workload Scheduler files that are involved, from both before and after the error. You must supply the contents of the files, as well as their attributes (such as size and block size), and a list of the catalog entries for the VSAM files.
- A storage dump of program load modules.
- A printout of the z/OS® SYSLOG message-log file.
- A printout of the IBM Z Workload Scheduler message log (EQQMLOG) for each address space.
- A printout of IBM Z Workload Scheduler diagnostic files for both the dialog user and the address space. The files are defined by ddname EQQDUMP.
- Information about the route used through the dialog (panel IDs) and the data entered on each panel. A printout of the dialog panels involved with input data is also useful.
- A listing of the job-tracking logs.
- ISPF diagnostic material.
- A description of the IBM Z Workload Scheduler configuration.
- A description of the IBM Z Workload Scheduler maintenance level—PTFs and APARs applied. System Modification Program/Extended (SMP/E) provides this information.
- Details about your z/OS® and JES levels.
- Details of any user modifications.
- The kind of interface the customer uses (Dynamic Workload Console, PIF).

You can use the IBM Z Workload Scheduler APAR tape function to collect all important IBM Z Workload Scheduler data sets. You might need to modify the JCL that is generated by the APAR tape function so that all event data sets are collected.

## Sending the documentation to the change team

The best way to submit documentation to the Support Center is through FTP or e-mail. For detailed instructions, see Info APAR II13819 “How to send customer documentation for PMRs

## Obtaining and applying the fix

When the problem is solved, a code will be entered on RETAIN® to close the APAR, and you might be provided with an APAR fix. You can ask your Support Center about the progress of your APAR at any time, particularly if it is a problem of high severity. When the change team has found a fix for your problem, they might want you to test it on your system. If they do ask you to test the fix, you are normally given 2 weeks to do the test and to provide them with feedback. However, you can ask for an extension if you are unable to complete the testing in that time.

When the team is confident that the fix is satisfactory, the APAR is closed. You will receive notification when this happens.

If the solution involves a change to code in an IBM Z Workload Scheduler module and no APAR has yet been raised, you might be supplied with a ZAP or a USERMOD. The change will be distributed later as a PTF. If you want a PTF to resolve a specific problem, you can order it explicitly by its PTF number through the IBM® Support Center.

## Chapter 2. Initial problem analysis

This chapter defines problems that might occur in IBM Z Workload Scheduler. The external symptoms of each problem are described to help you or an IBM® representative to classify your problem. After you identify the problem type, turn to [Problem analysis procedures on page 24](#) to document the problem further and to build a keyword string. The keyword string will be used by the IBM® Support Center to search a database to determine if your problem has been previously reported. You can use a copy of the IBM Z Workload Scheduler problem description sheet in [Problem description sheet on page 784](#) to record all the information related to the problem.

### Steps in classifying the problem

When you are classifying the problem, you should go through the following steps:

1. Select the related problem-type keyword by matching one or more of the symptoms described in this chapter with the symptoms of your IBM Z Workload Scheduler problem.
2. See the corresponding procedure in [Problem analysis procedures on page 24](#), and gather the relevant information for your specific problem.
3. Provide the information that is needed for all problems, as described in [Information needed for all problems on page 36](#). Continue building the keyword string.

If you are unable to match your problem to any of those described here, you should still compile the information needed for all problems (item 3 on page 20 above).

### Problem-type keywords

The problem-type keywords are used to identify the failure that occurred. The following are the keywords and the problem types they identify:

#### **ABEND**

Abnormal termination with a system abend code

#### **ABENDU**

Abnormal termination with a user abend code

#### **DOC**

Documentation

#### **INCORROUT**

Incorrect output

#### **LOOP**

Loop

#### **MSG**

Message



**PERFM**

Performance

**WAIT**

Wait

**ABEND**

Choose the **ABEND** keyword when the IBM Z Workload Scheduler program comes to an abnormal end with a system abend code. You should also use ABEND when any program that services IBM Z Workload Scheduler (for example, VTAM®) terminates it, and one of the following symptoms appears:

- An abend message at an operator console. The abend message contains the abend code and is found in the system console log.
- A dump is created in a dump data set.

If a message was issued, use the MSG keyword to document it. See [Abnormal termination \(ABEND or ABENDU\) procedure on page 24](#) to describe the problem.

**ABENDU**

Choose the **ABENDU** keyword when the IBM Z Workload Scheduler program comes to an abnormal end with a user abend code, and the explanation of the abend code states that it is a program error. Also choose this keyword when a user abend (which is not supposed to signify a program error) occurs when it should not occur, according to the explanation. If a message was issued, use the MSG keyword to document it.

For a description of the problem, see [Abnormal termination \(ABEND or ABENDU\) procedure on page 24](#).

**DOC**

Choose the **DOC** keyword when one or more of the following symptoms appear:

- There is incomplete or inaccurate information in an IBM Z Workload Scheduler publication.
- The published description of IBM Z Workload Scheduler does not agree with its actual operation.

See [Documentation \(DOC\) procedure on page 26](#) to describe the problem.



**Note:** Report a documentation problem only when it meets one of the criteria listed.

**INCORROUT**

Choose the **INCORROUT** keyword when one or more of these symptoms appear:

- You received unexpected output, and the problem does not appear to be a loop.
- The output appears to be incorrect or incomplete.

- The output is formatted incorrectly.
- The output comes from damaged files or from files that are not set up or updated correctly.

To describe the problem, refer to [Incorrect output \(INCORROUT\) procedure on page 27](#).

## LOOP

Choose the **LOOP** keyword when one or more of the following symptoms exist:

- Part of the program, other than a message, is repeating itself.
- An IBM Z Workload Scheduler command has not completed after an expected period of time, and the processor usage is at higher-than-normal levels.
- The processor is used at higher-than-normal levels, a workstation operator experiences terminal lockout, or there is a high channel activity to an IBM Z Workload Scheduler database.

Turn to [LOOP procedure on page 27](#) to describe the problem.

## MSG

Choose the **MSG** keyword to specify a message failure. You use this keyword when an IBM Z Workload Scheduler problem causes an IBM Z Workload Scheduler error message. The message might appear at the system console or in the IBM Z Workload Scheduler message log, or both. If you use the end-to-end feature, the messages also appear in the STDLIST subdirectory of the work directory (defined by the WRKDIR keyword of the TOPOLOGY statement).

The messages issued by IBM Z Workload Scheduler appear in the following formats:

**EQQ***FnnnC*

**EQQ***FFnnC*

**EQQ***nnnnC*

The message is followed by the message text. The variable components represent:

### **F or FF**

The IBM Z Workload Scheduler component that issued the message

### **nn, nnn, or nnnn**

The message number

### **C**

A severity code of I (information), W (warning), or E (error).

## IBM Z Workload Scheduler message-number examples

EQQW002E

EQQSU21E

EQQ0370W

The message log of the end-to-end server can list also IBM Workload Scheduler messages. They have the following format:

```
AWS<component_code><numeric_identifier><severity>;
```

For message reference, see *IBM Workload Automation: Messages and Codes*.

If the message of the log file contained in the STDLIST directory does not have the EQQ or AWS prefixes, your problem is probably not associated with IBM Z Workload Scheduler, and you should not use the MSG keyword.

Turn to [Message \(MSG\) procedure on page 27](#) to describe the problem.



**Note:** In cases such as the following, you might want to use **INCORROUT** in addition to the MSG keyword:

- A message describes conditions that do not apply to the actual program operation.
- A message text has not appeared.
- A message text appears to contain incorrect data.
- IBM Z Workload Scheduler has printed a message that starts with EQQ and the message is not documented, or is not documented correctly, in *Messages and Codes*.
- A message is issued under conditions that should not have resulted in it being issued.

## PERFM

Choose the **PERFM** keyword when one or more of the following symptoms appear:

- IBM Z Workload Scheduler event processing or commands, including commands entered from a terminal in session with IBM Z Workload Scheduler, take an excessive amount of time to complete.
- IBM Z Workload Scheduler performance characteristics do not meet explicitly stated expectations. Describe the actual and expected performances and the explicit source of the performance expectation.

Refer to [Performance \(PERFM\) procedure on page 28](#) to describe the problem.

## WAIT

Choose the **WAIT** keyword when one or more of the following symptoms appear:

- The IBM Z Workload Scheduler program, or any program that services this program, has suspended activity while waiting for a condition to be satisfied without issuing a message to indicate why it is waiting.
- The console operator cannot enter commands or otherwise communicate with IBM Z Workload Scheduler, and IBM Z Workload Scheduler does not appear to be in a loop.
- If the last instruction executed was not a WAIT SVC instruction (X'0A01'), you might not be in a true wait state. You should then analyze the problem further to determine whether you are in a loop or executing code as expected.

See [WAIT on page 23](#) to describe the problem.

## Chapter 3. Problem analysis procedures

This chapter details the procedures that you use to further describe a problem. First, you gather the information for the specific problem type. Then you provide the information that is common to all problems (for details, see [Information needed for all problems on page 36](#)). You should compile this information even if you are unable to identify the specific problem type.

### Information needed for a specific problem type

When you have chosen a problem-type keyword, see [Initial problem analysis on page 20](#), collect problem documentation and create a keyword string to describe the problem. To do this, gather the information for the specific problem (the associated keyword is in parentheses).

- System or user abnormal-termination procedure (ABEND or ABENDU)
- Documentation procedure (DOC)
- Incorrect output procedure (INCORROUT)
- Loop procedure (LOOP)
- Message procedure (MSG)
- Performance procedure (PERFM)
- Wait procedure (WAIT)
- Procedure to resolve event-reapplying problems at controller startup

After collecting the documentation using a specific procedure, go to [Information needed for all problems on page 36](#) to complete the problem description. You can use the IBM Z Workload Scheduler problem description sheet, see [Problem description sheet on page 784](#), to record all the information related to the problem.

### Abnormal termination (ABEND or ABENDU) procedure

A malfunction in the system can cause an abnormal termination (abend). Abend categories are:

- User abend
- System abend
- Program check abend.

**User abends** originate in the application program. IBM Z Workload Scheduler abend codes are documented in [Abend codes on page 777](#) and *Messages and Codes*

**System abends** can occur, for example, when a system supervisor-call instruction (SVC) is issued in a program with an incorrect event-control-block (ECB) address. Refer to *z/OS Codes* and *z/OS Messages*

**Program check abends** are hardware-detected error conditions, such as a store to an invalid address or an attempt to execute an invalid instruction.

To correct the problem, you need to know which part of the code the problem is in. For any abend, you need to determine which module failed. For example, was the failure in:

- An IBM Z Workload Scheduler module?
- User-written code, an exit, or an IBM Z Workload Scheduler program interface (PIF) application?
- Another IBM® licensed program running in the IBM Z Workload Scheduler address space?
- A PIF application running in another address space?
- The Dynamic Workload Console?

If your IBM Z Workload Scheduler problem is an abnormal termination, you should:

1. Determine the name of the active IBM Z Workload Scheduler task. The active task can be determined only if you have a dump data set. You can use the SYSMDUMP dump data set and format the output using interactive problem control system (IPCS).
2. Check the name of the failing load module. If the first 3 characters are EQQ, an IBM Z Workload Scheduler module has abended.
3. Locate and record the abend code.
4. Locate and record the name of the failing module and the offset of the failing instruction in the current CSECT of that module. The address of the failing instruction is given by the program status word (PSW) at entry to the abend information.

Locate the failing instruction in the dump. The base register will normally be register 11 or 12. Determine the values of these registers by locating the `Registers at entry to ABEND` area in the dump. Either register 11 or register 12 will have a value that is less than the address of the failing instruction but within X'1000' of this address. This register is the base register, which you use to find the beginning of the failing CSECT in the dump. At offset 5 in the failing CSECT, you will find a module identification that contains the name of the failing CSECT and the compilation date of this CSECT.

5. Record the name and compilation date of the failing CSECT. Calculate and record the offset of the failing instruction in the failing CSECT.
6. Locate the save-area trace information in the dump. You should be able to find a line containing `AT EP entry-point-name` in the save-area trace. The entry-point-name is the module identification of the failing CSECT. The first word on the same line is the name of the failing load module.
7. Record the name of the failing load module.
8. Compile the required information described in [Information needed for all problems on page 36](#).

IBM Z Workload Scheduler abend codes are listed in [Abend codes on page 777](#).



**Note:** This procedure does not apply to the end-to-end server address space when the failing module is a USS process.

## The diagnostic file (EQQDUMP)

When IBM Z Workload Scheduler internal validity checking discovers error conditions within the network communication function, debugging information is written to the IBM Z Workload Scheduler diagnostic file (defined by ddname EQQDUMP). For serious error conditions, IBM Z Workload Scheduler abends with user code 3999 as well.

The diagnostic information consists of message EQQ0000T, which gives the name of the module in error and the reason for the error, in two 8-byte character strings. IBM Z Workload Scheduler also writes a formatted version of the trace table to the diagnostic file. In most situations, IBM Z Workload Scheduler will also “snap” the data that it considers to be in error.

## Trace information

IBM Z Workload Scheduler maintains an internal trace to make it possible to see the order that its modules have been invoked in prior to an abend. The trace is wraparound with an end mark after the last trace entry added. Each entry consists of two 8-byte character fields: the module name field and the reason field. The end mark consists of a string of 16 asterisks (X'5C'). For most abnormal terminations, a trace table is written in the diagnostic file (EQQDUMP). These trace entries are intended to be used by the staff when they are diagnosing IBM Z Workload Scheduler problems.

A trace entry with reason PROLOG is added on entry to the module. Similarly, an entry with EPILOG is added at exit from the module. When trace entries are added for other reasons, the reason is provided in the reason field. When the dump is online, in machine readable format, the trace table can normally be found by scanning the dump and searching for the strings PROLOG or EPILOG. There are several trace tables in the dump; one for each IBM Z Workload Scheduler task.

Alternatively, the address of the trace table, and its end mark, can be found in the IBM Z Workload Scheduler BIB block. This block is found via register 13 in a dump.

- If the dump was produced by a user abend (3900 or 3999), the address of the BIB is found by looking at offset X'4' of the area that register 13 points to. This offset contains a pointer to another area where the address of the BIB is found at offset X'48'. The BIB block is easy to identify because its first characters hold the string BIB.
- If the dump was produced by any other abend, register 13 points directly to an area where the address of the BIB is found at offset X'48'.

The address of the trace table is found at offset X'440' in the BIB, and the address of the end mark of the trace is found at offset X'448'.

## Documentation (DOC) procedure

If your problem is related to IBM Z Workload Scheduler documentation, perform the following steps:

1. Identify the order number of the manual that contains the inaccurate information. The order number appears on the back cover of the manual in the form xxxx-xxxx-yy, where yy is a 2-digit revision code. Be sure to include the revision code if it appears.

Technical newsletters (TNLs) are issued for some manuals. TNLs consist of updated pages for a manual. If you are reporting inaccurate information contained in a TNL, identify the TNL number. You will find this number, in the form xxxx-xxxx, at the top of any page in the TNL.

2. Indicate the page or pages in the document that contain the incorrect or incomplete information.
3. Prepare a description of the problem that was caused by the incorrect or incomplete information.
4. Gather the required documentation described in [Information needed for all problems on page 36](#).

## Incorrect output (INCORROUT) procedure

If your problem concerns incorrect output, perform the following steps:

1. Specify which output is incorrect.
2. Specify how the output differs from what was expected:
  - Is all or part of the output missing?
  - Is the output duplicated?
  - Is there more output than expected?
  - Is the output incorrect?



**Note:** Sometimes problems with other licensed programs or an exit can generate incorrect output.

3. Compile the required documentation described in [Information needed for all problems on page 36](#).

## LOOP procedure

If your problem type is LOOP, perform the following steps:

1. Use the IBM Z Workload Scheduler message log or system console log to help you identify what happened just before the program loop occurred.
2. Obtain a dump, using the z/OS® DUMP command. If the dump options do not include RGN and GRSQ, then both options should be specified as SDATA values on the DUMP command.
3. Document instruction addresses from within the loop, if possible.
4. Provide a description of the situation leading up to the problem.
5. Gather the required documentation described in [Information needed for all problems on page 36](#).

## Message (MSG) procedure

If your IBM Z Workload Scheduler problem type is MSG, perform the following steps:

1. Look up the message in *Messages and Codes* for an explanation. This manual includes information on what action IBM Workload Scheduler takes and what action the operator should take in response to a message. If you plan to report the problem, gather the documentation before you take action.
2. Copy the message identifier and the message text. The Support Center representative needs the exact message text.
3. Supplement the MSG keyword with the message identifier. You use the supplemented keyword in your keyword string when searching the software support database. The keyword format can be one of the following:

**MSGEQQFnnnC**

**MSGEQQFFnnnC**

**MSGEQQnnnnnC.**

The variable components represent:

**F or FF**

The IBM Z Workload Scheduler component that issued the message

**nn, nnn, or nnnn**

The message number, from 000 to 999

**C**

A severity code of I (information), W (warning), or E (error).

Message-number examples

EQQW002E

EQQSU21E

EQQ0370W

4. Compile the required documentation described in [Information needed for all problems on page 36](#).

## Performance (PERFM) procedure

If your problem concerns performance, perform the following steps:

1. Check that all the parameters have been set as described in the section about how tuning the controller and tracker of *Customization and Tuning*.
2. Document the actual performance, the expected performance, and the source of information for the expected performance. If a document is the source, note the order number and page number of the document.
3. Document the information about your operating environment, such as:
  - The number of active initiators, number of TSO users, and number of IBM Z Workload Scheduler users connected.
  - Other licensed programs that are active in your environment.
  - Any user modifications to the program. Exits, REXX programs, and command lists can affect performance. You should consider whether the user-installed code, REXX programs, or CLISTs are contributing to the problem.
4. If you are using the end-to-end feature, document the network topology.
5. Document any modifications to your system. Performance problems can be related to various system limitations. Your market division representative might be able to identify possible causes of a performance problem.
6. Compile the required documentation described in [Information needed for all problems on page 36](#).
7. Obtain a dump, using the z/OS® DUMP command.

## WAIT procedure

If your problem type is WAIT, perform the following steps:

1. Research the activity before the system activity was suspended, identifying any operations that are in the wait state.
2. Specify any messages that were sent to the IBM Z Workload Scheduler message log or to the system console.
3. Obtain a dump by using the z/OS® DUMP command. If the dump options do not include RGN and GRSQ, then specify both options as SDATA values on the DUMP command. Format the trace table contained in the dump, and determine which task issued the WAIT.



Alternatively, determine the module in which the WAIT occurred by locating the address of the last instruction that ran. This instruction should be a WAIT SVC (X'0A01'), otherwise perform further analysis to determine if the program is in a loop or if the code is running as expected:

- a. Record the name and the compilation date of the module.
  - b. Record the offset into the module.
  - c. Provide a description of the situation leading up to the problem.
4. Collect the required documentation, as described in [Information needed for all problems on page 36](#).

## Procedure to resolve event-reapplying problems at controller startup

When the controller starts and a current plan already exists, you must ensure that no JT events were lost while the controller was stopped. JTOPTS CURRPLAN is the statement used by the controller to determine from which current plan to start. You can set it to one of the following values:

- Set CURRPLAN(NEW) to start from the latest valid new current plan (NCP) and apply all the events logged in EQQJTARC and in the current EQQJTxx.
- OR -
- Set CURRPLAN(CURRENT) to start from the inactive current plan and apply the events logged in EQQJTxx with a date and time later than the inactive current plan backup.



**Note:** For detailed information about the JTOPTS statement, see *Customization and Tuning*.

However, if you set the CURRPLAN(CURRENT) option and the controller finds some inconsistencies, the option is not applied and you are requested to set CURRPLAN(NEW). The restarting process then runs based on the checkpoint data set EQQCKPT, which contains information about the current status of IBM® Z Workload Scheduler.

If problems occur during the restart, you can understand what went wrong by analyzing the initial values stored in the current plan VSAM headers, checkpoint data set, and job-tracking files. This data, however, might have changed or been lost during the restarting process and be difficult to reproduce. To prevent this problem, IBM® Z Workload Scheduler logs the following messages and provides you with the following modify command:

- Message EQQN140I, to show the checkpoint data set content at controller startup and stop.
- Message EQQN141I, to show the checkpoint data set content when the restart processing begins.
- Modify command `/F subsys, DCKPT` to show the checkpoint data set header.

The following scenario describes how these messages and command help you to understand what happened when the controller restarts.

### Understanding the restarting process

The following scenario describes how you can use EQQMLOG and modify command `/F subsys, DCKPT` to understand what happens when the controller restarts. Suppose that you:

1. Start the controller after a REFRESH function. EQQMLOG stores message EQQN140I to show the checkpoint data set header at startup. The value for PLAN EXISTING is N, meaning that a current plan does not exist (because the restart occurred after a REFRESH).



**Note:** In this scenario JTOPTS is set to CURRPLAN(CURRENT).

```
...
03/20 17.16.22 EQQZ015I INIT STATEMENT:          CURRPLAN(CURRENT)
....
03/20 17.16.22 EQQN140I CKPT FILE AT START TIME
03/20 17.16.22 EQQN140I -----
03/20 17.16.22 EQQN140I CKPT FILE JUST INITIALIZED: N
03/20 17.16.22 EQQN140I BACKUP IN PROGRESS       : N
03/20 17.16.22 EQQN140I INACTIVE PLAN DATA SET   : EQQCP2DS
03/20 17.16.22 EQQN140I CURRENT JT NUMBER        : 05
03/20 17.16.22 EQQN140I LAST ARCHIVED JT NUMBER   : 04
03/20 17.16.22 EQQN140I PLAN EXISTING             : N
03/20 17.16.22 EQQN140I ACTIONS ON NCP           : NO ACTIONS NEEDED
03/20 17.16.22 EQQN140I -----
```

Because a current plan does not exist, the following message EQQN141I does not provide information that is useful for the controller restarting decision.

```
03/20 17.16.24 EQQN141I CKPT DATA AFTER RESTART DECISION
03/20 17.16.24 EQQN141I -----
03/20 17.16.24 EQQN141I INACTIVE PLAN DATA SET   : EQQCP2DS
03/20 17.16.24 EQQN141I OCP LAST BACKUP TIMESTAMP :
03/20 17.16.24 EQQN141I USED LAST BACKUP TIMESTAMP :
03/20 17.16.24 EQQN141I EVENTS FOUND             : N
03/20 17.16.24 EQQN141I JTARC MAY BE TRUNCATED    : N
03/20 17.16.24 EQQN141I SYMPHONY CURRENT RUN NUMBER : 0000
03/20 17.16.24 EQQN141I -----
```

Message EQQN105W provides you with even more detailed information:

```
03/20 17.16.24 EQQN105W NO VALID CURRENT PLAN EXISTS. CURRENT PLAN VSAM
I/O IS NOT POSSIBLE
```

Message EQQN012I informs you that, as soon as you create a plan, all job-tracking events will be stored in file EQQJT05 (this is the JT number 05 shown in the previous message EQQN140I):

```
03/20 17.16.24 EQQN012I JOB TRACKING EVENTS ARE NOW BEING LOGGED ON FILE
EQQJT05
```

To look at the entire content of the checkpoint data set, enter the following modify command:

```
/F subsys, DCKPT
```

```
EQQZ024I LAST CKPT HEADER GET/PUT
EQQZ024I START ADDRESS: 0007FF68 TIME: 130320 1716488
EQQZ024I 000000 F0F0F0F0 F0F0F0F0 F0F00000 00000000 *0000000000...*
EQQZ024I 000010 00004040 40404040 40404040 C5D8D8C3 *.. E*
EQQZ024I 000020 D7F1C4E2 C5D8D8C3 D7F2C4E2 F0F5F0F4 *P1DSEQQCP2DS0*
EQQZ024I 000030 F0F5D500 00000000 00000000 D5D5D5C5 *05N.....N*
```

```

EQQZ024I      000040  D8D8D1E2 F1C4E2D5 F1F0C8E6 E2F9F1F0  *QQJS1DSN10HWS*
EQQZ024I      000050  F040D500 00000000 404040D6 00640000  *0 N..... O.*
EQQZ024I      000060  00000000 00000000                      *..... *
EQQZ048I A MODIFY COMMAND HAS BEEN PROCESSED. MODIFY CWSG,DCKPT

```



**Note:** The layout is mapped by the [OPC - OPCSTAT record on page 603](#).

2. Create a new current plan by running a DP batch. EQQMLOG records that a new current plan (NCP) is created, named EQQCP2DS. The inactive plan is EQQCP1DS, the current job-tracking file is EQQJT01, and EQQJT05 was archived in EQQJTARC.

```

03/20 17.29.27 EQQN121I A DAILY PLANNING ACTIVITY WAS STARTED
03/20 17.29.57 EQQN120I DP BATCH NCP CREATION PHASE ENDED
03/20 17.29.57 EQQN116I A NEW NCP HAS BEEN CREATED
...
03/20 17.29.58 EQQN056I A CURRENT PLAN COPY PROCESS HAS STARTED
03/20 17.29.58 EQQN057I A CURRENT PLAN DATA SET WAS SUCCESSFULLY COPIED:
FROMDD=EQQNCPDS, TODD=EQQCP1DS
...
03/20 17.29.59 EQQN051I A CURRENT PLAN BACKUP PROCESS HAS STARTED.
TRIGGER WAS: DP END
...
03/20 17.30.00 EQQN012I JOB TRACKING EVENTS ARE NOW BEING LOGGED ON FILE
EQQJT01
...
03/20 17.30.04 EQQN056I A CURRENT PLAN COPY PROCESS HAS STARTED
03/20 17.30.05 EQQN057I A CURRENT PLAN DATA SET WAS SUCCESSFULLY COPIED:
FROMDD=EQQCP1DS, TODD=EQQCP2DS

03/20 17.30.05 EQQN090I THE JOB TRACKING LOG DATA SET DEFINED BY DDNAME
EQQJT05 HAS BEEN COPIED TO THE JOB TRACKING LOG ARCHIVE
DATA SET

```

3. Stop the controller by using the `/P subsys` command. EQQMLOG shows the following messages:

```

03/20 18.09.08 EQQZ000I A STOP COMMAND HAS BEEN RECEIVED
...
03/20 18.09.14 EQQN051I A CURRENT PLAN BACKUP PROCESS HAS STARTED.
TRIGGER WAS: NMM END

```

Before closing, the controller creates a current plan backup. EQQMLOG shows you the checkpoint data set information recorded *before* the CP backup, as follows:

```

03/20 18.09.14 EQQN140I CKPT FILE AT NMM ENDING: BACKUP
03/20 18.09.14 EQQN140I -----
03/20 18.09.14 EQQN140I CKPT FILE JUST INITIALIZED: N
03/20 18.09.14 EQQN140I BACKUP IN PROGRESS          : N
03/20 18.09.14 EQQN140I INACTIVE PLAN DATA SET     : EQQCP1DS
03/20 18.09.14 EQQN140I CURRENT JT NUMBER          : 01
03/20 18.09.14 EQQN140I LAST ARCHIVED JT NUMBER     : 05
03/20 18.09.14 EQQN140I PLAN EXISTING               : Y
03/20 18.09.14 EQQN140I ACTIONS ON NCP              : NO ACTIONS NEEDED
03/20 18.09.14 EQQN140I -----

03/20 18.09.19 EQQN056I A CURRENT PLAN COPY PROCESS HAS STARTED
03/20 18.09.19 EQQN057I A CURRENT PLAN DATA SET WAS SUCCESSFULLY COPIED:

```

```

FROMDD=EQQCP2DS, TODD=EQQCP1DS
03/20 18.09.19 EQQN090I THE JOB TRACKING LOG DATA SET DEFINED BY DDNAME
EQQJT01 HAS BEEN COPIED TO THE JOB TRACKING LOG ARCHIVE
DATA SET

```

After the CP backup completes, the checkpoint data set information is updated. EQQMLOG shows that the JT data set was archived, the inactive plan is EQQCP2DS, the current JT data set has become EQQJT02, and the latest archived JT data set is EQQJT01. For more detailed information about the archiving process, see [Job-tracking-log archiver \(JL\) on page 80](#).

```

03/20 18.09.19 EQQN090I COPIED TO THE JOB TRACKING LOG ARCHIVE DATA SET
03/20 18.09.19 EQQN140I CKPT FILE AT NMM ENDING: LOG ARCHIVE
03/20 18.09.19 EQQN140I -----
03/20 18.09.19 EQQN140I CKPT FILE JUST INITIALIZED: N
03/20 18.09.19 EQQN140I BACKUP IN PROGRESS      : N
03/20 18.09.19 EQQN140I INACTIVE PLAN DATA SET : EQQCP2DS
03/20 18.09.19 EQQN140I CURRENT JT NUMBER      : 02
03/20 18.09.19 EQQN140I LAST ARCHIVED JT NUMBER : 01
03/20 18.09.19 EQQN140I PLAN EXISTING          : Y
03/20 18.09.19 EQQN140I ACTIONS ON NCP         : NO ACTIONS NEEDED
03/20 18.09.19 EQQN140I -----

```

- Restart the controller. Message EQQN140I shows exactly the same information that was recorded in the latest run.

```

03/20 19.53.55 EQQZ015I INIT STATEMENT:      CURRPLAN(CURRENT)
...
03/20 19.53.55 EQQN140I CKPT FILE AT START TIME
03/20 19.53.55 EQQN140I -----
03/20 19.53.55 EQQN140I CKPT FILE JUST INITIALIZED: N
03/20 19.53.55 EQQN140I BACKUP IN PROGRESS      : N
03/20 19.53.55 EQQN140I INACTIVE PLAN DATA SET : EQQCP2DS
03/20 19.53.55 EQQN140I CURRENT JT NUMBER      : 02
03/20 19.53.55 EQQN140I LAST ARCHIVED JT NUMBER : 01
03/20 19.53.55 EQQN140I PLAN EXISTING          : Y
03/20 19.53.55 EQQN140I ACTIONS ON NCP         : NO ACTIONS NEEDED
03/20 19.53.55 EQQN140I -----
...
03/20 19.53.56 EQQN141I CKPT DATA AFTER RESTART DECISION
03/20 19.53.56 EQQN141I -----
03/20 19.53.56 EQQN141I INACTIVE PLAN DATA SET : EQQCP2DS
03/20 19.53.56 EQQN141I OCP LAST BACKUP TIMESTAMP : 130320/17091869
03/20 19.53.56 EQQN141I USED LAST BACKUP TIMESTAMP : 130320/17091869
03/20 19.53.56 EQQN141I EVENTS FOUND           : N
03/20 19.53.56 EQQN141I JTARC MAY BE TRUNCATED   : N
03/20 19.53.56 EQQN141I SYMPHONY CURRENT RUN NUMBER : 0000
03/20 19.53.56 EQQN141I -----
...

```

Suppose that the controller runs one day and performs all the jobs scheduled in the CP and then you run a CP backup. EQQMLOG shows that the inactive plan is now EQQCP1DS and the latest archived JT data set is EQQJT02.

```

03/21 15.48.50 EQQN051I A CURRENT PLAN BACKUP PROCESS HAS STARTED.
TRIGGER WAS: BACKUP CMD
03/21 15.48.50 EQQN012I JOB TRACKING EVENTS ARE NOW BEING LOGGED ON FILE
EQQJT03
03/21 15.48.53 EQQN056I A CURRENT PLAN COPY PROCESS HAS STARTED
03/21 15.48.53 EQQN057I A CURRENT PLAN DATA SET WAS SUCCESSFULLY COPIED:
FROMDD=EQQCP1DS, TODD=EQQCP2DS

```

```
03/21 15.48.54 EQQN090I THE JOB TRACKING LOG DATA SET DEFINED BY DDNAME
                EQQJT02 HAS BEEN COPIED TO THE JOB TRACKING LOG ARCHIVE
                DATA SET
```

You can verify this information also by issuing the modify command `/F subsys,DCKPT`:

```
EQQZ024I LAST CKPT HEADER GET/PUT
EQQZ024I      START ADDRESS: 0007FF68                TIME: 130321 1552432
EQQZ024I      000000  F0F0F0F0 F0F0F0F0 F0F00000 00000000 *0000000000...
EQQZ024I      000010  0000F4F1 F0F3F2F0 F2F4F0F0 C5D8D8C3 *..4103202400E
EQQZ024I      000020  D7F2C4E2 C5D8D8C3 D7F1C4E2 F0F3F0F2 *P2DSEQQCP1DS0
EQQZ024I      000030  F0F5D500 00000000 00000000 E8D5D5C5 *05N.....Y
EQQZ024I      000040  D8D8D1E2 F1C4E2D5 F1F0C8E6 E2F9F1F0 *QQJS1DSN10HWS
EQQZ024I      000050  F040D500 00000000 404040D6 00640000 *0 N..... O.
EQQZ024I      000060  00000000 00000000                *.....
EQQZ048I A MODIFY COMMAND HAS BEEN PROCESSED. MODIFY CWSG,DCKPT
```

5. As you continue to work, you add new occurrences to the plan. You then force the controller to immediately stop with a CANCEL function.
6. When you restart the controller, EQQMLOG shows you that the inactive plan is EQQCP1DS and the latest archived JT data set is EQQJT02:

```
03/21 15.55.46 EQQN140I CKPT FILE AT START TIME
03/21 15.55.46 EQQN140I -----
03/21 15.55.46 EQQN140I CKPT FILE JUST INITIALIZED: N
03/21 15.55.46 EQQN140I BACKUP IN PROGRESS           : N
03/21 15.55.46 EQQN140I INACTIVE PLAN DATA SET      : EQQCP1DS
03/21 15.55.46 EQQN140I CURRENT JT NUMBER           : 03
03/21 15.55.46 EQQN140I LAST ARCHIVED JT NUMBER      : 02
03/21 15.55.46 EQQN140I PLAN EXISTING                : Y
03/21 15.55.46 EQQN140I ACTIONS ON NCP              : NO ACTIONS NEEDED
03/21 15.55.46 EQQN140I -----
```

The controller uses the information shown in message EQQN141I to decide how to restore a correct current plan. The inactive plan EQQCP1DS is used as the start plan and the events stored in EQQJT03 after the backup date and time 130321/13485048 are applied. The following messages are recorded to show that the inactive plan EQQCP1DS is copied to EQQCP2DS:

```
03/21 15.55.49 EQQN056I A CURRENT PLAN COPY PROCESS HAS STARTED
03/21 15.55.49 EQQN057I A CURRENT PLAN DATA SET WAS SUCCESSFULLY COPIED:
                FROMDD=EQQCP1DS, TODD=EQQCP2DS
```

The following messages show that EQQJT03 is used to update the plan before archiving it, EQQJT04 becomes the current JT data set, and EQQCP1DS becomes the current plan after the CP backup completes. You are also shown that the catch-up process identified and applied all the events required to restore a correct plan:

```
03/21 15.55.50 EQQN058I THE SCHEDULER WILL RECOVER THE CP DATA SET FROM
                THE JTLOGS
03/21 15.55.50 EQQN058I PLEASE BE PATIENT. THIS WILL TAKE A WHILE
03/21 15.55.50 EQQN014I THE JOB TRACKING LOG DATA SET, DDNAME EQQJT03 ,
                HAS BEEN USED TO UPDATE THE CURRENT PLAN.
                2 EVENTS HAVE BEEN APPLIED TO DD-NAME EQQCP2DS
03/21 15.55.50 EQQN051I A CURRENT PLAN BACKUP PROCESS HAS STARTED.
                TRIGGER WAS: CATCH UP
03/21 15.55.53 EQQN056I A CURRENT PLAN COPY PROCESS HAS STARTED
03/21 15.55.54 EQQN057I A CURRENT PLAN DATA SET WAS SUCCESSFULLY COPIED:
                FROMDD=EQQCP2DS, TODD=EQQCP1DS
```

```
03/21 15.55.54 EQQN012I JOB TRACKING EVENTS ARE NOW BEING LOGGED ON FILE
EQQJT04
03/21 15.55.54 EQQN013I JOB TRACKING IS NOW ACTIVE AND CURRENT PLAN
DD-NAME IS EQQCP1DS
```

## Description of messages EQQN140 and EQQN141

Messages EQQN140 and EQQN141 are informational. EQQN140 is issued at controller startup and stop, and shows the following information:

```
CKPT FILE AT: &phase
-----
CKPT FILE JUST INITIALIZED: &NEWCKPT
BACKUP IN PROGRESS      : &BACKUP
INACTIVE PLAN DATA SET : &OLDCP
CURRENT JT NUMBER      : &CURRJT
LAST ARCHIVED JT NUMBER : &LASTJT
PLAN EXISTING          : &VALCP
ACTIONS ON NCP         : &NCPSTAT
-----
```

Where:

### CKPT FILE AT

It can be one of the following values:

#### START TIME

Controller has just started.

#### NMM ENDING: BACKUP

Controller is stopping and the current plan is being backed up.

#### NMM ENDING: LOG ARCHIVE

Controller is stopping, the current plan is backed up, and the latest JT data set is archived.

### CKPT FILE JUST INITIALIZED

It can be one Y or N. Y means that the checkpoint data set has just been initialized with the default values. This might occur the first time that the controller starts, when the checkpoint data set is empty.

### BACKUP IN PROGRESS

It can be Y or N. Y means that when the controller was stopped, a backup plan was in progress, therefore the controller could not complete switching the CP and JT data set.

### INACTIVE PLAN DATA SET

The DD name of the inactive plan (the old current plan).

### CURRENT JT NUMBER

The name of the current JT data set.

### LAST ARCHIVED JT NUMBER

The name of the latest archived JT data set.

**PLAN EXISTING**

It can be Y or N. Y means that a current plan exists.

**ACTION ON NCP**

The status related to the creation of CP. Possible values are:

**NCP TO BE USED AS CURRENT PLAN**

The new current plan is to be used by the controller as the current plan.

**NCP UNDER CREATION, DP BATCH IS WORKING ON IT**

A DP batch command is running to create a new plan.

**NO ACTIONS NEEDED**

No action to be done on the NCP.

EQQN141 is issued after the restarting decision was taken and shows the following information:

```
CKPT DATA &phase
-----
INACTIVE PLAN DATA SET      : &OLDCP
OCP LAST BACKUP TIMESTAMP   : &DTCP
USED LAST BACKUP TIMESTAMP   : &DTUS
EVENTS FOUND                 : &EVENT
JTARC MAY BE TRUNCATED       : &JTARCT
SYMPHONY CURRENT RUN NUMBER : &SYMPHN
-----
```

Where:

**CKPT DATA**

It always has the value AFTER RESTART DECISION.

**INACTIVE PLAN DATA SET**

The DD name of the inactive plan (the old current plan).

**OCP LAST BACKUP TIMESTAMP**

Date and time of the latest backup in the inactive CP data set.

**USED LAST BACKUP TIMESTAMP**

Date and time that the latest backup was actually used. Normally it is the same as OCP LAST BACKUP TIMESTAMP. However, if a backup was in progress at stop time and the backup is not reliable, the controller considers the date and time of the first event in the current JT data set as the latest backup. This date is used to decide which events are to be applied.

**EVENTS FOUND**

Events to be applied are found in the JT data set.

**JTARC MAY BE TRUNCATED**

It can be Y or N. Y means that the latest archived JT data set was not complete and that data might have been lost.

## SYMPHONY CURRENT RUN NUMBER

If a Symphony plan exists, it indicates its current number.

## Information needed for all problems

Even when you are unable to identify a problem type, you should gather the following information for any problem you have. Begin your initial problem analysis by examining the contents of the message log data set. Record relevant information on a copy of the IBM Z Workload Scheduler problem description sheet provided in [Problem description sheet on page 784](#).

1. Obtain a copy of the IBM Z Workload Scheduler message log. This is a sequential data set defined by the EQQMLOG ddname.
2. Record the IBM Z Workload Scheduler component ID: 5698-T08. The component ID should be the *first* keyword in the string preceding the problem type and other modifier keywords.
3. Record the maintenance level for all operating environments, particularly those for z/OS, JES, ISPF, and RACF®.
4. Document any additional program temporary fixes (PTFs) or APARs that have been applied to your level of IBM Z Workload Scheduler.
5. If the problem is within the network communication function, obtain copies of the IBM Z Workload Scheduler EQQDUMP file.
6. Obtain copies of the IBM Z Workload Scheduler diagnostic files defined to the user address space and to the subsystem address space by SYSMDUMP.
7. Obtain a copy of the system log.
8. If the problem involves end-to-end scheduling, obtain a copy of the work directory in the following way:
  - a. Identify the work directory. To do this, read in the configuration parameter the value of the WRKDIR keyword of the TOPOLOGY statement.
  - b. Create a tar file of the work directory. To do this:
    - i. Logon on a USS shell (using OMVS or telnet).
    - ii. Assure that you are running with uid 0 (use the *id* command to see your uid). If you are authorized to the BPX.SUPERUSER RACF® facility class, issue the *su* command to obtain uid 0.
    - iii. Create the tar file by entering this command:
 

```
tar cvzf tarfilename workdirectory
```
  - c. Collect TWSIN and TWSOU.
  - d. Collect the topology information in the PARMLIB library (DD name EQPPARM).
9. Reconstruct the sequence of events leading to the problem. Include any commands entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
10. Specify any unique information about the problem or about your system:



- a. Indicate any other applications that were running when the problem occurred.
- b. Describe how IBM Z Workload Scheduler was started.
- c. Describe all user modifications to active IBM Z Workload Scheduler programs.

If more information is needed, an IBM® Support Center representative will guide you concerning any additional diagnostic traces that you can run.

For information about diagnosing problems with the APPC subtask, see [APPC \(PP\) on page 69](#).

## Information to collect for OCL problems

Information to collect when you encounter OCL problems

If you receive an error message related to OCL, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events leading up to the problem. Include any commands entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
2. Obtain a copy of the OCL job log.
  3. Collect a SLIP dump for the message.
  4. Collect the PIF trace.
  5. Indicate any other applications that were running when the problem occurred.

## Information to collect for restart and cleanup problems

Information to collect when you encounter restart and clean up problems

If you receive an error message related to restart and cleanup problems, gather the following information:

1. Reconstruct the sequence of events leading up to the problem. Include any commands entered just before the problem occurred. Write down the exact events that lead to the problem:
  - a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
2. Obtain a copy of the job log of the first job you submitted.
3. Obtain a copy of the restart and cleanup job log or of the stand-alone cleanup job log.
4. Obtain a copy of the controller MLOG.

5. Obtain a copy of the data store MLOG.
6. Obtain a copy of the unstructured data files.
7. Indicate any other applications that were running when the problem occurred.

## Information to collect for critical path problems

Information to collect when you encounter critical path problems

If you receive an error message related to critical path problems, gather the following information:

1. When possible, reconstruct the sequence of events that caused the problem. Include any commands entered just before the problem occurred.
  - a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
2. Before running the daily plan batch, collect an APAR tape including the new current plan and a console dump including data spaces as shown below:

```
DUMP COMM=(reason for taking dump)
R xx,JOBNAME=(ZZZZ),CONT
R xx,DSPNAME=('ZZZZ'.*),CONT
R xx,SDATA=(COUPLE,ALLNUC,LPA,LSQA,PSA,RGN,SQA,TRT,
CSA,GRSQ,XESDATA,WLM),END
```

where:

**xx**

Specify the replay number ID.

**ZZZZ**

Specify the name of the controller.

## Information to collect for JCL editing problems

Information to collect when you encounter JCL editing problems

If you receive an error message that is related to JCL editing, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events that caused the problem. Include any commands that you entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
- b. What were you trying to do?
- c. What should have happened?

- d. What did happen?
- e. Can you re-create the problem?
- 2. Obtain a copy of the controller MLOG.
- 3. Obtain a copy of the server MLOG.
- 4. Obtain a copy of the Joblib data set.

## Information to collect for migration problems

Information to collect when you encounter migration problems

If you receive an error message that is related to migration, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events that caused the problem. Include any commands that you entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
- b. What were you trying to do?
- c. What should have happened?
- d. What did happen?
- e. Can you re-create the problem?
- 2. Collect the JCL used to run the migration.
- 3. Collect the input data sets.
- 4. Collect the output data sets, if generated.
- 5. Collect the EQQDUMP data set.
- 6. Obtain a copy of the controller MLOG.

## Information to collect for application description problems

Information to collect when you encounter application description problems

If you receive an error message related to JCL, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events leading up to the problem. Include any commands entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
- b. What were you trying to do?
- c. What should have happened?
- d. What did happen?
- e. Can you re-create the problem?
- 2. Obtain a copy of the Application Description and Work Station (WS) cluster files.
- 3. Obtain a copy of the controller and server MLOGs.
- 4. Obtain a copy of the DUMP data set, if available.

## Information to collect for monitoring problems

Information to collect when you encounter monitoring problems

If you receive an error message related to JCL, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events that caused the problem. Include any commands that you entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
2. Obtain a copy of the monitoring data set.
  3. Obtain a copy of the controller MLOGs.
  4. Obtain a copy of the system log.
  5. Obtain a copy of the DUMP data set, if available.

## Information to collect for daily planning problems

Information to collect when you encounter daily planning problems

If you receive an error message related to daily planning, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events that caused the problem. Include any commands that you entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
2. Before running the daily plan batch, collect an APAR tape including the new current plan and a console dump including data spaces as shown below:

```
DUMP COMM=(reason for taking dump)
R xx,JOBNAME=(ZZZZ),CONT
R xx,DSPNAME=('ZZZZ'.*),CONT
R xx,SDATA=(COUPLE,ALLNUC,LPA,LSQA,PSA,RGN,SQA,TRT,
CSA,GRSQ,XESDATA,WLM),END
```

where:

**xx**

Specify the replay number ID.

**zzzz**

Specify the name of the controller.

## Information to collect for data store problems

Information to collect when you encounter daily planning problems

If you receive an error message related to data store, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events that caused the problem. Include any commands that you entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
2. Obtain the original joblog,
  3. Obtain the restart and cleanup joblog or the stand-alone cleanup joblog.
  4. Obtain a copy of the controller MLOGs, the data store MLOG.
  5. Obtain a copy of the UDF and SDF files.
  6. Obtain a copy of the EQQDUMP, if available.

## Information to collect for general service problems

Information to collect when you encounter general service problems

If you receive an error message related to data store, gather the following information, for any problem that you have.

1. Reconstruct the sequence of events that caused the problem. Include any commands that you entered just before the problem occurred.

Write down the exact events that lead to the problem:

- a. What was the first indication of the problem?
  - b. What were you trying to do?
  - c. What should have happened?
  - d. What did happen?
  - e. Can you re-create the problem?
2. Obtain a copy of the controller MLOGs.
  3. Collect the dump.
  4. Obtain a copy of the system log.

## Part II. Reference

This part describes the major components, data areas, and DB2 tables.

## Chapter 4. Functional description

This chapter describes the major components of IBM® Z Workload Scheduler and how they fit together. These components are described here:

- Dialogs
- Description databases
- Data sets for planning, tracking, and recovery
- Batch programs
- Subsystem
- Task structure
- Subtasks.

### IBM Z Workload Scheduler dialogs

Most users of IBM Z Workload Scheduler functions use interactive system productivity facility (ISPF) panels to communicate with the product. These panels are referred to as *IBM Z Workload Scheduler dialogs*. Each dialog user is also a z/OS TSO user executing in a separate address space, or in a different z/OS® system.

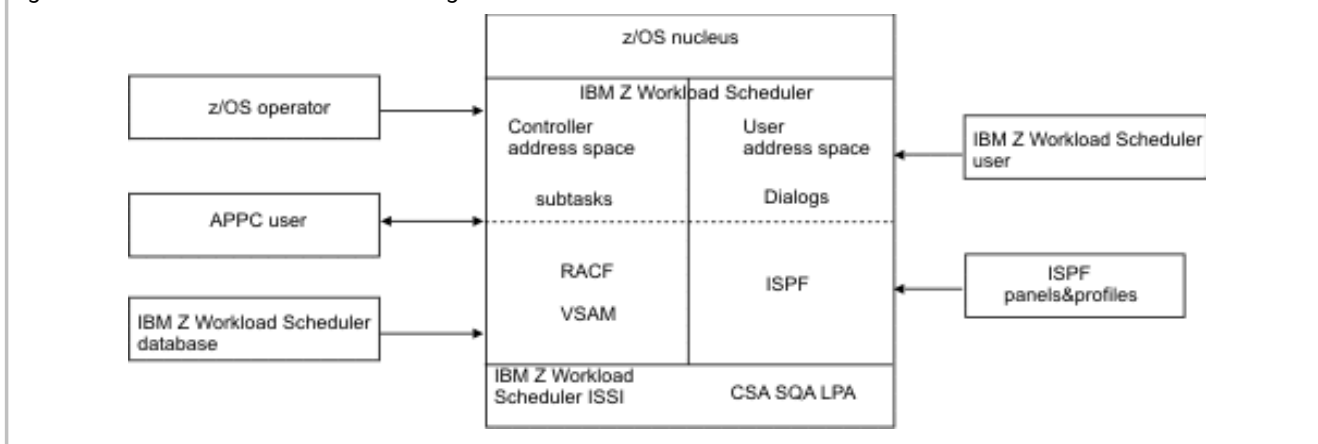
The dialogs frequently require support from the IBM Z Workload Scheduler subsystem. IBM Z Workload Scheduler is a started task that must be active to run the dialogs. The z/OS subsystem interface (SSI) is used to pass requests from the user to IBM Z Workload Scheduler. To process the request, this subsystem interface invokes a routine residing in common storage. If the dialogs are executed in a different z/OS® system, the requests will be sent to an IBM Z Workload Scheduler server on an APPC or TCP/IP session. The server will then forward the requests to the IBM Z Workload Scheduler subsystem via the z/OS® SSI.

Before performing any function requested by a user, the IBM Z Workload Scheduler dialog function uses the system authorization facility (SAF) interface to pass the request to RACF® (or a functionally equivalent security package). RACF® verifies that the user is authorized to access the resources needed to run the current function. The z/OS router service calls RACF® to perform this authority check if RACF® is installed and active in the z/OS system. A typical request for service from an IBM Z Workload Scheduler dialog to the IBM Z Workload Scheduler subsystem is to access a set of database records (for example, application description records). The databases, as well as the planning data sets, are maintained and controlled by the started task.

A summary of the system components and interfaces used by IBM Z Workload Scheduler dialogs is provided in [Figure 1: IBM Z Workload Scheduler dialog structure on page 44](#).

#### Example

Figure 1. IBM Z Workload Scheduler dialog structure



## ISPF tables

The IBM Z Workload Scheduler dialogs use a number of resident ISPF tables:

### ***pref*ACMDS**

Is the ISPF command table. The prefix *pref* is the name of the current ISPF application. You can specify this as a value on the NEWAPPL keyword when starting the application.

### ***pref*AXMDL**

Is used to hold information about the dynamic ISPF data tables used in the dialogs (that is, the data tables that are created and deleted during the dialog processing). Typical information includes the table sort order, which resides here from one usage of the dialog to the next. The prefix *pref* is the name of the current ISPF application. You can specify this as a value on the NEWAPPL keyword when starting the application.

### **EQQELDEF**

Contains the ended-in-error-list default layouts.

### **EQQEVERT**

Contains definitions of ended-in-error-list layout variables.

### **EQQLUDEF**

Contains the list of subsystem names and associated LU names that the IBM Z Workload Scheduler dialogs user can connect to.

### **EQQRLDEF**

Contains definitions of the ready list layouts. The layouts in this table cannot be modified or deleted in the WORKSTATION COMMUNICATION dialog.

### **EQQRLOUT**

Contains definitions of the ready list layouts. The layouts in this table can be modified and deleted in the WORKSTATION COMMUNICATION dialog. New ready-list layouts created by a user are held in this table.



**EQQXVART**

Contains definitions of the ISPF data tables used in the dialogs.

## IBM Z Workload Scheduler data

IBM Z Workload Scheduler requires data about your installation environment and the work that is to be processed. It keeps this information in description databases. IBM Z Workload Scheduler also maintains a number of other data sets for planning, tracking, and recovery purposes. Another set of data is that managed by the Data Store. IBM Z Workload Scheduler data resources are described in this section.

## Description databases

The basic data that IBM Z Workload Scheduler uses comes from the description databases. These are listed in [Table 1: IBM Z Workload Scheduler description databases on page 45](#).

**Table 1. IBM Z Workload Scheduler description databases**

| Database                     | Physical<br>VSAM data set | DD name |
|------------------------------|---------------------------|---------|
| Application description      | AD                        | EQQADDS |
| Calendar                     | WS                        | EQQWSDS |
| Job descriptions             | AD                        | EQQADDS |
| Operator instruction         | OI                        | EQQOIDS |
| Period                       | WS                        | EQQWSDS |
| Special resource description | RD                        | EQQRDDS |
| Side information             | SI                        | EQQSIDS |
| Variable table               | AD                        | EQQADDS |
| Workstation description      | WS                        | EQQWSDS |

## Application Description Database

The application description (AD) database contains application descriptions, which consist of:

- A general part
- A part for each run cycle (except for members of an application group)
- A part for each operation (except for group definitions).

## Calendar database

The calendar (CAL) database contains data about workdays and free days for work processing.

## Job descriptions database

The job descriptions database contains special applications containing a single processing operation.

## Operator instruction database

The operator instruction (OI) database contains operator instructions, each of which corresponds to an operation in the AD database.

## Period database

The period database contains data used to define run cycles for applications.

## Special resources database

The special resources database contains details about individual elements in your installation that you want to identify for scheduling purposes. For example, data sets or tape drives.

## Side information database

The side information database contains event-triggered-tracking (ETT) criteria, which are used to add occurrences to the current plan based on triggering events, and configuration information.

## Variable table database

The variable table database contains JCL variable definitions, which are grouped into tables. You can associate a variable table with a period, in the period database.

## Workstation description database

The workstation description database contains information about the different workstations at the installation.

## Data sets used for planning, tracking, and recovery

IBM Z Workload Scheduler maintains two plans, the *long-term plan* and the *current plan*. The event-tracking functions collect status information about the work in progress, store this information in event data sets, and amend the current plan to reflect the status of operations. These planning and event data sets, as well as the data sets that are used for recovery, are described here.

When the end-to-end scheduling with fault tolerance capabilities feature is installed, IBM Z Workload Scheduler maintains the following additional data sets:

- Input events data set (EQQTWSIN)
- Output events data set (EQQTWSOU)
- Script library (EQQSCLIB)
- Current® plan backup (EQQSCPDS)
- Centralized script data set (EQQTWSCS)

For details, see [Tasks and data sets used for end-to-end scheduling with fault tolerance capabilities on page 51](#).

Every IBM Z Workload Scheduler address space that uses the Restart and Clean up feature requires the allocation of a local VSAM repository for the structured information related to each job run.

**Table 2. IBM Z Workload Scheduler planning, tracking, and recovery resources**

| Resource                                                                                | Physical data sets                                                                                                                                                                                                                                                                                                                                                          | DD name                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Checkpoint data set                                                                     | Checkpoint data set                                                                                                                                                                                                                                                                                                                                                         | EQQCKPT                                                                                                                                                                                                                     |
| Current® plan                                                                           | <ul style="list-style-type: none"> <li>• Primary current plan</li> <li>• Alternate current plan</li> <li>• New current plan</li> <li>• New current plan extension</li> <li>• Current plan extension</li> <li>• Current plan backup for the creation of Symphony</li> <li>• Primary extended data</li> <li>• Alternate extended data</li> <li>• New extended data</li> </ul> | <ul style="list-style-type: none"> <li>• EQQCP1DS</li> <li>• EQQCP2DS</li> <li>• EQQNCPDS</li> <li>• EQQNCXDS</li> <li>• EQQCXDS</li> <li>• EQQSCPDS</li> <li>• EQQXD1DS</li> <li>• EQQXD2DS</li> <li>• EQQNXXDS</li> </ul> |
| Centralized script data set for end-to-end scheduling with fault tolerance capabilities | Centralized script                                                                                                                                                                                                                                                                                                                                                          | EQQTWSCS                                                                                                                                                                                                                    |
| Event data sets for end-to-end scheduling with fault tolerance capabilities             | <ul style="list-style-type: none"> <li>• Input events</li> <li>• Output events</li> </ul>                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• EQQTWSIN</li> <li>• EQQTWSOU</li> </ul>                                                                                                                                            |
| Script library for end-to-end scheduling with fault tolerance capabilities              | Script library                                                                                                                                                                                                                                                                                                                                                              | EQQSCLIB                                                                                                                                                                                                                    |
| Event data sets                                                                         | <ul style="list-style-type: none"> <li>• Event log</li> <li>• Event data set (01–16) for an event reader</li> </ul>                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• EQQEVDs</li> <li>• EQQEVDxx</li> </ul>                                                                                                                                             |
| JCL repository                                                                          | <ul style="list-style-type: none"> <li>• Primary JCL repository</li> <li>• Alternate JCL repository</li> </ul>                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>• EQQJS1DS</li> <li>• EQQJS2DS</li> </ul>                                                                                                                                            |
| Job library                                                                             | Partitioned data set for JCL                                                                                                                                                                                                                                                                                                                                                | EQQJBLIB                                                                                                                                                                                                                    |
| Job tracking                                                                            | <ul style="list-style-type: none"> <li>• Job-tracking log (maximum 99)</li> <li>• JT archive data set</li> </ul>                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• EQQJTxx</li> <li>• EQQJTARC</li> </ul>                                                                                                                                             |
| Long-term plan                                                                          | Long-term plan                                                                                                                                                                                                                                                                                                                                                              | EQQLTDS                                                                                                                                                                                                                     |

**Table 2. IBM Z Workload Scheduler planning, tracking, and recovery resources (continued)**

| Resource             | Physical data sets                                                                                                            | DD name                                                                                              |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Restart and clean up | <ul style="list-style-type: none"> <li>• Primary index</li> <li>• Secondary index</li> <li>• Structured data files</li> </ul> | <ul style="list-style-type: none"> <li>• EQQPKlxx</li> <li>• EQQSKlxx</li> <li>• EQQSDFxx</li> </ul> |
| Side information     | Side information                                                                                                              | EQQSIDS                                                                                              |

## Checkpoint (EQQCKPT)

The checkpoint data set contains information about which IBM Z Workload Scheduler data sets are currently active; for example, in the case of the current plan, the primary or alternate current-plan data set. It also contains record-position information for all event data sets and the Symphony run number.

## Current plan (EQQCPnDS)

The current plan (CP) is created from the LTP, AD, RD, and WS databases. The CP consists of VSAM files created by any of the following daily planning batch programs:

- Plan next period. This creates the initial CP and thereafter extends the CP by modifying it with new information from LTP, AD, RD, WS, and the old CP (if available).
- Replan current period. This reorganizes the CP with new information from the databases.

The CP is also updated dynamically by the job-tracking functions, the MODIFY CURRENT PLAN dialog, the program interface (PIF), the application programming interface (API), Dynamic Workload Console, OCL, BCIT, and by events created from RODM notifications.

IBM Z Workload Scheduler uses these VSAM data sets when creating or maintaining the current plan:

- The primary current-plan data set, DD name EQQCP1DS.
- The alternate current-plan data set, DD name EQQCP2DS.
- The new current plan (NCP) data set, DD name EQQNCPDS.
- The new current plan extension (NCX) data set, DD name EQQNCXDS.
- The current plan extension (CX) data set, DD name EQQCXDS.
- The current plan backup (SCP) for the creation of the Symphony™ file, DD name EQQSCPDS.
- The primary "extended data" data set EQQXD1DS
- The alternate "extended data" data set EQQXD2DS
- The new "extended data" data set EQQNXDDS

The "extended data" data sets are used in the same ways as the current plan VSAM files.

When the CP is created, extended, or modified, it is held in the new current-plan data sets, NCP and NCX. The CP turnover process copies the NCP into one of CP1 or CP2 (whichever is inactive), and then this data set becomes the *active* CP. The NCX is copied to the CX data set, and the CX data set is then copied to a data space managed by the controller.

During the creation of the current plan, the SCP data set is used as a CP backup copy for the production of the Symphony™ file.

The primary and alternate CP data sets (CP1 and CP2), are used in a flip-flop manner; that is, IBM Z Workload Scheduler copies the active CP to the inactive data set, and then uses this newly copied data set as the active CP. The active data set is called the CP logical file.

Updates to the CX file are made in the data space. During the current plan backup process, the data space is refreshed to DASD.

For more information, see [Current plan turnover on page 83](#).

## Centralized script data set for end-to-end scheduling with fault tolerance capabilities (EQQTWSCS)

IBM® Z Workload Scheduler uses the centralized script data set for end-to-end scheduling with fault tolerance capabilities to temporarily store a script when it is downloaded from the JOBLIB data set to the agent for its submission.

## Input and output events for end-to-end scheduling with fault tolerance capabilities (EQQTWSIN and EQQTWSOU)

These data sets are required by every IBM® Z Workload Scheduler address space that uses end-to-end scheduling with fault tolerance capabilities. They record the descriptions of events related with operations running on fault-tolerant workstations and are used by both the end-to-end enabler task and the translator process in the scheduler's server.

The layouts used to map these files are DCLEVE and DCLEX0. See the corresponding sections for more information.

## Script library for end-to-end scheduling with fault tolerance capabilities (EQQSCLIB)

This script library data set includes members containing the job definitions for operations running on fault-tolerant workstations. It is required in the controller if you want to use end-to-end scheduling with fault tolerance capabilities. It is similar to the JOBLIB with the difference that it describes the IBM Workload Scheduler jobs. For details about the JOBREC, RECOVERY, and VARSUB statements, see *Scheduling End-to-end with Fault Tolerance Capabilities*.

## Event (EQQEVDS and EQQEVDDnn)

Each IBM Z Workload Scheduler system has an event data set containing records that describe the events that have occurred in the processing of work on that system. The controlling system collects these events in an event log.

The event data set is also used to checkpoint submit actions. The submit subtask uses the first record in the event data set for submit checkpointing.

## JCL repository (EQQJS1DS and EQQJS2DS)

IBM Z Workload Scheduler maintains its own copy of JCL in the JCL repository data set for every job that it submits in the current plan. IBM Z Workload Scheduler uses a primary and alternate data set for the JCL repository, EQQJS1DS and EQQJS2DS. It reorganizes the JCL repository data set that is in use by copying it to the alternate data set and then switching

over to use the newly copied data set. The value you specify on the MAXJSFILE keyword defines if the JCL repository should be automatically copied and how often the automatic copy process should occur. You can also request, or schedule, backups with the BACKUP command (for more information, see *Managing the Workload*).

JCL is stored on the JS data set for each job that has been submitted in the current plan. When an occurrence is completed, IBM Z Workload Scheduler locates all records in the JS data set for that occurrence and flags them as ready for deletion. At the same time, IBM Z Workload Scheduler deletes from the JS file all occurrences of the same application, which were previously flagged as ready for deletion. Because JCL records remain on the JS data set until the next occurrence of the same application is set to complete, the JS file should be large enough to hold at least one occurrence of each application that IBM Z Workload Scheduler runs. If you delete an occurrence, the JCL is flagged as ready for deletion and is actually deleted when the next occurrence of that application is set to complete.

If you run an application only once, the JCL remains on the JS file indefinitely. If you run many such applications, or run many applications only occasionally, or have changed operation or application names, you can use PIF to remove these unwanted records from the JS file. Two samples, EQQPIFDJ and EQQPIFJD, are provided in the sample library, which you can use to list records in, or delete records from, the JS file.

The space released in the JS file cannot be reused until the file is compressed. The released space is therefore not available until the copy process is performed.

## Job library data set (EQQJBLIB)

The job library data set contains the JCL for the jobs and started tasks that IBM® Z Workload Scheduler will submit. It is required by a controller. If you already have a job library that you use for IBM® Z Workload Scheduler purposes, specify this data set on the EQQJBLIB statement. If not, allocate one before you start the controller.

## Job-tracking (EQQJTxx and EQQJTARC)

The job-tracking log contains data about all updates to the current plan. These are used during recovery to restore the current plan. The job-tracking log also contains audit trail records, which detail accesses to resources.

The job-tracking logs are linked to the new current plan data sets (EQQNCPDS). You can define a maximum of 99 job-tracking logs, with DD name EQQJTxx, where xx is the sequence number of the JT log. The job-tracking log is switched every time a current-plan copy is performed. For details, see [Current plan turnover on page 83](#).

The job-tracking archive data set is defined by the DD name EQQJTARC, and is used by the job-tracking-log archiver subtask as a repository for JT log records associated with each new current plan. The JT archive data set is copied to the tracklog (EQQTROUT) data set by the daily plan batch programs. The NM subtask empties the JT archive data set when a daily plan batch job has created a new current plan, and NCP takeover is completed successfully.

For more information about the job-tracking-log archiver subtask, see [Job-tracking-log archiver \(JL\) on page 80](#).

## Long-term plan (EQQLTDS)

The long-term plan (LTP) is created from the AD, calendar, and period databases. The LTP data set is a VSAM file that is created and updated in any of the following ways:

- Create long-term plan. This creates the initial LTP.
- Extend long-term plan. This extends the LTP by appending new information to it. Depending on the value that you specify for the LTPDEPRES keyword of the BATCHOPTS initialization statement, extending the LTP will either leave the information in the existing LTP period unchanged or modify the old part of the plan.
- Modify or replan the long-term plan. This reorganizes the entire LTP, modifying it with new information from the AD, calendar, and period databases.

## Restart and clean up data sets (EQQPKlxx, EQQSKlxx, and EQQSDFxx)

Every IBM® Z Workload Scheduler address space that uses the Restart and Clean Up feature requires the allocation of a local VSAM repository for the structured information related to each job run. These data sets have the same structure as the data store VSAM files and can be allocated by running the EQQPCS07 sample. Keep in mind that every IBM® Z Workload Scheduler requires the allocation of a unique local VSAM repository.

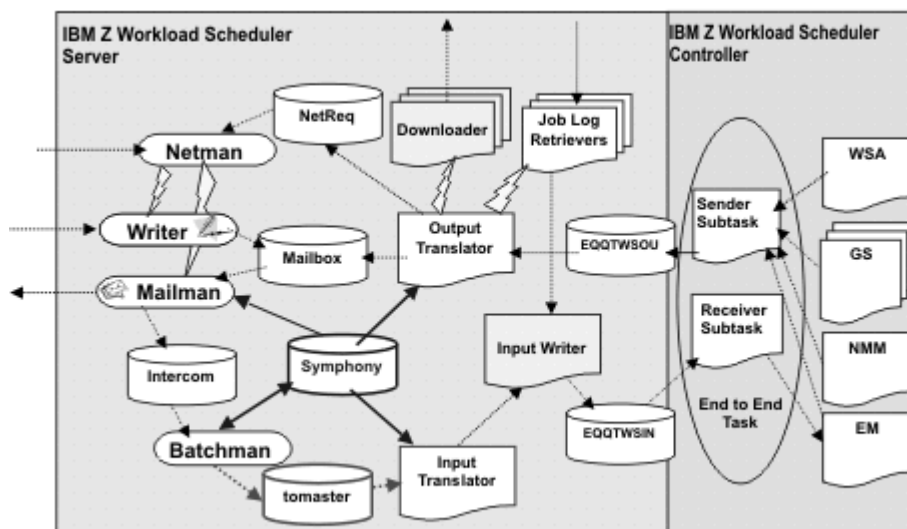
## Side information data set (EQQSIDS)

The side information data set contains event-triggered tracking criteria and JES2 NJE node names. IBM Z Workload Scheduler uses the same data set for database functions and current plan functions.

## Tasks and data sets used for end-to-end scheduling with fault tolerance capabilities

Figure 2: IBM Z Workload Scheduler data sets and files for end-to-end scheduling with fault tolerance capabilities on page 51 shows the processes and the data sets used by the controller and by the server for end-to-end scheduling with fault tolerance capabilities.

Figure 2. IBM Z Workload Scheduler data sets and files for end-to-end scheduling with fault tolerance capabilities



The server address space hosts the tasks and the data sets that function as the intermediaries between the controller and the IBM Workload Scheduler domain manager at the other end of the network. In many cases these tasks and data sets are a replica of the IBM Workload Scheduler tasks and data sets.

The processes for end-to-end scheduling with fault tolerance capabilities are of two types, according to where they run:

- Controller processes. They are:
  - Sender
  - Receiver
- End-to-end server. They are:
  - Netman
  - Writer
  - Mailman
  - Batchman
  - Job log retriever
  - Output translator
  - Input translator
  - Input writer
  - Downloader

### **Netman**

Replicates the IBM Workload Scheduler process. It starts at system startup. It monitors the NetReq.msg queue and the IBM Workload Scheduler TCP/IP port (usually 31111). When it receives a request, it starts the Writer or Mailman processes. The request to start or stop Mailman will come from the Output Translator via the NetReq.msg queue. The request to start or stop Writer will come from Mailman on the IBM Workload Scheduler domain manager via the TCP/IP port.

### **Writer**

Replicates the IBM Workload Scheduler process. It is started by Netman on request from the Mailman of the connected IBM Workload Scheduler domain manager. Writer has the task of writing the events that it receives from the remote Mailman in Mailbox.msg.

### **Mailman**

Replicates the IBM Workload Scheduler process. Its main tasks are:

- Routing events. It reads the events stored in the Mailbox.msg queue and sends them either to the controller, writing them in Intercom.msg, or to the remote Writer on the IBM Workload Scheduler domain manager.
- Establishing the connection with the domain manager by calling the remote Netman to start Writer.
- Sending the Symphony™ to the other IBM Workload Scheduler nodes when a new Symphony™ is created.



If defined in the topology, Mailman can start other Mailman processes, called Mailman servers, to manage communication with specific workstations in the MASTERDM domain.

### **Batchman**

Updates the Symphony™ file and resolves dependencies at master level. It replicates the functionality of IBM Workload Scheduler Batchman to a limited extent (submission has been removed).

### **Job Log Retriever**

Receives from each distributed agent the log of a job run on the agent. After the Job Log Retriever has received the log, it sizes the log according to IBM Z Workload Scheduler specifications, translates it from UTF-8 to the EBCDIC codepage, and sends it to the Input Writer. The retrieval of a job log is a lengthy operation and users may request several logs at the same time. For this reason, a subtask is started for each job log retrieval. The subtasks are temporary and terminate after the logs are sent to the Input Writer.

### **Output Translator**

Receives the events in IBM Z Workload Scheduler format from the outbound queue and elaborates them to activate the correct IBM Workload Scheduler function. It also translates event names from the EBCDIC codepage to UTF-8.

The Output Translator interacts with three different components depending on the type of the event:

- Starts a Job Log Retriever thread if the event is to retrieve the log of a job from an IBM Workload Scheduler distributed agent.
- Starts a Downloader thread if the event is to download the script.
- Enqueues an event in NetReq.msg if the event is to start or stop Mailman.
- Enqueues events in Mailbox.msg for the other events that are sent to update the Symphony™ file on the distributed agents (i.e. events for a job that has changed status, events for manual changes on jobs or workstations, or events to link/unlink workstations).
- Switches the Symphony™ files.

The Output Translator uses the IBM Workload Scheduler libraries to create the events and to enqueue them on the event files.

### **Input Translator**

Translates the events read from the tomaster.msg to the IBM Z Workload Scheduler format, including UTF-8 to EBCDIC translation, and writes them in the inbound queue.

### **Sender Task**

Is a subtask of the end-to-end scheduling with fault tolerance capabilities task. It receives events from all the controller tasks that make changes in the control program and enqueues the events in the outbound queue. The events are received via SSI that is the usual method the IBM Z Workload Scheduler tasks use to exchange events. The tasks that change the control program and that send events to the Sender Task are:

- General service (GS)
- Normal mode manager (NMM)

- Event manager (EM)
- Workstation analyzer (WSA)

The NMM sends events to the Sender Task during the daily planning for synchronization purposes.

### Receiver Task

Is a subtask of the end-to-end scheduling with fault tolerance capabilities task. It receives events from the inbound queue and enqueues them to the Event Manager. The events have already been filtered and elaborated by the Input Translator.

### Input Writer

Receives the input from Job Log Retriever and Input Translator and writes it in the inbound queue (EQQTWSIN).

### Downloader

Sends scripts to remote agents. A thread is started for every script that must be downloaded and ends after the script has been downloaded.

IBM Z Workload Scheduler uses the following data sets for end-to-end scheduling with fault tolerance capabilities:

- Data sets on z/OS®:

#### EQQTWSIN

Sequential data set used to queue events sent by the server to the controller (inbound queue).

#### EQQTWSOU

Sequential data set used to queue events sent by the controller to the server (outbound queue).

#### EQQSCLIB

Partitioned data set used as a repository for the definitions of the jobs running on distributed agents.

This data set is not shown in [Figure 2: IBM Z Workload Scheduler data sets and files for end-to-end scheduling with fault tolerance capabilities on page 51](#).

#### EQQSCPDS

VSAM data set containing a copy of the current plan used by the daily plan batch programs to create the Symphony file. This data set is not shown in [Figure 2: IBM Z Workload Scheduler data sets and files for end-to-end scheduling with fault tolerance capabilities on page 51](#).

#### EQQTWSCS

Sequential data set used to temporarily store a script when it is downloaded from the JOBLIB data set to the agent for its submission. This data set is not shown in [Figure 2: IBM Z Workload Scheduler data sets and files for end-to-end scheduling with fault tolerance capabilities on page 51](#).

- Data sets on USS. The following filelets are in the work directory which is defined through the TOPOLOGY statement.

#### Symphony™

File containing the active copy of the plan used by the distributed agents. The daily planning batch job creates the Symnew file. The Translator renames Symphony in Symold and Symnew in Symphony.

The Translator creates also the Sinfonia file that contains the copy of the Symphony file used by the distributed agents.

#### **Sinfonia**

File containing the distribution copy of the plan used by the distributed agents.

#### **NetReq**

File used to queue requests for the Netman process.

#### **Mailbox**

File used to queue events sent to the Mailman process.

#### **Intercom**

File used to queue events sent to the Batchman process.

#### **Tomaster**

File used to queue events sent to the Translator process.

## Data sets used for data store

The Data Store SYSOUT database consists of VSAM and unstructured data files and of primary and secondary indexes. They are described in the following table:

**Table 3. The data store data sets**

| Database                | Physical data sets                      | DD name  |
|-------------------------|-----------------------------------------|----------|
| Structured data files   | Data file (01-99)                       | EQQSDFxx |
| Primary index           | One primary index for each Data Store   | EQQPKlxx |
| Unstructured data files | Data file (01-99)                       | EQQUDFxx |
| Secondary index         | One secondary index for each Data Store | EQQSKlxx |

## Structured data files

The structured data files contain joblog SYSOUTs in a form based on the parsing of the three components of the job log, the JESJCL, the JESYSMSG and the JESMSG LG, especially the first two. User SYSOUTs are excluded from the structuring mode. These files are required.

## Unstructured data files

The unstructured data files contain joblog SYSOUTs in a flat form, as provided by the JES spool. You can check the SYSOUT with the BROWSE JOBLG function. Note that the unstructured data file can store, if requested, also the user SYSOUTs. The activation of the unstructured data files is optional, depending on appropriate data store parameters.

## Primary index

This contains an entry for each SYSOUT whose data is stored in one of the data files.

## Secondary index

The secondary index is a variable-length key-sequenced data set (KSDS). Because it can be a single record, that corresponds to a specific secondary-key value, it can trace many primary keys.

## IBM Z Workload Scheduler batch programs

The controller includes a set of batch programs for tasks that are not suitable for online processing. The batch programs are submitted from the dialog, using predefined JCL. Before submission, the JCL is modified from the IBM Z Workload Scheduler dialog according to user specifications. Some of the batch programs use services provided by the IBM Z Workload Scheduler address space.

IBM Z Workload Scheduler includes the following batch-program load modules that are called by EQQBATCH:

### **EQQADCOP**

Calculate and print the run dates of an application

### **EQQADDEP**

Produce a cross-reference listing between applications and their external predecessors and successors

### **EQQADMUP**

Mass update the application descriptions

### **EQQADPRT**

Print detailed application descriptions

### **EQQAXR00**

Produce a cross-reference listing for applications

### **EQQCLPRP**

Print the periods

### **EQQCLPRT**

Print the calendars

### **EQQDNTOP**

Produce (extend or create) a new current plan

### **EQQDOTOP**

Print the current plan statistics

### **EQQDPCOP**

Produce a copy of the AD, LTP, RD, SI, and WS VSAM data sets that can be used to produce a trial current plan

**EQQDRTOP**

Replan all values in the "current" current plan

**EQQDSTOP**

Renews the Symphony™ file

**EQQDTTOP**

Produce a trial current plan

**EQQEVPGM**

Report events

**EQQICTOP**

VSAM data set migration program

**EQQJVPRT**

Print JCL variables

**EQQLTCRE**

Create the long-term plan

**EQQLTMOA**

Modify all occurrences in the long-term plan

**EQQLTMOO**

Modify one application in the long-term plan

**EQQLTPRT**

Print the long-term plan

**EQQLTTRY**

Produce a trial long-term plan

**EQQOIBAT**

Print operator instructions

**EQQOIBLK**

Mass update operator instructions

**EQQPDF**

Purge a data lookaside facility (DLF) object

**EQQPURGE**

Process DLF purge JCL

**EQQWSPRT**

Print the workstation descriptions

## EQQYLTOP

Create application descriptions and operator instructions

## EQQYTOPX

The program interface top module.

IBM Z Workload Scheduler also includes the cataloged procedure **EQQRCSIM**, which is used for simulating return codes with step-level restart.

For more information about the batch programs, see *Managing the Workload*.

## The IBM Z Workload Scheduler system

This section describes the major subcomponents of the IBM Z Workload Scheduler subsystem and their functions.

### Subsystem early code - EQQINITO

Each z/OS subsystem builds a subsystem vector table (SSVT) control block that defines what functions are supported by that subsystem. The IBM Z Workload Scheduler SSVT is built by a separate module, EQQINITO, which is invoked during the master scheduler initialization at IPL. EQQINITO does the following:

- Sets the UPSS bit in the (SSVT) so that IBM Z Workload Scheduler can be started under JES
- Builds common storage area (CSA) control blocks to queue events until IBM Z Workload Scheduler is started
- Builds a subsystem extension (SSX) block and chains it to the SSVT
- Builds an SSVT and chains it to the subsystem communication vector table (SSCVT).

The SSVT that EQQINITO builds specifies that IBM Z Workload Scheduler supports two subsystem calls:

- A request for service from an IBM Z Workload Scheduler dialog (type 67)
- A notification about a tracking event (type 68).

The code that is required to support these two subsystem calls is contained in a separate load module, EQQSSCMO . This module is loaded in ECSA by EQQINITO processing at IPL. It can be temporarily replaced when the IBM Z Workload Scheduler address space is started using the SSCMNAME keyword of OPCOPTS, see *Customization and Tuning*.

### IBM Z Workload Scheduler interface component

The IBM Z Workload Scheduler subsystem interface component consists of:

- The IBM Z Workload Scheduler SSVT. The SSVT is built by the EQQINITO module during the master scheduler initialization and is located in key zero, CSA storage (subpool 241).
- The modules that implement the passing of a request from the caller address space to the IBM Z Workload Scheduler address space. These routines are located in the EQQSSCMO module.

An SSVT can support up to 256 function calls. The IBM Z Workload Scheduler SSVT supports two function calls. The first call is issued by IBM Z Workload Scheduler dialogs; the second is used by event-tracking exits.

z/OS and JES exits supplied with IBM Z Workload Scheduler request service by directing the SSI request to the MSTR subsystem. These function calls cause the master subsystem to invoke all defined subsystems.

## Requesting IBM Z Workload Scheduler service

Requests for IBM Z Workload Scheduler subsystem services from these sources are passed to the product using the z/OS subsystem interface:

- Event-tracking routines. These are versions of standard z/OS and JES exits that are supplied by IBM Z Workload Scheduler and that invoke services by issuing the EQQEXIT macro. The EQQEXIT macro generates code to invoke IBM Z Workload Scheduler services correctly.
- TSO users running IBM Z Workload Scheduler dialogs in an ISPF environment. The dialogs invoke IBM Z Workload Scheduler services by calling the TSO service facility, which in turn calls the EQQMINOO module. The EQQMINOO module is APF-authorized and is able to use the z/OS subsystem interface to request service from IBM Z Workload Scheduler.
- The IBM Z Workload Scheduler server handles requests from remote dialog users or PIF applications, or from the GUI. The requests are forwarded to the subsystem via the EQQMINOO module, that uses the z/OS® subsystem interface.
- The program interface, the batch loader, and the event generation program (EQQEVPGM).

Requests for IBM Z Workload Scheduler subsystem services can also be made through the application programming interface (API).

As a result of calling the z/OS subsystem interface, the module EQQSSCMO is invoked. This module is loaded during the master scheduler initialization and resides in the link pack area (LPA) or CSA, depending on whether it is loaded from SYS1.LPALIB or SYS1.LINKLIB. The EQQSSCMO routine provides the interface to the IBM Z Workload Scheduler address space.

If the service requester is an event-tracking routine, the EQQSSCMO module is called once for each IBM Z Workload Scheduler subsystem that is defined. If the service requester is an IBM Z Workload Scheduler dialog, the EQQSSCMO module is called only for one specific subsystem determined by the subsystem name that the TSO user has defined in the dialog initialization panel.

If EQQSSCMO is called for a job-tracking event, an exit event record is built and added to an IBM Z Workload Scheduler queue that is serviced by the event writer (EW) subtask. (This subtask is described in [Event writer \(EW\) on page 75](#). The job-tracking caller does not wait for service from the event writer. Instead, the job-tracking caller returns after updating the EW queue.

If EQQSSCMO is called for a dialog service request, an entry is added to an IBM Z Workload Scheduler queue that is serviced by the general service (GS) subtask. (This subtask is described in [General service \(GS\) on page 78](#).) If a GS subtask is active, the request is dequeued and processed. The dialog user caller waits for service from the GS subtask. When the service is performed, the GS subtask posts the waiting dialog. The EQQSSCMO module then returns to EQQMINOO, which in turn returns to the IBM Z Workload Scheduler dialog.

## Subsystem address space - EQQMAJOR

IBM Z Workload Scheduler is a z/OS started task that is implemented by the EQQMAJOR load module. To run successfully, this load module must reside in an APF-authorized library. It is link-edited with the AC(1) and AMODE(31) attributes.

EQQMAJOR performs the following tasks:

- Address space initialization:
  - Set up ESTAE recovery.
  - Establish an address-space-level and TCB-level resource manager.
  - Process initialization file.
  - Open all required files.
  - Update the SSX with IBM Z Workload Scheduler TCB and ASCB addresses to indicate (to IBM Z Workload Scheduler-subsystem-interface routines) that the product is active.
- Address space termination:
  - Clear IBM Z Workload Scheduler TCB and ASCB addresses from the SSX to indicate (to IBM Z Workload Scheduler-subsystem-interface routines) that the product is not active.
  - Close all open files.
  - Cancel ESTAE recovery.
- Address space recovery:
  - Create diagnostic information.
  - Determine the retry routine to be used.
  - Return to RTM via SETRP retry.

The subsystem job-step task (EQQMAJOR) builds the IBM Z Workload Scheduler environment. EQQMAJOR invokes the subsystem task dispatcher, EQQZMAIN. The majority of IBM Z Workload Scheduler functions are performed by subtasks to EQQZMAIN. EQQZMAIN attaches these subtasks to run the various subfunctions of the subsystem. The initialization parameters that are passed to IBM Z Workload Scheduler (from the parameter library, EQPPARM) determine which subtasks will be activated.

## Subsystem task dispatcher - EQQZMAIN

After IBM Z Workload Scheduler is started and initialization is complete, the subsystem task waits for more work. EQQZMAIN, the subsystem task dispatcher, then performs one of the following:

- Attaches subtasks (if required)
- Requests subtasks to terminate (if IBM Z Workload Scheduler is stopping)
- Returns to caller (if no events are pending)
- Invokes the wait routine.

IBM Z Workload Scheduler monitors its subtasks by referring to a table that has one entry for each possible subtask. Each entry in this table contains:



- The name of the task
- The name of the load module to be given control
- The TCB address of the subtask
- The ECB that each IBM Z Workload Scheduler will post when the subtask is to terminate
- Status information.

All subtasks are expected to terminate only when their stop-ECBs are posted. If a subtask has ended unexpectedly, IBM Z Workload Scheduler checks the corresponding entry in the subtask table to determine if the task should be reattached. If so, the task is restarted.

If IBM Z Workload Scheduler is requested to stop, all the active subtasks are posted to stop processing. The product then waits for the subtasks to end.

## Message-writer routine

IBM Z Workload Scheduler passes the address of an IBM Z Workload Scheduler communication area (the MCA block) to each subtask it attaches. The MCA contains data shared by subtasks and the addresses of common subroutines.

One of these common routines is the message-writer routine. All IBM Z Workload Scheduler subtasks use this routine to issue messages to the operator and to the IBM Z Workload Scheduler message-log file.

## Server address space - EQQSERVR

The IBM Z Workload Scheduler server is a z/OS® started task that is implemented by the EQQSERVR load module. To run successfully, this load module must reside in an APF-authorized library. It is link-edited with the AC(1) and AMODE(31) attributes.

The server must run on the same z/OS® system where the served controller is started.

EQQSERVR performs the following tasks:

- Address space initialization:
  - Set up ESTAE recovery
  - Process initialization file
  - Attach the main server task
- Address space termination:
  - Detach the main server task
  - Cancel ESTAE recovery
- Address space recovery:
  - Create diagnostic information
  - Determine the retry routine to be used
  - Return to RTM via SETRP retry

The server job–step task (EQQSERVER) attaches the main server task (EQQPHTOP), and waits for operator commands. All the server processing is performed by the EQQPHTOP and its subtasks.

## Main server task - EQQPHTOP

This subtask is attached by EQQSERVER when initialization is complete. The major tasks performed by EQQPHTOP are:

*For APPC:*

- Initialize to APPC as scheduler
- Wait for one of the following events to occur:
  - An allocation request is received from APPC for a new connection. EQQPHTOP attaches an EQQPHAPP subtask to handle this connection.
  - The stop ECB is posted. In this case, EQQPHTOP will propagate the termination to all the subtasks by posting their stop ECB, will terminate itself as an APPC scheduler, and will return to the caller.

*For TCP/IP:*

- Initialize to TCP/IP as server
- Respond when a request is received for a new TCP/IP connection (from ISPF, Dynamic Workload Console, or PIF). EQQPHTOP calls the EQQPTTOP subtask to handle this connection. EQQPTTOP is linked to the EQQZTSER process, which includes a main thread that listens for incoming requests and in response to every request for connection opens a new thread.

*For end-to-end scheduling with fault tolerance capabilities:*

- Start the EQQPWAPP task to communicate with the distributed network, if the TPLGYPARM keyword was specified among the server parameters in the SERVOPTS statement,

The EQQPHTOP task ends when all the subtasks ended.

## Data store address space – EQQFARCH

The IBM Z Workload Scheduler data store is a z/OS® started task that is implemented by the EQQFARCH load module. To run successfully, this load module must reside in an APF-authorized library. It is link-edited with the AC(1) and AMODE(31) attributes.

EQQFARCH is the top module of the Data Store Started Task Control. It basically loads and calls the EQQFARMJ module, that performs the following tasks:

- Initialization of Data Store parameters
- Initialization, synchronization, and termination of all Data Store subtasks. In particular for the synchronization function, EQQFARMJ builds an event table to manage wait/post requests which synchronize the different subtask activity.

For more information about the subtask functions and their interaction, see [IBM Z Workload Scheduler data store task structure on page 68](#) and [IBM Z Workload Scheduler data store subtasks on page 96](#).

## IBM Z Workload Scheduler task structure

The task dispatcher, EQQZMAIN, waits for one of the following events to occur:

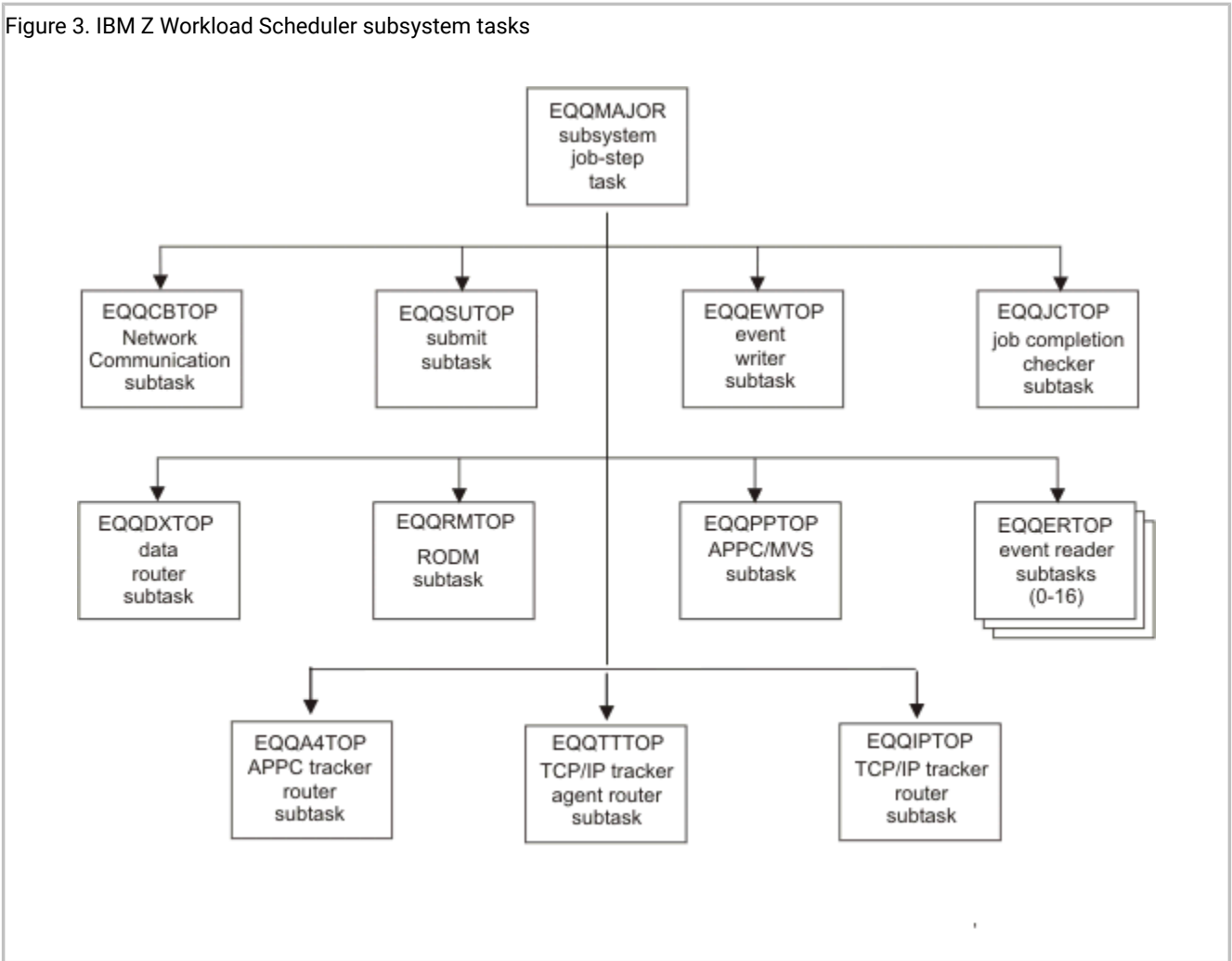
- A stop or a modify command entered by the z/OS operator. If an operator stop command is received, all the subtasks are posted to terminate.
- A message created by a subtask. When messages are created by IBM Z Workload Scheduler subtasks, they are formatted and written to the message log data set.
- Subtask termination.

The subsystem job-step task ends when all subtasks have ended.

[Figure 3: IBM Z Workload Scheduler subsystem tasks on page 64](#) shows the tasks that can be started as subtasks by the job-step task when IBM Z Workload Scheduler is installed.

### Example

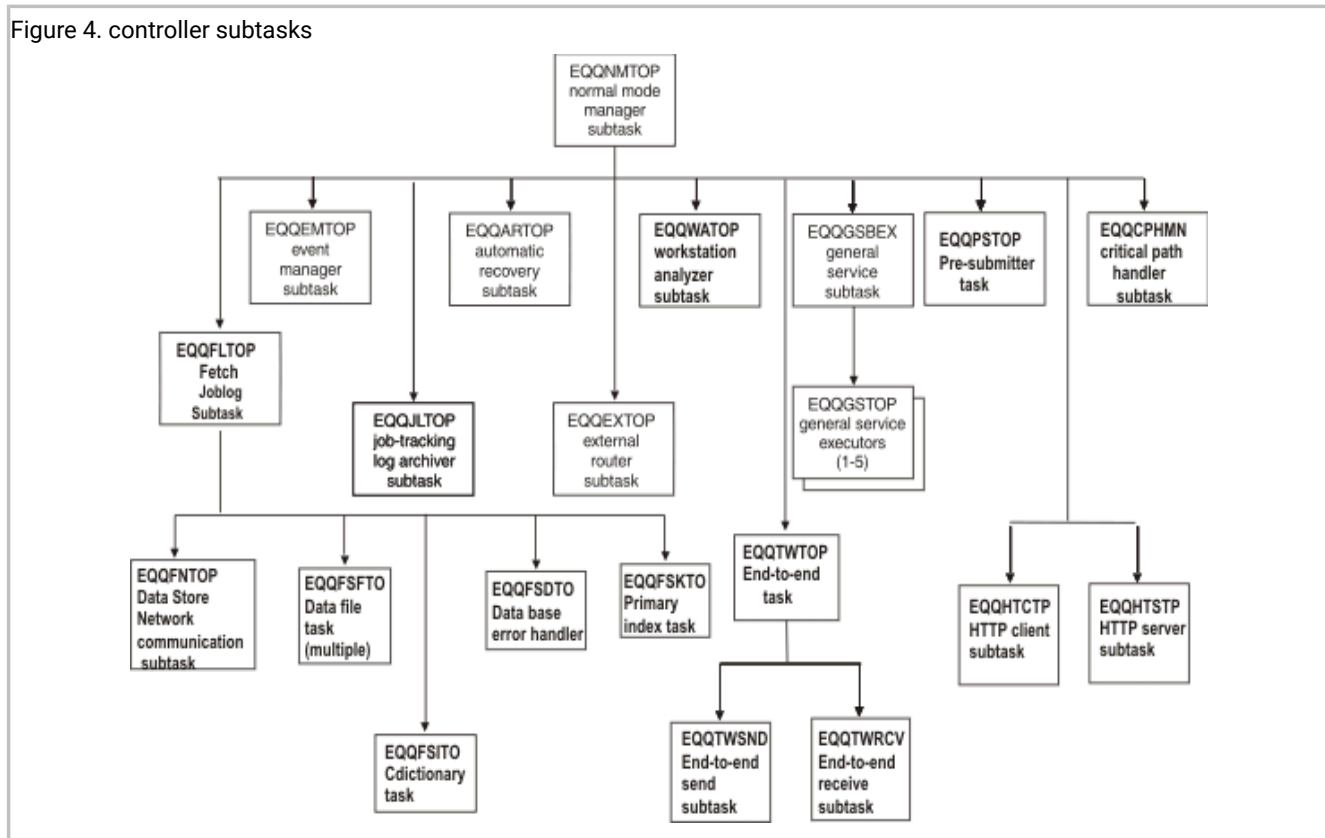
Figure 3. IBM Z Workload Scheduler subsystem tasks



If the controller is installed on the system, the normal-mode-manager (NM) subtask will be attached. The NM subtask will attach the tasks that reference the current plan as subtasks. These tasks are shown in [Figure 4: controller subtasks on page 65](#).

**Example**

Figure 4. controller subtasks



## IBM Z Workload Scheduler server task structure

The main server task, EQQPHTOP, is attached by main task EQQSERVR. If you are using the APPC communication protocol, for each new conversation a new instance of EQQPHAPP subtask is attached. If you are using the TCP/IP communication protocol, for each new connection a new thread is started by process EQQZTSER (which depends on task EQQPTTOP). The EQQPWAPP subtask is attached for end-to-end scheduling with fault tolerance capabilities. It triggers the server processes for end-to-end scheduling. [Figure 5: IBM Z Workload Scheduler server tasks on page 66](#) shows the task structure of the IBM Z Workload Scheduler server address space.

Figure 5. IBM Z Workload Scheduler server tasks

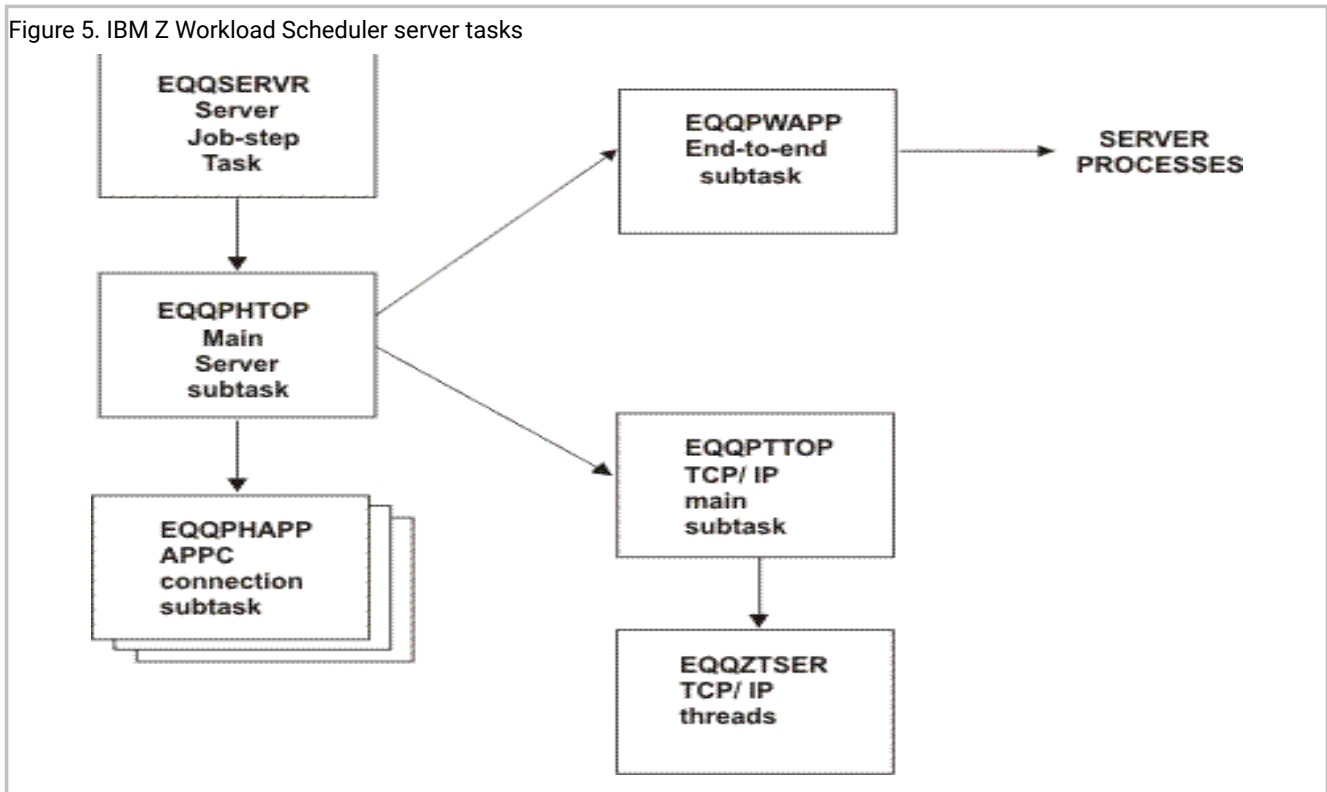


Figure 6: Internals of the EQQZTSER process. on page 67 provides a graphical summary of how process EQQZTSER works. The main thread runs a Listener thread, which starts a new communication thread for each incoming TCP/IP connection request it receives. A request for connection can come from any of the available user interfaces: PIF, OCL, BCIT, ISPF dialogs, or Dynamic Workload Console. Note that:

- Any communication thread that stays idle for more than five minutes is automatically closed the end of this time.
- The maximum number of threads that can be open at any moment is given by your z/OS system configuration.

Figure 6. Internals of the EQQZTSER process.

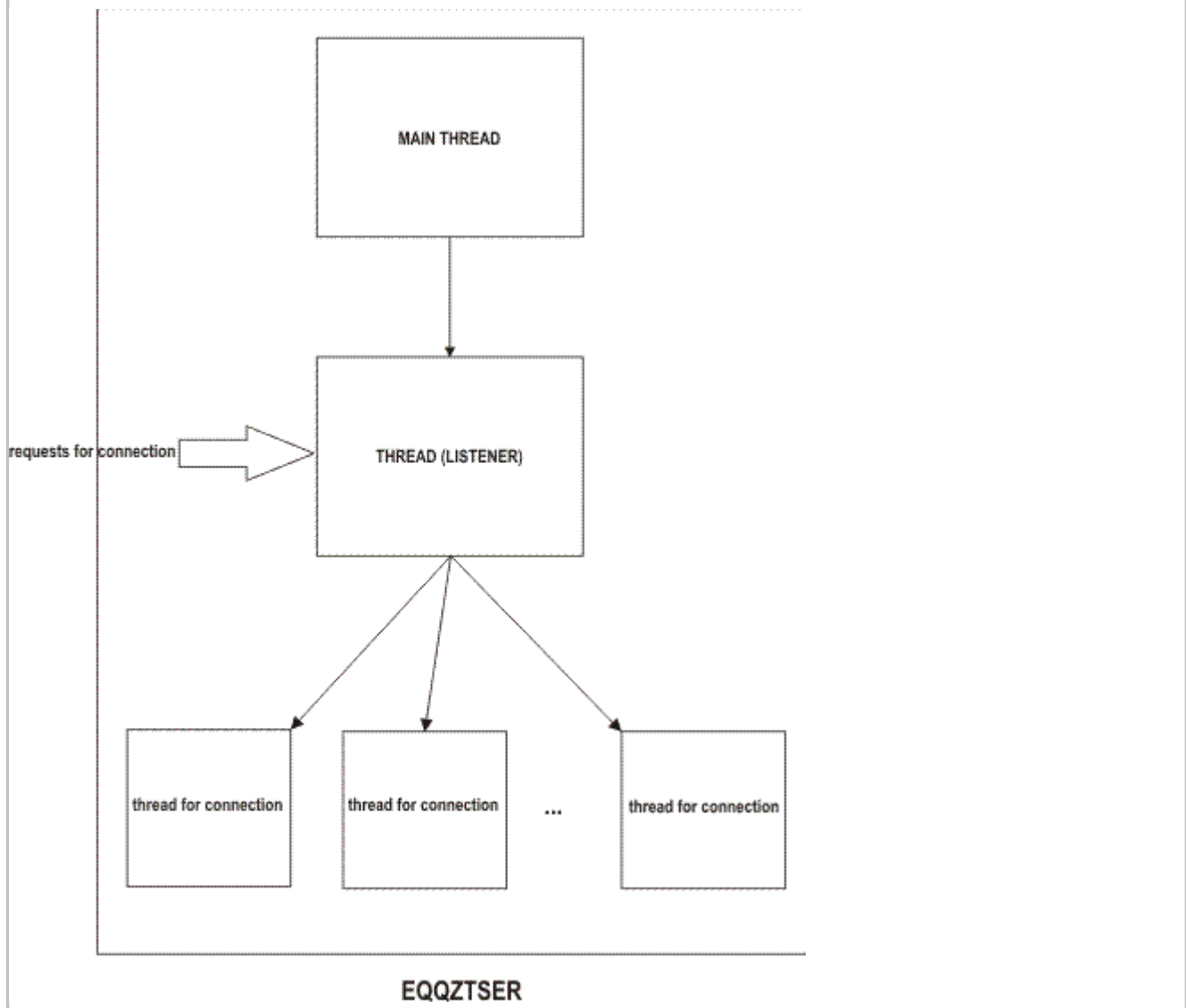
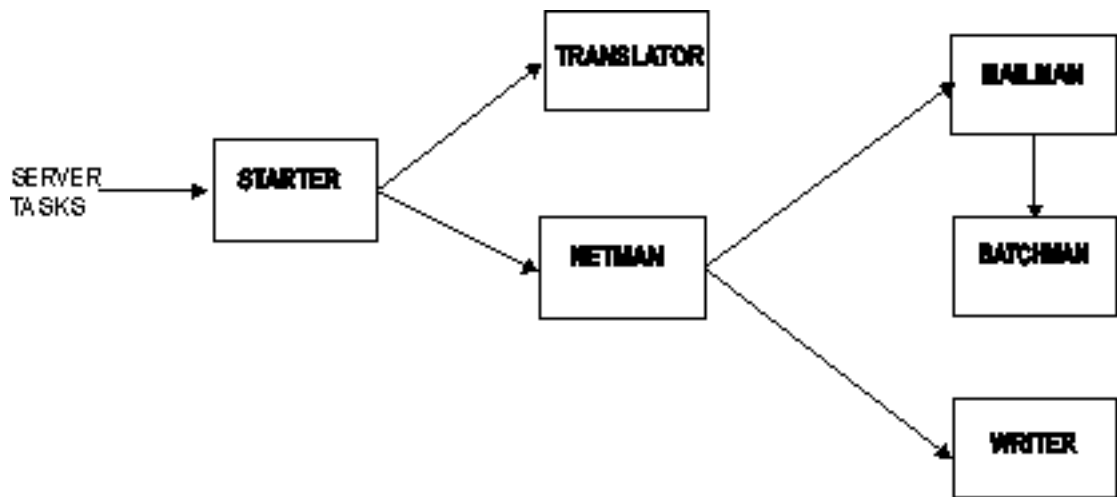


Figure 7: IBM Z Workload Scheduler server processes for end-to-end scheduling with fault tolerance capabilities on page 68 shows the end-to-end server processes started by the EQQPWAPP subtask.

Figure 7. IBM Z Workload Scheduler server processes for end-to-end scheduling with fault tolerance capabilities

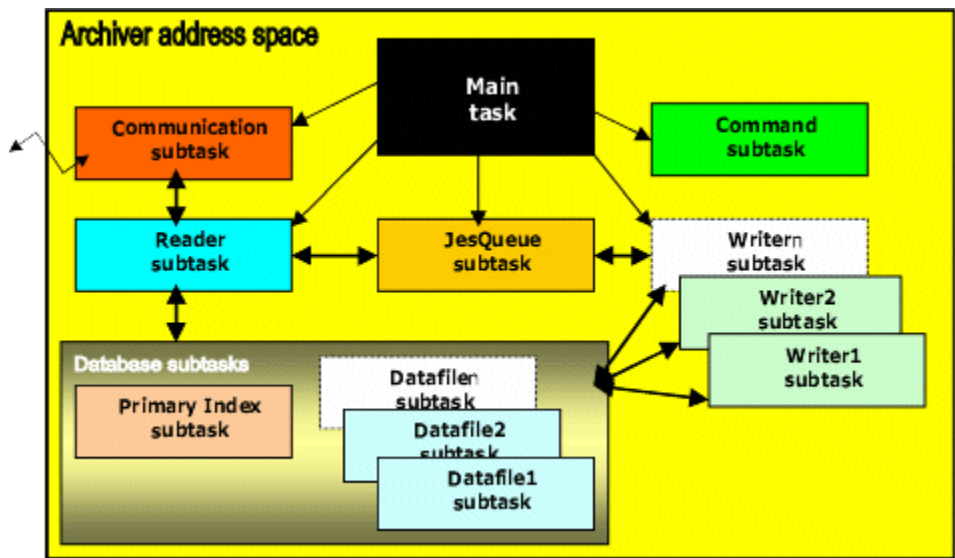


## IBM Z Workload Scheduler data store task structure

When EQQFARCH is started, EQQFARMJ initializes and activates the main subtasks and initializes the database. Depending on the number of data files referenced in the startup JCL, different data file subtasks are also activated. [Figure 8: IBM Z Workload Scheduler data store address space structure on page 68](#) shows the task structure of the IBM Z Workload Scheduler Data Store address space.

### Example

Figure 8. IBM Z Workload Scheduler data store address space structure



## IBM Z Workload Scheduler subtasks

This section describes the tasks that can be started as subtasks to the IBM Z Workload Scheduler subsystem.



## APPC (PP)

The APPC (PP) subtask lets you connect to programs running on any Systems Application Architecture® (SAA®) platform, and any other platforms that conform to CPI-C protocol, which support Advanced Program-to-Program Communications (APPC). APPC is the term used to refer to an implementation of Systems Network Architecture (SNA) for logical unit (LU) type 6.2.

The application programming interface (API) is provided to enable your application transaction program (ATP) to establish a *conversation* with the IBM Z Workload Scheduler subsystem. The API uses a subset of Common Programming Interface for Communications (CPI-C) calls, send and receive buffer mappings, and a call-sequence protocol. Your programs access the IBM Z Workload Scheduler address space data by providing calls to the APPC API. You can regard the set of APPC verbs as a programming language that you can write conversations in. The IBM Z Workload Scheduler API lets your own programs:

- Extract information about the current plan (GET request)
- Update or add current-plan operations (PUT request)
- Delete operations in the current plan (DEL request)
- Report events to IBM Z Workload Scheduler (CREATE request).

For more information about the API, refer to *Driving IBM® Z Workload Scheduler*. For more information about CPI-C, see *Common Programming Interface: Communications Reference* in the Systems Application Architecture® (SAA®) library.

IBM Z Workload Scheduler is an APPC transaction scheduler; the scheduler name is the same as the subsystem name. By associating the scheduler with a logical unit in the APPCPMnn member of SYS1.PARMLIB, all allocate requests directed to this LU are passed to the subsystem. IBM Z Workload Scheduler then schedules a partner transaction program (TP) in its own address space. The originating TP issues a request and waits for the complete reply, before issuing a new request or deallocating the conversation.

IBM Z Workload Scheduler recognizes these TP names:

### **EQQTRK**

Supplied by trackers that communicate with the controller through APPC

### **EQQAPI**

Supplied by user programs (ATPs) that communicate with IBM Z Workload Scheduler through the API.

The APPC subtask is attached by the subsystem task. The subtask creates a new queue and table with one entry for each conversation. This entry contains data received from APPC about this conversation and parameter list areas, including the event control block (ECB), used for all asynchronous requests.

APPC and IBM Z Workload Scheduler interface in this way:

- The queue server contains a *work-to-do* loop, which waits on an ECB list. Initially, this ECB list contains a stop-ECB and a queue-ECB. The IBM Z Workload Scheduler tracker attaches and detaches APPC.
- Inbound allocation messages are placed on the APPC queue (APPQ) by the APPC cross-system coupling facility (XCF) message exit. When this message is detected on the queue, a new entry is added to the conversation table, and the ECB is added to the ECB list.
- The subtask interfaces with the system security product through SAF RACROUTE calls, using the security token and local LU name. If the user does not have read or update access, the request is rejected immediately and the conversation deallocated with `security_invalid`. IBM Z Workload Scheduler checks security for every request to ensure that authority has not been changed.
- IBM Z Workload Scheduler places inbound requests GET, PUT, or DEL, on the general services (GS) queue, or calls the subsystem interface (SSI) for CREATE requests. IBM Z Workload Scheduler issues receive requests until `state_received=send`, before placing a request block on the GS queue or calling the SSI. All other entries in the table are checked for posted ECBs and the program then returns to a WAIT state.
- For GET, PUT, or DEL requests, GS places the requested data on the APPC queue (APPQ). In case of error, GS generates an error return code and reason code.
- APPC builds an outbound APP buffer. When all requested data is sent, the program returns to a WAIT state. Processing continues until the subtask is stopped or the conversation ends (`state_received=deallocate_normal`). The entry in the table is deleted and the ECB list is rebuilt. This also happens if severe errors occurring during the conversation.

If APPC fails, IBM Z Workload Scheduler deallocates the conversation and deletes the entry in the table. You are informed of this situation, and should mask this event from your end-user by initiating a new *allocate* before sending a new request. If IBM Z Workload Scheduler is stopped, all conversations are deallocated.

IBM Z Workload Scheduler supports many conversations. The table is retained across APPC subtask sessions. Requests outstanding at the time APPC is closed are deallocated.

## Automatic recovery (AR)

The automatic recovery (AR) subtask handles automatic recovery requests. A z/OS job, a started-task procedure, or a job using the centralized script can contain recovery statements that specify an error situation and the recovery actions to be performed if the job or procedure fails during processing.

The AR subtask scans the failing jobs or started tasks for a recovery statement that matches the particular error. If a matching recovery statement is found, the requested recovery actions are performed. When a recovery statement matches an error condition it is changed by IBM Z Workload Scheduler to a JCL comment statement.

RECOVER statements are defined in the job input as z/OS® statements. The statement is changed when the operation is submitted to a valid comment statement for the target operating system. The image of the job input in the JOBLIB is not altered.

The following input is needed for the AR subtask:

- The job-name-table record of the current plan. When the job or procedure is run, this record saves error information, the completion codes of each step executed, and the job completion code.
- The ended-in-error record of the current plan. When a job or started-task procedure ends in error and an ended-in-error entry is created, an indicator is set in this entry. This indicator shows that the JCL or procedure should be checked for automatic recovery statements. The indicator can also be set at a later time from the HANDLING OPERATIONS ENDED IN ERROR panel in the MODIFY CURRENT PLAN dialog. The AR subtask resets the indicator when you select the entry for processing.
- The JCL repository (JS) data set. The AR subtask gets the JCL and automatic recovery statements for the failed job from this file.
- An event control block (ECB) in the normal-mode-manager control block NMMARECB. When this ECB is posted, AR investigates the ended-in-error records of the current plan for automatic recovery requests.
- Options of the AROPTS initialization statement. Using these options, you can restrict when an automatic recovery should be performed.
- The case code macro EQQCASEC.
- A list of case code definitions created by EQQCASEC.

AR invokes other components of the IBM Z Workload Scheduler subsystem. The logical-file-handler component is called to accomplish the VSAM input/output operations that are required. The modify-current-plan function of the IBM Z Workload Scheduler subsystem is called to perform the actions specified in the recovery statement.

## Critical path handler (CPH)

The critical path handler (CPH) subtask updates the critical job table, which is a table of storage control blocks, containing an entry for each critical job and each predecessor to a critical job. The scheduler allocates the critical job table in a data space, as it does for the special resources control blocks.

Only the CPH subtask can update the critical job table, using a queue driven mechanism. Any task that requests to update the critical job table adds an element to the queue named CPHQ. The CPH subtask serves this queue, by using an internal timer to wake up periodically and check the critical job table data: the process recalculates a critical path every time a predecessor of the target operation starts delaying for one of the following reasons:

- It is late, meaning that it did not start within its latest start time.
- It is long running, meaning that it is running longer than its estimated duration.
- It ends with an error.

If the critical path changed, the scheduler updates the current plan.

## Data router (DX)

IBM Z Workload Scheduler subtasks communicate with each other within the system and among systems. The data router (DX) subtask routes data from the components that send data to those that receive data. The following IBM Z Workload Scheduler subtasks send data for processing to other subtasks via the DX subtask:

- Event reader subtask (sends events)
- Event writer subtask (sends events)
- Workstation analyzer subtask (sends JCL, commands, release requests, and WTO messages)
- Network communication function (CB) subtask.

The following IBM Z Workload Scheduler subtasks receive data from the DX subtask:

- Event manager subtask (processes events)
- Submit subtask (submits JCL)
- Network communication function (CB) subtask.

When a sending component transmits data to a receiving component, the sending component puts the data on a router queue for processing by the DX subtask. The subtask can send the data to a component on the same IBM Z Workload Scheduler system as the sending component or to a component on another IBM Z Workload Scheduler system.

The DX subtask passes the data directly to the receiving component when the sending and receiving components reside on the same system. When the data is sent to another IBM Z Workload Scheduler system, the DX subtask transmits the data to the DX subtask on that system. The receiving DX subtask then passes that data to the receiving component on that system. One of the following methods is used to transmit data between systems:

- Shared DASD
- Cross-system coupling facility (XCF) communication links
- SNA communication links.
- TCP/IP communication link

Sometimes other components are involved in routing data between IBM Z Workload Scheduler systems:

- When you are using SNA communication links, the network communication function (CB) performs the transmission.
- When data is transmitted via shared DASD, the DX subtask on the transmitting system writes the data to a submit/release data set. The event writer subtask on the receiving system reads the data and passes it to the router queue. The DX subtask processes the data and then passes it to the correct component for processing.
- When an operation is ready to be started on a workstation that specifies a user-defined destination, the DX subtask queues the request to the external router (EX) subtask. The EX subtask calls the operation-initiation exit, EQQUX009, to handle communications with the user-defined destination.

## Event manager (EM)

The event manager (EM) subtask processes job-tracking, and user-created events, and updates the current plan accordingly. Event records are passed from a number of event writers via event reader subtasks, the network communication function, and XCF, and are passed to the EM queue via the data router subtask. The EM subtask calls a queue handler routine to retrieve events from the queue. IBM Z Workload Scheduler produces tracking, submission, and synch events. Tracking events are preceded by the letter A (for JES2 complexes) or by the letter B (for JES3 complexes).



**Note:** IBM Z Workload Scheduler does not track jobs with TYPRUN=SCAN.

The z/OS® tracking events are:

**1**

Reader event

**2**

Start event

**3S**

Step-end events

**3J**

Job or started-task end event

**3P**

Job or started-task termination event

**4**

Print-end event

**5**

Purge event.

The submit events are:

**IJ0**

Submit synch event

**IJ1**

Submit job JCL

**IJ2**

Submit started-task JCL

**IJ3**

Submit standalone cleanup job

**IWTO**

Submit WTO message

**IREL**

Submit a release command

User-created events (created with the EQQUSINx subroutines or the corresponding TSO commands) are sorted between jobs in event-creation order.

Events started by distributed agents are 0-type event records.

Most events processed by the queue handler subroutine are automatically created job-tracking events. To process the event, the subroutine:

- Updates the event reader position of the event data set that this event was read from.
- Checks if the event is for an operation defined in the current plan.
  - If the event is for an operation that can be matched with an operation in the current plan, the event manager processes the event by updating the current plan.
  - If the event is not for an operation that is controlled by IBM Z Workload Scheduler but is a reader event, a start event, or a user event with status Q, the EM checks if the event matches an event-triggered tracking (ETT) trigger, if ETT is active.
  - If the event is not for an operation that is controlled by IBM Z Workload Scheduler and the job is held by the IBM Z Workload Scheduler subsystem (via the HOLDJOB parameter of the EWTROPTS initialization statement), EM releases the job from hold.
- Writes a record to the current job-tracking log if the event is for an IBM Z Workload Scheduler operation and was successfully processed.
- If the event is for an IBM Z Workload Scheduler submit synchronization response, the operations for the corresponding workstation are analyzed; if the submit requests are lost, the operations are flagged as requiring the submit requests to be resent, and the workstation analyzer is posted.
- If the event is for an IBM Z Workload Scheduler job but cannot be processed immediately, the EM updates the job-tracking log and places the event on a suspend chain. Suspended events are examined by the EM every time the subtask gets control. If the event cannot be successfully matched against an operation in the current plan within 5 minutes, the event is discarded. If the event can be matched but is received out of sequence and is still out of sequence after 5 minutes, the event is processed and the operation might be set to ended in error status.

Subtask initialization consists of building the EM environment and opening all logical VSAM files that are required.

Subtask mainline logic consists of providing service for the following events:

- Timer expiration. Retry processing of suspended events.
- Subtask stop request.
- Add an event record to the event manager queue.

Subtask termination consists of closing all open files.

## Event reader (ER)

The event reader (ER) subtask provides support for reading event records from an event data set. If new data arrives in this data set, it is read and passed to an in-storage queue (the event manager queue) via the data router subtask.

Subtask initialization consists of building control blocks for the ER subtask, reading and processing the parameter library member, and opening the input event data set.

Subtask mainline logic provides service for the following events:

- Timer expiration. Process the event data set.
- Subtask stop request. Return to caller.
- Reading suspend request. Start/stop reading from the event data set.

Up to 16 ER subtasks can be started for each IBM Z Workload Scheduler subsystem.

## Event writer (EW)

The event writer (EW) subtask provides support for writing event records to an event data set. An event record is built from job-tracking-exit records that are transmitted to the EW subtask via an in-storage queue, the WTRQ queue.

The EW subtask also regularly checks the contents of a submit/release data set. If new data arrives in this data set, the data is read and passed via the data router subtask to the submit subtask for processing. Data in the submit/release data set is either a release-job record or one or more submit-job records.

The EW subtask passes job and started-task termination (3P) events to the job completion checker (JC) subtask if the JC is active. The EW can also pass events to the data router queue (if the EWSEQNO parameter of the EWTROPTS initialization statement is used), and the EW subtask can act as an event reader.

Subtask initialization consists of building control blocks for the EW subtask, reading and processing the parameter library member, and opening the event data sets.

Subtask mainline logic provides service for the following events:

- Timer expiration. Process the submit/release data set.
- Subtask stop request. Return to caller.
- Process all events on the EW queue.

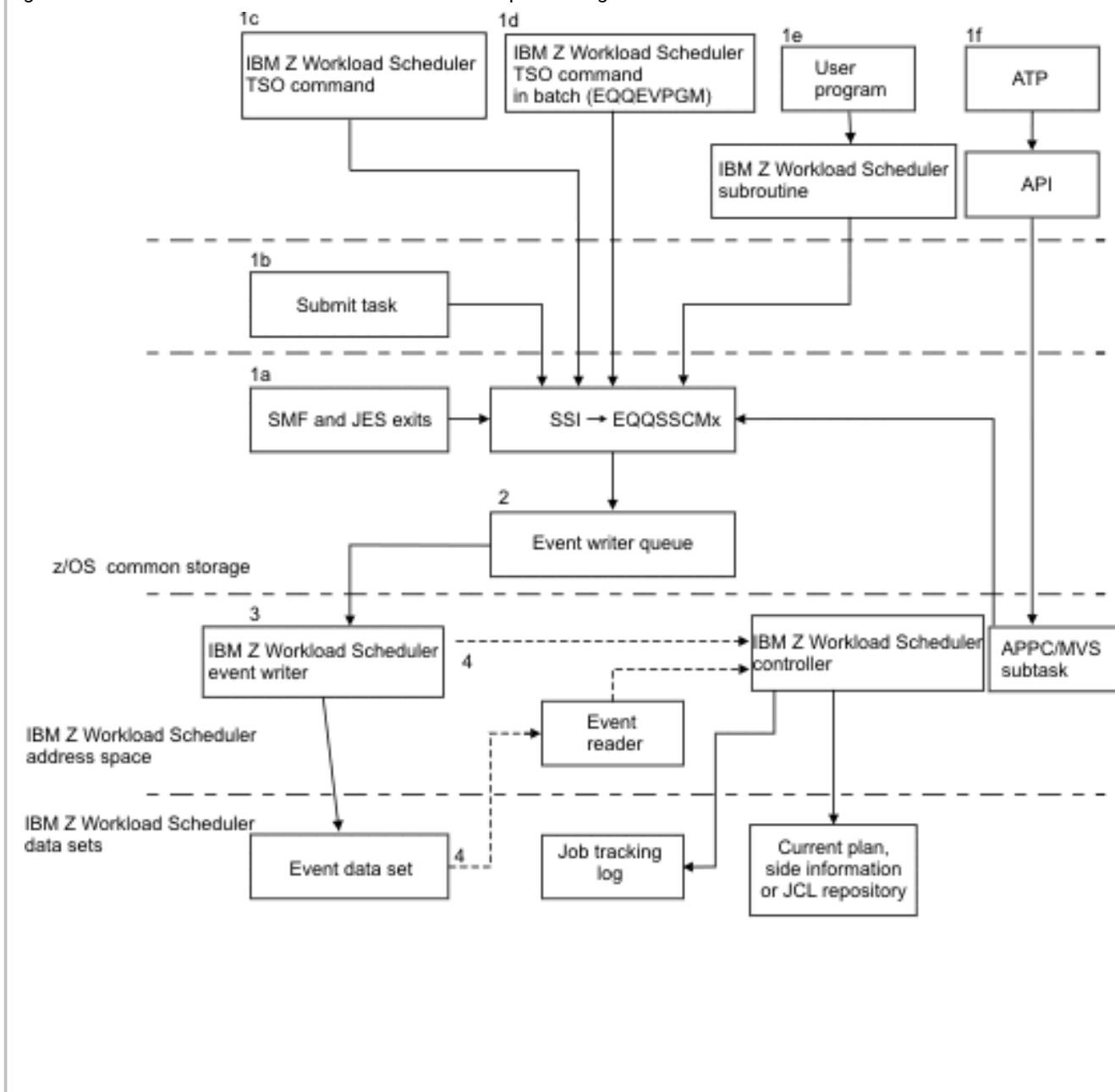
Subtask termination closes all open files and returns to the caller.

## Event creation and processing

[Figure 9: IBM Z Workload Scheduler event creation and processing on page 76](#) shows the activities that can cause events to be created and how the events are processed by IBM Z Workload Scheduler. The arrows show the flow of events among programs, central storage, and DASD storage. The flow of events is described with reference to the numbering on the diagram.

### Example

Figure 9. IBM Z Workload Scheduler event creation and processing



1. Event information is reported in one of these ways:

- a. z/OS calls the SMF and JES exits at certain stages in the life of a job. For example, the job initiation exit, IEFUJI, is called whenever a job starts. IBM Z Workload Scheduler code in the exits collects relevant information about the event and passes it to the event-creation module, EQQSSCM0, via the z/OS subsystem interface. Relevant information for a job that has started would include the name and number of the job, its starting date and time, and, if catalog management is active, data set information.
- b. All IBM Z Workload Scheduler address spaces start a submit task. It initiates work on the system that the controller or tracker is started on and that represents the destination defined in the workstation description.



When the submit task starts work, it uses EQSSCMO to create initialization events, depending on the work to be started. An IJ1 event is created for batch jobs, IJ2 for started tasks, IWTO for write-to-operator (WTO) operations, and IREL for release commands. Submit-checkpointing events (IJ0) are created for all work that IBM Z Workload Scheduler submits, except operations that are routed to a user-defined destination ID.

- c. You provide information about the event as parameters to the BACKUP, OPINFO, OPSTAT, SRSTAT, or WSSTAT command, which is issued from the TSO environment. The parameters are checked and then passed to the event-generation module, EQSSCMO, via the z/OS subsystem interface.
  - d. The BACKUP, OPINFO, OPSTAT, SRSTAT, or WSSTAT command is run from a batch job, using the EQQEVPGM event-generating batch program. Parameters, which are input to EQQEVPGM through the SYSIN JCL statement, are checked and then passed to EQSSCMO.
  - e. A user program provides information about the event in a parameter list and passes it to the EQQUSIN, EQQUSINB, EQQUSINS, EQQUSINO, EQQUSINW, or EQQUSINT subroutine. The subroutine checks the parameters and passes them to the event-generation module, EQSSCMO, via the z/OS subsystem interface.
  - f. An application transaction program (ATP) passes a CREATE request to IBM Z Workload Scheduler in an APP buffer through the application programming interface (API). The APPC subtask validates the buffer and then internally invokes the EQQUSIN subroutine.
2. The event-generation module, EQSSCMO, uses the information to build an event record and places the record in the event writer queue in ECSA.



**Note:** Except for requests submitted through the API, the processing in these first two steps can take place as soon as the z/OS subsystem interface is started at IPL time. IBM Z Workload Scheduler itself need not be active. If the product is not active (in particular, if the event writer subtask is not active), event records remain in the event writer queue until the event writer starts and processes them.

A request submitted through the API must be passed to an active IBM Z Workload Scheduler address space where the APPC subtask is started. If an event writer is not started in the same address space, the event must be broadcast.

Event records are generated for *all* z/OS jobs and started tasks, even though they might not be relevant to a particular IBM Z Workload Scheduler address space. It is not possible for the programs creating the event records to determine if a particular job is relevant to a particular IBM Z Workload Scheduler address space. The event creation programs reside in z/OS common storage and do not belong to, or have access to, the data or resources of any IBM Z Workload Scheduler address space that might be running on the same system or some other system.

3. The IBM Z Workload Scheduler event-writer subtask of the tracker reads event records from the event writer queue and writes them to an event data set.
4. Events are transmitted to the controller by an event reader function. This is performed either by an event reader function of the event writer, or a separate event reader task. An event writer can use an XCF, NCF, or TCP/IP connection to transmit events to the controller. Where a separate event reader is used, the event reader can be active at the controller, or at a tracker that is connected to the controller via XCF, NCF, or TCP/IP. The event manager

subtask that is started at the controller processes the events, and the relevant action is then taken by IBM Z Workload Scheduler. If the event writer is active but no connection exists to the controller, or if the event reader is not active, events simply stay in the event data set until the required function is available.

Events are never lost, providing that the following two conditions are satisfied:

- The event writer queue in ECSA is large enough to hold all the event records that might be created while the event writer is not active.
- The event data set is large enough to hold all the event records that might be created while a connection to the controller is lost, or an event reader is not active.



**Note:** When IBM Z Workload Scheduler is started and the BUILDSSX keyword of OPCOPTS has the value REBUILD, the event-writer queue from the old SSX (subsystem communication-vector-table (CVT) extension) is not referenced in the new SSX. For more information about BUILDSSX, see *Customization and Tuning*.

## External router (EX)

The external router (EX) subtask receives submit requests from the data router (DX) subtask when an operation is ready to be started at a computer automatic workstation that specifies a user-defined destination ID. The external router calls the operation-initiation exit, EQQUX009, to handle communications with the user-defined destination.

The EX subtask regularly checks for new requests on the EXA queue. When a new request arrives the EX subtask builds a parameter list and calls EQQUX009. If EQQUX009 abends or is not loaded, the EX subtask creates a workstation offline event for all user-defined destinations. In this case, the status of the operation that corresponds to the request is set according to the SUBFAILACTION keyword of the JTOPTS initialization statement. Subsequent submit request on the EXA queue are discarded and the corresponding operation status is set according to the WSOFFLINE keyword of JTOPTS.

The EXA queue allows for 32000 elements. If the queue becomes full the EX subtask issues a workstation offline event for all user-defined destinations. EQQUX009 must return control to the EX subtask before any subsequent queue elements are processed by the EX subtask. If the return code from EQQUX009 is not 0, the EX subtask sets operation status or generates workstation offline events as specified in the description of the operation-initiation exit in *Customization and Tuning*.

Subtask mainline logic provides service for the following events:

- Subtask stop request. Return to caller.
- Process all requests on the EXA queue and call EQQUX009.
- Generate workstation offline events in response to return code received from EQQUX009.

## General service (GS)

The general service (GS) subtask services a queue of requests from the dialogs, batch command interface tool (BCIT), batch loader (BL), control language (OCL), Dynamic Workload Console, and program interface (PIF) to the IBM Z Workload Scheduler subsystem. The first request in the queue is selected and passed to a general-service executor. This process

continues while there are requests in the queue. The GS subtask then waits for more work to arrive or for a stop-processing-ECB to be posted.

Input to the GS subtask is:

- A queue element consisting of an identifier of the caller, its ASCB address, and its TCB address (the field SSCID of the subsystem-caller control block). In addition to this ID, the queue element also contains the time stamp of the request.
- The subsystem-caller control block (SSC), which holds a description of the request in the SSCREQ field.

## General-service executor tasks

The general service (GS) executors process the requests that are on the GS queue. The GS task can attach up to five GS executor tasks to prevent service requests from being queued.

## HTTP subtasks

The HTTP tracker connection subtasks (HTC and HTS) connect IBM Z Workload Scheduler Agents, dynamic domain managers, and remote engines to the controller through an HTTP or HTTPS connection.

The HTC and HTS subtasks run in the controller address space.

### HTTP client task (HTC)

The HTC subtask removes the outbound requests from the HTTP queue, which contains requests queued by the data router, received mainly from the workstation analyzer or the general service subtasks. In particular, the HTTP queue contains the following request types:

- Job submission, from the workstation analyzer.
- Job log retrieval, from the general service.
- Job cancel, from the general service.
- Bind requests, from the workstation analyzer.

### HTTP server task (HTS)

The HTS subtask listens for inbound requests, using the port number specified in the HTTPOPTS statement.

Some of these requests, for example, the notification of operation status changes, are converted into events and are sent to the event manager through the data router.

### Job completion checker (JCC)

The job completion checker (JCC) subtask provides support for job-specific and general checking of SYSOUT data sets for jobs entering the JES output queues.

The JCC subtask is “triggered” by job and started-subtask termination (3P) events. A 3P event is generated when SYSOUT is spooled. The 3P event then informs the JCC subtask that SYSOUT data sets are available for the current job in the output

classes defined for JCC. The JCC subtask then starts to scan all JOBLLOG and other SYSOUT data set records and tries to match these records against the message tables defined to the JCC. There are message tables:

- General, for all jobs
- Specific, for the job name.

You can create these message tables by using the EQQJCCT macro. The general message table is mandatory. The JCC subtask searches for job-specific table entries first. If it does not find any, it then searches the entries in the general table.

If a match occurs, an error code can be assigned to the operation (CA=error and EID=0) if you have coded the EQQJCCT macro accurately. This means that the 3P event has been amended with the error code set by the macro. Errors like S222 abends, and JCL errors are reported before 3P events are reported. By specifying the CA and EID, you will override anything reported by earlier events or the current 3P event. Note that a match could occur, but it does not have to be reported as an error to IBM Z Workload Scheduler.

If a match does not occur, everything reported by earlier events or the current event (which is 3P) is passed to IBM Z Workload Scheduler unaltered. The status for the operation is then updated accordingly.

Subtask initialization consists of:

- Building control blocks for the JCC subtask
- Reading and processing the parameter library member
- Opening the JCC-message-table data set
- Retrieving the general (default) message table member.

Subtask mainline logic provides service for the following events:

- Timer expiration. Retry processing for all delayed jobs.
- Subtask stop request. Return to caller.
- Process all events (3P) on the JCC queue.

## Job-tracking-log archiver (JL)

This subtask, which is part of the controller, asynchronously copies the contents of the inactive job-tracking data set to the JT archive data set. The NM subtask attaches and provides work for the job-tracking-log archiver subtask (for a description of the NM, see [Normal mode manager \(NM\) on page 82](#)).

The JT archive data set is defined by DD name EQQJTARC and is used as a repository for JT log records associated with each new current plan. The job-tracking-log archiver (JL) subtask owns the JT archive data set, and will OPEN and CLOSE this data set as required.

To enable the JT log data sets to be reusable, the records must be copied to the JT archive data set. The copy routine is called once for each complete, non-archived JT log. The copy is initiated by a CP backup and is driven by the normal-mode-manager (NM) subtask.

## The archiving process

When the CP backup is complete, the NM subtask calculates the next JT log sequence number, closes the current JT log, and switches to the next JT log. The NM subtask then posts the JL subtask, which will take one of the following actions, depending upon the ECB posted:

- Work ECB is posted. The subtask reopens the old JT log data set, copies (appends) all non-archived JT logs to the JT archive data set, and posts the NM subtask when the copy is complete. The JT log is normally copied to the archive data set before it is needed again as the current JT log data set. The last record appended is the CP backup record.
- Stop ECB is posted. The subtask frees all resources and terminates.

The JT archive data set is copied to the tracklog (EQQTROUT) data set by the daily plan batch programs. The NM subtask empties the JT archive data set when a daily plan batch job has created a new current plan, and NCP takeover is completed successfully.

## Input/output errors

When a write error is found on the current JT log, the log that is in use is switched, and the NM subtask is posted to make a backup. The JL subtask is then posted to copy the JT log that had the output error. If a new output error occurs before the JL subtask has finished copying the first JT log, it is possible that there are no empty JT logs available. In this situation, the NM subtask is posted to stop. To reduce the risk of this occurring, you should always use a minimum of three JT log data sets.

If the dual-logging function is active, IBM Z Workload Scheduler duplicates the JT records in the corresponding dual JT log. Dual logs are switched at the same time and in the same sequence as the JT logs. The number of dual JT data sets is determined by the number of normal JT data sets.

JT log sequencing requires that the log that is to be made current has previously been archived. If not, the NM subtask terminates. (Repeated write errors could cause this situation to occur if the JL subtask cannot copy the JT logs as fast as the normal-mode-manager subtask can switch JT logs.)

The subtask terminates if open errors are found on the JT archive data set. Also, the JL subtask terminates if it is unable to copy the JT log to the JT log archive data set because, for example, of an I/O error on the archive data set. If the JT log or archive data set cannot be opened, the subtask terminates. If the subtask terminates abnormally, the JT log data set is not made available for reuse.

IBM Z Workload Scheduler automatically recovers from read errors on a JT log during restart. If the error occurs on the first record of the log, the Normal Mode Manager task regards the JT log as empty. A read error on a record other than the first is treated as an end-of-file on the file.

## Network communication function (CB)

The network communication function (CB) subtask supports the transmission of data between the controlling system and controlled systems. This data can be events, JCL, commands, or WTO messages. This subtask provides services for:

- Session establishment
- Session termination
- Subsystem stop
- Queued event-record handling
- SEND processing
- RECEIVE processing.

CB subtask initialization consists of:

- Building the internal control blocks (NAB and SCBs)
- Building the VTAM® control blocks (ACB, NIB, RPLs, and EXLST)
- Processing initialization parameters
- Building ECB and associated events lists
- Opening the ACB
- Issuing the SETLOGON macro to allow logons.

VTAM® exit modules include:

- The LOGON exit
- The VTAM® SCIP exit
- Completion exits
- The VTAM® LOSTERM exit
- The VTAM® TPEND exit
- The VTAM® NSEXIT exit.

CB subtask termination consists of closing the ACB.

## Normal mode manager (NM)

The normal mode manager (NM) subtask manages these data sets:

- Current® plan and its backups (CP)
- Current® plan extension (CX)
- Long-term plan (LTP)
- JCL repository (JS)
- Checkpoint
- Job-tracking log
- Side information (SI)
- Extended data and its backups (XD)

The NM subtask keeps track of which data sets are now *current*. It also controls the CP turnover process.

The NM subtask manages IBM® Z Workload Scheduler startup processing by using the job-tracking-log data set to update the current plan if IBM® Z Workload Scheduler has to be restarted from a checkpoint (that is, a data set copy) of the current

plan. The IBM Z Workload Scheduler checkpoint data set contains status information that is used to reposition IBM Z Workload Scheduler sequential data sets when the product is restarted (for example, by the hot standby function) after ending abnormally.

NM performs regular backup and reorganization of the primary JS data set to the alternate JS data set. The frequency of this procedure is determined by the maximum size of the JS data set that you have specified with the MAXJSFILE keyword of the JTOPTS statement. See *Customization and Tuning* for more information about MAXJSFILE. You can schedule or request backups of the JS data set using the BACKUP command. Refer to *Managing the Workload* for details.

Subtask initialization consists of:

- Initializing the checkpoint data set.
- Building control blocks for all job-tracking functions.
- Opening the CP, CX, LTP, XD, job-tracking-log, and side information data sets.
- If required, updating the current plan with the events since the last CP checkpoint. The NM subtask tests the checkpoint data set by reading the first record in the data set. If this record is not valid, the checkpoint data set will be formatted.

Subtask mainline logic consists of providing service for the following events:

- Timer expiration. If required, start the CP turnover process.
- Subtask stop request.
- Post the NM work ECB.

Subtask termination consists of closing all open files.

## Current® plan turnover

The creation of a new current plan is performed by the IBM® Z Workload Scheduler daily planning batch jobs. The two possible options are extend and replan the current plan. The extend function is also used when creating a current plan for the first time. Both the extend and replan functions cause the creation of a new current plan.

The steps described here explain in detail how the new current plan is created and then brought into normal IBM® Z Workload Scheduler processing. These terms are used to describe the process:

### **New current plan**

The NCP, NCX, and NXD files.

### **Current plan**

The CP1, CP2, CX, XD1, and XD2 files.

### **Active current plan**

The CP1, CP2, XD1, or XD2 file in use.

### **Inactive current plan**

The CP1, CP2, XD1, or XD2 file not in use.

***A daily planning job starts and is recognized by the normal-mode-manager subtask***

1. A daily planning batch job starts, signals the IBM® Z Workload Scheduler subsystem using an ENQ, and then waits.
2. NM detects the ENQ from the batch job and locks the current plan preventing more updates.
3. The active current plan is updated with the latest information from in-storage control blocks representing workstations and active operations. The extension file (CX), which is held in a data space, is refreshed to DASD.

***The active current plan is backed up***

4. The inactive current plan is erased.
5. The active current plan is copied to the inactive current plan. They are now identical.
6. The inactive current plan becomes the active current plan, and the previously active becomes the inactive.
7. The JT logs are switched.
8. The current plan is unlocked, and normal processing continues.
9. NM signals to the batch job that backup processing is complete.
10. The data from the inactive JT log is appended to the JT archive log.

***The daily planning job builds a new current plan***

11. The batch job starts executing again. The inactive current plan is used (together with the LTP, AD, RD, and WS for a CP extend) as input, and a new current plan is created in the NCP, NCX, and NXD data sets. While the batch job is building the new current plan, IBM® Z Workload Scheduler continues normal processing except that a current plan backup is not permitted because the batch job is using the inactive current plan data set.
12. The contents of the job-tracking archive data set are copied to the data set in the daily planning job referenced by the EQQTROUT DD name.
13. When the new current plan is ready, the checkpoint data set is updated to show if the new current plan was successfully created. The NM subtask is notified that the daily planning process has completed.
14. The subsystem investigates the checkpoint data set to see if a new current plan was successfully created. If not, IBM® Z Workload Scheduler continues as if a daily planning process had not run. If successful, processing continues with the next step.

***The new current plan is taken over***

15. The current plan is locked, preventing it from being updated.
16. The NCP is copied to the active current plan and the NCX is copied to the current plan extension (CX).
17. The job-tracking archive log is emptied.
18. The active job-tracking log now contains a record of the updates to the current plan that were made while the daily plan job was running. These are read, and the current plan is updated accordingly.
19. In-storage control blocks representing workstations and active operations are rebuilt from the active current plan, and a data space is created from the current-plan-extension data set.

***The newly created active current plan is backed up***

20. A current plan backup is performed.
21. The current plan is unlocked and normal processing continues.
22. The data from the now inactive job-tracking log is copied into the JT archive log.



23. A current plan backup is performed. The inactive current plan is erased.
24. The active current plan is copied to the inactive one, and EQQSCPDS is produced. This VSAM is a copy of the current plan and will be used by data processing to add job information to the Symphony file.
25. The next available job-tracking log becomes active.
26. The current plan is unlocked and normal processing continues. All changes to jobs in the Symphony file are sent to the distributed agents, when the Symphony file is available.

***The Symphony File is updated***

27. Starting from EQQSCPDS that contains the updates for the job-tracking file, the job and job stream information is added to the new Symphony file. If a problem occurred during the building of the Symphony file, the Symphony file is not built. To create the Symphony file, you must perform a Symphony renew after correcting the errors.

***The Symphony File is distributed***

28. IBM® Z Workload Scheduler sends the Symphony file to IBM Workload Scheduler.
29. Before distributing the new Symphony file, all the events of the old Symphony file that are still outstanding are applied to the new Symphony file.
30. In IBM Workload Scheduler, the new Symphony file is distributed.

## RODM (RM)

You can use the Resource Object Data Manager to track the status of real resources used by IBM Z Workload Scheduler operations. RODM is a data cache that contains information about real resources at your installation. Products such as AOC report actual resource status to RODM; RODM reflects the status by updating values of fields in classes or objects that represent the real resources. Subsystems on the same z/OS image as RODM can subscribe to RODM fields. When RODM updates a field, all subscribers to the field are notified.

IBM Z Workload Scheduler support for RODM lets you subscribe to RODM fields for fields in special resources. When RODM notifies a change, IBM Z Workload Scheduler updates resource fields that have a subscription to RODM. You can subscribe to RODM for these fields:

### **AVAILABLE**

The *Available* field in the resource. This value overrides the default and interval values.

### **QUANTITY**

The *Quantity* field in the resource. This value overrides the default and interval values.

### **DEVIATION**

The *Deviation* field. You use this field to make a temporary adjustment to quantity. IBM Z Workload Scheduler adds quantity and deviation together to decide the amount that operations can allocate. For example, if quantity is 10 and deviation is -3, operations can allocate up to 7 of the resource.

You specify these keywords to invoke monitoring through RODM:

## **RODMTASK**

Is specified on the OPCOPTS statement for the controller and for each tracker that communicates with a RODM subsystem.

## **RODMPARM**

Is specified on the OPCOPTS statement for the controller and identifies the member that contains RODMOPTS statements in the parameter library.

## **RODMOPTS**

Is specified for a controller and contains destination and subscription information.

A RODMOPTS statement is required for each field in every resource that you want to monitor. Each statement is used to subscribe to a field in a RODM class or RODM object for a field in a special resource. The RODM field value is used to set the value of the resource field.

RODMOPTS statements are read when the controller is started. When a tracker that communicates with RODM is started, it requests parameters from the controller. The controller sends subscription information to the tracker, which then subscribes to RODM. An event is created when RODM returns a value, which is used to update the special resource field in the current plan. IBM Z Workload Scheduler does not schedule operations that use a special resource until RODM has returned the current field value and IBM Z Workload Scheduler has updated the resource.

To use RODM monitoring you must ensure that:

- A tracker is started on the same z/OS image as the RODM subsystem that requests are sent to, and RODMTASK(YES) is specified for both the tracker and the controller.
- An event writer is started in the IBM Z Workload Scheduler address space that communicates with RODM. This address space creates resource events (type S) from RODM notifications, which IBM Z Workload Scheduler uses to update the current plan.
- The controller is connected to the tracker through XCF, NCF, TCP/IP, or a submit/release data set.
- Each address space has a unique RACF® user ID if more than one IBM Z Workload Scheduler address space communicates with a RODM subsystem, such as when you start production and test systems that subscribe to the same RODM subsystem.

IBM Z Workload Scheduler does not load or maintain data models in the RODM cache, or require a specific data model. You need not write programs or methods to use RODM through IBM Z Workload Scheduler, or define specific objects or fields in RODM. IBM Z Workload Scheduler does not update RODM-defined data.

RODM fields have several subfields. The RODM field that IBM Z Workload Scheduler subscribes to must have a *notify* subfield. Through a subscription to this subfield, RODM notifies the product of changes to the *value* subfield. IBM Z Workload Scheduler uses changes to the value subfield to monitor special resources. But only these data types are valid for IBM Z Workload Scheduler RODM support:

**Table 4. Valid RODM data types for value subfields**

| Abstract data type | Data type ID |
|--------------------|--------------|
| CharVar (Char)     | 4            |
| Integer (Bin 31)   | 10           |
| Smallint (Bin 15)  | 21           |

IBM Z Workload Scheduler maintains a RODM status for all special resources in the current plan. You can check the current status in the SPECIAL RESOURCE MONITOR dialog. Each special resource has one of these values:

**N**

Not monitored. The special resource is not monitored through RODM.

**I**

Inactive. Monitoring is not currently active. IBM Z Workload Scheduler sets this status for all subscriptions to a RODM subsystem that the controller cannot communicate with. This can occur when communication is lost with RODM or with the tracker. The controller sets the value of each monitored field according to the RODMLOST keyword of RODMOPTS.

**P**

Pending. IBM Z Workload Scheduler has sent a subscription request to RODM, but RODM has not returned a value.

**A**

Active. IBM Z Workload Scheduler has received a value from RODM and the special resource field has been updated.

RODM support is implemented using the RODM USER API. IBM Z Workload Scheduler loads RODM interface module EKGUAPI, which must be accessible via LINKLST or STEPLIB.

The RODM subtask is attached by the subsystem task. The subtask creates a new queue (RODQ) and a table with 1 entry for each active subscription. The table also contains 1 system entry for each connected RODM subsystem. Each subscription entry contains data received from RODM for the subscription and parameter list areas, including the ECB, used for all asynchronous requests.

RODM and IBM Z Workload Scheduler interface in this way:

- The queue server contains a *work-to-do* loop, which waits on an ECB list. Initially, this ECB list contains a stop ECB and a queue ECB. The RODM subtask connects and disconnects RODM.
- Inbound subscription messages are placed on the RODM queue (RODQ) by the IBM Z Workload Scheduler subsystem task. When a message is detected on the queue, a new subscription entry is added to the table. For the first subscription request to a RODM subsystem, a system entry is also created in the table and a system ECB and a RODM-stop ECB are added to the ECB list.

- A query is issued to the RODM subsystem. The current value is translated and then passed to the writer queue (WTRQ).
- A subscribe is performed and the program goes into WAIT on the ECB list.
- When the subscribe ECB is posted by RODM, the RODM subtask retrieves information from the subscription queue and builds a resource event, which it puts on the WTRQ. All other entries in the table are checked for posted ECBs and the program then returns to a WAIT state.
- The event manager analyzes the incoming resource event and updates the special resource field.

This processing continues until the subtask is stopped or the RODM subsystem ends. If RODM ends, entries in the table are reset. The entries are reprocessed when RODM returns. If the RODM subtask ends, requests outstanding are processed when the subtask is restarted. If IBM Z Workload Scheduler is stopped, all subscriptions are deleted.

## Submit (SU)

The submit (SU) subtask initiates these functions: job submit, job release, started-subtask initiation, and WLM job promotion. When the submit subtask receives a request, for example, to submit a job, it checkpoints the submit sequence-number, loads the corresponding JCL in a storage buffer, and submits this to the internal reader. If the submit is successful, a submit event (type IJ1, IJ2, IJ3, IWTO, IREL, or IWLM) is built, and a subsystem request is issued to broadcast the event-creation routine. If there is no more work for the submit subtask to process, a WAIT is entered.

The submitter task is part of the tracker, but job submission is initiated by the workstation analyzer (WA) task of the controller. Checkpointing of submission requests is the means by which the two tasks cooperate to ensure that all requests for submission are honored.

When the connection between the controller and a tracker is initially established, and subsequently each time the connection is reestablished after some disruption, the controller requests synchronization. A synch request is sent for each workstation defined with a destination of the particular tracker to synchronize submit requests, as some requests might have been lost because of a bad connection or tracker outage. The tracker responds to the request by issuing a synchronization response event, which is written to the event data and communicated to the controller in the same way as other job-tracking events. The event is prefixed IJ0 (see [Data areas on page 99](#) for control block mapping) and contains checkpoint information that describes the number of submit events processed by the tracker. When the controller reads the synchronization response event, a check is made to determine the number of submit requests that should have been processed by the tracker. If there is a discrepancy, the controller resends the submit request.

Operations that have been rerouted to an alternate workstation will not be resubmitted.

If the tracker, during normal processing, receives a submit request out of order, the request is discarded, and an out-of-sequence synchronization event is created. Upon receipt of this event, the controller immediately suspends job submission for new operations and resends all requests for the reportedly lost job submission request and all following requests. The lost submit-event record is also prefixed IJ0.

## Releasing a job on a JES2 system

On a JES2 system, the IBM Z Workload Scheduler release routine does the following:

- If the job is a local job, sends a status request to JES2 to verify that the job is known to, and held by, JES2
- If the job is a local job, builds a release command in the following format:

```
$AJnnnnn          (nnnnn is job number)
```

- If the job is a remote job, builds a release command in the following format:

```
$G A node, 'jobname', Jnnnnn, 0=orgnode
```

- Sends the release command to JES2 using SVC 34.

## Releasing a job on a JES3 system

On a JES3 system, the IBM Z Workload Scheduler release routine does the following:

- If the job is a local job, sends a status request to JES3 to verify that the job is known to, and held by, JES3
- If the job is a local job, builds a release command in the following format:

```
*F J=nnnn,R          (nnnn is job number)
```

- If the job is a remote job, builds a release command in the following format:

```
*T node *F J=rnnn,R  (rnnn is remote job number)
```

- Sends the release command to global JES3, using IATSSCM1.

On JES3 Version 2 Release 2 (or later) systems, the command is sent to JES3 using SVC 34.

Note that the remote release command assumes that the remote system is a JES3 system.

## TCP/IP tracker connection (IP)

The TCP/IP tracker connection (IP) subtask connects standard z/OS® tracker to the Z controller through the Transmission Control Protocol/Internet Protocol (TCP/IP). This task enables IPV6 and IPV4 standards, and SSL authentication and encryption.

The IP task has a queue in the controller and tracker named TIPQ, where the Data Router (DX) task tails the events that will be managed by the task.

The IP task runs on the controller and tracker.

## IP task on controller side

On the controller, the IP task opens a main socket where it receives the connection requests from the trackers. The IP task is always waiting for an event; iteration is done if the task receives an event.

The main events that the IP task can receive are:

- There is work on the TIPQ.
- There is a connection request from a tracker (connect() from tracker).
- There are bytes to be read on a socket (write() from tracker).
- Bytes are to be written on a socket (write() to tracker).

- A started task stop request must be processed.
- The loop timeout has expired.
- Task abnormal end.

When the IP task receives an event, it starts iterating and checks:

1. Whether the loop timeout has expired or an abnormal end occurred.
2. The reading sockets to verify if:
  - There is a connection request from a tracker on the task main socket.

The task checks that the IP address or host name and the port number match with the IP addresses, host names, and port numbers specified in the initialization parameters. If any value is not valid or already in use, the connection requested is not established.

- There are bytes to be received from trackers

If there are, they are received by the controller.

3. The task queue. If there is work on the TIPQ, the IP task stores the entries in another internal queue of the task for later processing.
4. The write sockets to verify if there is a connection() or write() request pending for the remote tracker that must be processed. The request result is checked.
5. Whether there are entries in the internal queue. If there are, the IP task processes the DQE and sends the data to the remote trackers.

## IP task on tracker side

The IP task on the tracker decides to connect to the controller. The controller is always waiting for the connection request passively. The tracker must always be connected to the controller. If the connection goes down, the tracker tries to establish it again until it succeeds or the tracker is stopped; the error message handling at tracker side is the following:

- The error messages display is enabled at initialization time.
- The error messages display is disabled after a TCP/IP connection problem (EQQIP15E or EQQIP17I are issued in the message log), so that the following connection retries will not issue error messages.
- The error messages display is re-enabled when a connection is successful; an informational message informing about the restored connection is issued (EQQIP12I).

The IP task is always waiting for an event; iteration is done if the task receives an event.

The main events that the IP task can receive are:

- There is work on the TIPQ.
- There are bytes to be read on a socket (write() from controller).
- Bytes are to be written on a socket (write() to controller).
- A started task stop request must be processed.

- The loop timeout has expired.
- Task abnormal end.

When the IP task receives an event, it starts iterating and checks:

1. Whether the loop timeout has expired or an abnormal end occurred.
2. The reading sockets. If there are bytes to be received from controller, the IP task receives the bytes.

If some buffer received is completed, the received information is checked: if this is a DQE from the controller, the task enqueues the information on the data router queue (RTRQ). If the connection to the controller is not established, the tracker tries to connect even if the loop timeout has expired.

3. The task queue. If there is work on the TIPQ, the IP task stores the entries in another internal queue of the task for later processing.
4. The write sockets to verify if there is a connection() or write() request pending for the controller that must be processed. The request result is checked.
5. Whether there are entries in the internal queue. If there are, the IP task processes the DQE and sends the data to the remote trackers.

## Workstation analyzer (WA)

The workstation analyzer (WA) subtask analyzes operations (jobs, started tasks, and WTO messages) that are ready to start at:

- Automatically reporting computer workstations
- Nonreporting workstations
- General workstations that have the WTO option specified.

For each active workstation that is defined in the CP, the WA sends a synchronization request, to the related submit task.

For a detailed description of the submit checkpoint mechanism, see [Submit \(SU\) on page 88](#). The workstation analyzer identifies the most urgent operation to be submitted from a list of ready operations. When an operation is selected, the JCL for the operation must be retrieved. The WA searches for the JCL in the following order:

- JCL repository (JS file).
- Partitioned data set indicated by the JOBLIBRARY operation user field.
- Data set indicated by the EQQUX002 exit, if the exit is present.
- EQQJBLIB partitioned data set concatenation.

Variable substitution is performed for the JCL if required, and the job input is imaged to the JCL repository. The EQQUX001 is called if present. A submit request, which includes the JCL and specified destination, is queued to the data router (DX) task. The workstation analyzer updates the current plan and creates a job-tracking record TRL25 to record the submit request. The operation status is changed to SU to indicate that submission is in progress.

Variable substitution is performed for the System Automation command text if required, and the result is also saved as CPLREC33. The EQQXSAZ is called, if present. A submit request, which includes the System Automation command and

specified destination, is queued to the data router (DX) task. The workstation analyzer updates the current plan and creates a tracking record to track the submit request. The operation status is changed to SU, to indicate that submission is in progress.

The WA subtask also processes any workstation operation that has a deadline WTO message specified. Operations with a deadline WTO message that have reached their latest start times are always selected first. This process continues while there are operations that can be started. The workstation analyzer subtask then waits for more work to arrive or for the next scheduled event to occur. The WA resends submit requests for operations that are flagged as having lost their submit requests.

If you specify the LATEOPER or DURATION keywords on the ALERT initialization statement, the WA is responsible for issuing the relevant alert when the condition is detected.

If you specify the WLM initialization statement, the WA regularly checks if an operation has reached particular time limits that activate the policy. These limits are specified either by default, in the WLM initialization statement and valid for all critical operations or by you, in the Modify Current® Plan or the Application Description environment and valid only for the particular operation. In these instances, the WA sends a request to the related submit task for WLM promotion.



**Note:** On fault-tolerant workstations, the WA subtask manages only non-centralized scripts that have some dependencies on special resources or centralized scripts. Non-centralized scripts without any dependencies on special resources are managed by the batchman process of the fault-tolerant workstations on which the job is scheduled.



**Note:** If the Workstation Analyzer subtask has no operations to schedule, it is woken up every two minutes so that message EQQE038I can be issued with two minutes of delay.

## When an operation is eligible to be started

An operation can be started when:

- The workstation is active (that is, the controller can communicate with it), is open, and has an available parallel server (or the WA has been requested not to use parallel servers in scheduling decisions). For jobs on a fault-tolerant workstation, the workstation must be linked active, CPULIMIT must be nonzero, and the jobs running on the workstation must be fewer than the CPULIMIT set.
- The status of the operation is either ready or arrived, and the manual hold (MH) CP function has not been specified.
- The manual release (MR) CP function has been specified, following a manual hold (MH) request for the operation.
- The duration of the operation is such that the operation can be processed during the time that its associated workstation remains open. This is dependent on what has been specified in the shutdown policy defined in the SHUTDOWN parameter of the JTOPTS initialization statement. See *Customization and Tuning*.
- Either the operation does not use any special resources, or it uses special resources that are available and that can satisfy the allocation criteria.



The operation specifies a quantity and type for each allocation. Quantity is a number from 1 to 999999, or blank. Blank means the current maximum quantity of the special resource. The type is either shared (other operations can share the allocation concurrently) or exclusive (the operation must be the only user of the allocated quantity).

If an operation needs a special resource that is not defined in the current plan, IBM Z Workload Scheduler uses the DYNAMICADD keyword of the RESOPTS statement to determine if it creates the required special resource dynamically.

- Job submission has not been prevented for this operation.
- The execute (EX) CP function has been requested for this operation.
- There have been no errors during a previous attempt to start this operation.
- This is either a normal (non-time-dependent) operation, or it is a time job that can be started now.

A time job is an operation on a computer workstation that should start at a particular time, as opposed to the normal IBM Z Workload Scheduler situation where an operation is started when all its predecessors are complete.

A time job can have the cancel-if-late attribute. If so, it might not be started after its start time has passed, depending on the SUPPRESSPOLICY parameter specified for the IBM Z Workload Scheduler system in the JTOPTS initialization statement. Refer to *Customization and Tuning*.

- Either the operation does not use any workstation resources, or it does not use more workstation resources than are available.

A workstation resource is related to a specific workstation. For example, you can specify that one workstation has 2 optical readers and 10 tape units. Operations that need tapes or optical readers should then be defined so that IBM Z Workload Scheduler knows how many are needed to start the operation. If this is done, operations do not start (by the WA) on this workstation unless there are enough tapes and optical readers available.

## Operation priority

If there is more than one operation that can be started, the WA scheduler selects an operation by investigating these characteristics in the stated order:

1. Priority 9.
2. Earlier latest-start time.

The latest-start time is calculated internally by IBM Z Workload Scheduler, and is the latest time (based on the operation duration) that the operation must start if it is to be completed before its deadline. If no deadline is specified for the operation, IBM Z Workload Scheduler uses the occurrence deadline and subtracts the duration for each successor operation on the critical path.

3. Priority 8–1.
4. Shortest estimated duration.
5. First-in first-out basis.

## Retrieving JCL

The WA retrieves JCL for the job that is ready to be started and sends it to a submit subtask via the data router (DX) subtask. The WA extracts the JCL for the job from:

- The JS data set, if the JCL to be used is saved there.
- The data set indicated by the EQQUX002 job-library-read exit, if the exit is requested by the EXITS initialization statement.
- The IBM Z Workload Scheduler job library (EQQJBLIB).
- The EQQUX001 job-submit exit, if requested.
- A user-defined JCL imbed exit, or EQQJBLIB, if the FETCH directive is included in the `//*%OPC` JCL statement.

Operations handled by the external router (EX) subtask are not required to have JCL fetched by the controller, instead the JCL may be fetched by the operation-initiation exit, EQQUX009, or located at the receiving user-defined destination. If JCL can be located by the controller it will be processed and passed to the EX task, and subsequently to EQQUX009, as normal.

The values for any JCL variables that are present in the JCL are retrieved from JCL variable tables or from a user-defined JCL-variable-substitution exit. When the job is found, the JCL is retrieved and, if necessary, a new JS record is built.

When a JCL directive statement is actioned, it is changed by IBM Z Workload Scheduler to a JCL comment statement. JCL directive statements are defined in the job input as z/OS® JCL statements. The statement is changed when the operation is submitted to a valid comment statement for the target operating system. The image of the job input in the JCL repository is not altered.

Subtask initialization consists of building the WA environment and opening all required files.

Subtask mainline logic consists of providing service for the following events:

- Timer expiration. Trying to find an operation to be started.
- Post the work ECB. Trying to find an operation to be started.
- Subtask stop request.

Subtask termination consists of closing all open files.

## Data store network common function (FN)

This is the task that handles the SNA communication between the controller and Data Store (the XCF Connection is handled by the FL task). Its internal logic is similar to the NCF task.

## Data store TCP/IP communication task (ID)

This is the task that handles the TCP/IP communication between the controller and Data Store. Its internal logic is similar to the IP task.

## Fetch joblog (FL)

This task is in charge of the Joblog Retrieval and Restart and Clean up functions. It communicates with the Data Store address space to get joblog (Joblog Retrieval) and structured joblog data information (Restart and Clean up).

It is also in charge of starting the local data store used for storing the oper\_info structures.

The task is queue-driven. The queues are:

### **ARCQ**

SSX queue used for controller/FL communication.

### **ANCQ**

Internal queue used for data store/FL communication.

Controller requests to FL are sent via DQE of type "ARC":

#### **Type=LOG**

Get z/OS® joblog

#### **Type=OPI**

Ask Oper\_info structure

#### **Type=SDEL**

Start deletion of old entries in local data store

## Pre-submitter task (PSU)

This task is in charge of the JCL tailoring needed to implement the Restart and Cleanup function. It adds the EQQCLEAN pre-step to the JCL in order to:

1. Execute a step restart.
2. Execute a clean up.

PSU interacts with the following other tasks:

- GS
- WSA
- FL
- SU

The task is queue-driven. Its SSX queue is the PSUQ.

Requests to PSU are sent via DQE of type "PSU":

#### **Type=APL**

Apply logic: tailor JCL to do clean up and/or step restart

### **Type=CLN**

Stand-alone clean up: create a new job to execute clean up

## **IBM Z Workload Scheduler data store subtasks**

### **Writer**

This triggers the reading process for the SYSOUT data, and stores it in the database. More than one Writer task can be active at the same time, to allow parallel operations of SYSOUT data analysis.

### **Reader**

This looks for SYSOUT data in the database and transmits it to the requesting Controller. Every time the Controller asks the Communication subtask for a SYSOUT, The Communication subtask activates the reader. If the Reader does not find the SYSOUT in the Database, then the JES Queue reader is activated.

### **JesQueue**

This triggers the reading process of the job IDs found in the spool classes reserved for the Data Store, and then stores the same IDs in a queue, so allowing the synchronization of the different requests for the active Writer subtasks.

### **Communication**

This performs the following main functions:

- Links the IBM Z Workload Scheduler controller by SNA or XCF connection type, depending on the startup parameters
- Receives job SYSOUT requests from the IBM Z Workload Scheduler dialog and forwards them to the Data Store reader component
- Sends the data requested by the Controller.

### **Command**

This is the interface between the operator and the Data Store. The Command subtask manages all the external Data Store commands.

### **Cleanup**

This component manages the deletion of SYSOUTs from the database, according to the selection criteria specified in the parameters member whose name corresponds to the CLNPARM parameter in the DSTOPTS initialization statements.

### **User exit and task relationships**

[Table 5: User exits in IBM Z Workload Scheduler on page 97](#) and [Table 6: User exit and task relationships on page 97](#) show the subsystems in which each user exit of IBM Z Workload Scheduler is run. [Table 5: User exits in IBM Z Workload](#)

[Scheduler on page 97](#) lists the user exits and assigns them a key heading that you can match in [Table 6: User exit and task relationships on page 97](#) to find the corresponding subsystem and task.

**Table 5. User exits in IBM Z Workload Scheduler**

| Exit Name    | Exit Type                          | Heading in <a href="#">Table 6: User exit and task relationships on page 97</a> |
|--------------|------------------------------------|---------------------------------------------------------------------------------|
| EQQUX000     | Start/Stop                         | 0                                                                               |
| EQQUX001     | Job-Submit                         | 1                                                                               |
| EQQUX002     | Job-Library-Read                   | 2                                                                               |
| EQQUX003     | Application-Description-Feedback   | 3                                                                               |
| EQQUX004     | Event-Filtering                    | 4                                                                               |
| EQQUX005     | SYSOUT Archiving                   | 5                                                                               |
| EQQUX006     | Incident-Record-Create             | 6                                                                               |
| EQQUX007     | Operation-Status-Change            | 7                                                                               |
| EQQUX009     | Operation-Initiation               | 9                                                                               |
| EQQUX011     | Job-Tracking Log Write             | 11                                                                              |
| EQQUX013     | Job-Tailoring Prevention           | 1                                                                               |
| EQQUXPIF     | Application-Description-Validation | AV                                                                              |
| EQQXSAZ      | System Automation command          | SAZ                                                                             |
| User defined | JCL-Imbed (FETCH Directive)        | JCL                                                                             |
| User defined | JCL-Variable-Substitution          | JVAR                                                                            |
| User defined | Automatic-Job-Recovery             | AR                                                                              |
| User defined | Daily-Planning-Report              | DP                                                                              |

[Table 6: User exit and task relationships on page 97](#) shows whether each exit is executed in the Controller, the Tracker, or in a batch program. Tracker exits are run also in the Controller if the Controller has an Event Writer task; that is, if EWTRTASK(YES) is specified in OPCOPTS.

**Table 6. User exit and task relationships**

| Subsystem  | Task                   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 11 | JCL | JVAR | AR | DP | AV | SAZ |
|------------|------------------------|---|---|---|---|---|---|---|---|---|----|-----|------|----|----|----|-----|
| All        | System Task Dispatcher | X |   |   |   |   |   |   |   |   |    |     |      |    |    |    |     |
| Controller | Automatic Recovery     |   |   |   | S |   |   |   | S |   | S  |     |      | S  |    |    |     |

**Table 6. User exit and task relationships (continued)**

| Subsystem               | Task                   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 11 | JCL | JVAR | AR | DP | AV | SAZ |
|-------------------------|------------------------|---|---|---|---|---|---|---|---|---|----|-----|------|----|----|----|-----|
| Controller              | Event Manager          |   |   |   | S |   |   |   | S |   | S  |     |      |    |    |    |     |
| Controller              | External Router        |   |   |   |   |   |   |   |   | X |    |     |      |    |    |    |     |
| Controller              | General Service        |   |   | S | S |   |   |   | S |   | S  | S   | S    |    |    |    |     |
| Controller              | Normal Mode Manager    |   |   |   | S |   |   |   | S |   | S  |     |      |    |    |    |     |
| Controller              | Workstation Analyzer   |   | S | S | S |   |   |   | S |   | S  | S   | S    |    |    |    | S   |
| Trackers/<br>Controller | Event Writer           |   |   |   |   | X |   |   |   |   |    |     |      |    |    |    |     |
| Trackers/<br>Controller | Job Completion Checker |   |   |   |   |   | X | X |   |   |    |     |      |    |    |    |     |
| Batch                   | Daily Planning         |   |   |   |   |   |   |   |   |   |    |     |      |    | X  |    |     |
| PIF                     | AD Validation          |   |   |   |   |   |   |   |   |   |    |     |      |    |    | X  |     |

**Notes:**

1. The S mark means that the execution in the part of the task where the exit is run is subject to serialization. The X mark implies that there is no serialization.
2. When a task operates on a resource, it holds it exclusively. Normally the resource is the current plan. While the task is updating the current plan, no other task can reference the current plan at the same time.
3. An exit should avoid processing, such as I/O operations, that may result in system waits and must not perform requests to the IBM Z Workload Scheduler program interface.
4. Termination of the Job Completion Checker exits (EQQUX005 and EQQUX006) precludes the ending of the connected job.

# Chapter 5. Data areas

This chapter provides graphic representation of many data areas used by IBM Z Workload Scheduler. This publication attempts to provide the information that is most often needed, not all data areas are documented here. In general, any of the following specifications were considered to qualify a data area for inclusion in this publication:

- The data area is a physical record mapping
- The data area is used extensively in debugging

Data areas appear alphabetically, by name of the mapping macro. The data areas in this publication are not intended to be used as a customer user interface. The areas are product sensitive and can be changed at any time during the current release without documentation updates to this publication.

## The data area map

The data area is described field by field. These field descriptions are taken directly from the system code.

For each field in the data area, the table provides the following information:

**Offsets**

The address of the field, shown in both decimal and hexadecimal (hexadecimal address in parentheses), relative to the beginning of the data area.

**Type**

The kind of program data defined for this field, such as CHARACTER, SIGNED, UNSIGNED.

**Len**

Size of the field in bytes (decimal).

**Name**

The name of the field, bit, or mask.

Bit or mask names are preceded by a description of the bit position and values, as follows:

|      |      |                                      |
|------|------|--------------------------------------|
| 1... | .... | Refers to bit 0.                     |
| .... | ..11 | Refers to bits 6 and 7.              |
| ...1 | .... | Refers to bit 3.                     |
| 11.. | 1111 | Refers to bits 0, 1, 4, 5, 6, and 7. |

**Description**

A description of the purpose or meaning of the field, bit, or mask.

## The cross-reference table

For each data area with more than 40 fields, a cross-reference table shows the following:

- *Hex Offset*: The hexadecimal offset of the field into the data area (for bits, the hexadecimal offset of the field containing the bit).
- *Hex Value*: Hex values are shown only for bits. The Hex value shown implies the position of the bit in the field containing the bit. For an example illustrating how to use the Hex Value, see the bit DOACMD\_FAIL in the DOA data area.

In the DOA data area, the cross-reference table for the DOACMD\_FAIL bit looks like this:

**Table 7. Cross-reference table for DOACMD\_FAIL**

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| DOACMD_FAIL | 8F         | 80        | 3     |

In the mapping of the DOA, the DOACMD\_FAIL bit appears like this:

**Table 8. Mapping of the DOA**

| Dec | Hex  | Type      | Len | Name        | Description          |
|-----|------|-----------|-----|-------------|----------------------|
| 143 | (8F) | BITSTRING | 1   | DOAFLAG3    | FLAG BYTE            |
|     |      | 1... ..   |     | DOACMD_FAIL | OP COMMAND FAIL FLAG |

Hex Offset 8F is the offset of field DOAFLAG3, a 1-byte field. The first bit in this field is named DOACMD\_FAIL. Ignoring the other bits in the field DOAFLAG3, if the DOACMD\_FAIL bit is on, the value of field DOAFLAG3 would be 1000 0000, which is equivalent to hex 80. This value (hex 80) is shown in the Hex Value column of the cross-reference table. When a bit is on, the condition described in the Description field of the mapping is true.

## Date formats used in IBM Z Workload Scheduler

Different components of IBM Z Workload Scheduler use different formats to represent dates, as described hereafter.

**Table 9. Date formats used in IBM Z Workload Scheduler**

| IBM Z Workload Scheduler component        | Date format | Length | Date type     |
|-------------------------------------------|-------------|--------|---------------|
| Controller                                | YYMMDD      | 6      | Internal date |
|                                           | 0nYYDDDF    | 4      | Time stamp    |
| Trackers                                  | YYMMDD      | 6      | Real date     |
|                                           | 0nYYDDDF    | 4      | Time stamp    |
| Description databases                     | YYMMDD      | 6      | Internal date |
| Batch loader and SYSIN for batch programs | YYMMDD      | 6      | Real date     |



**Table 9. Date formats used in IBM Z Workload Scheduler (continued)**

| IBM Z Workload Scheduler component | Date format                               | Length | Date type           |
|------------------------------------|-------------------------------------------|--------|---------------------|
| Dialogs and reports                | Defined by the user, for example YY/MM/DD | 8      | Real date           |
| Exits                              | YYMMDD                                    | 6      | Real date           |
|                                    | 0nYYDDDF                                  | 4      | Time stamp          |
| Programming interfaces             | YYMMDD                                    | 6      | Defined by the user |

**Note:**

1. Real date means that 1 January 1998 is represented as 980101.
2. For the internal date, IBM Z Workload Scheduler uses 1972 as the base year for the century window. This means that the year 1972 is represented as 00 and 2071 is represented as 99.
3. The z/OS time stamp uses 00YYDDDF for dates in the 20th century, and 01YYDDDF for dates in the 21st century.
4. The date format of the programming interfaces depends on the base year of the PIF century window defined by the PIFCWB keyword of the INTFOPTS statement, or the CWBASE keyword of the INIT statement. 00 implies real dates. 72 corresponds to the IBM Z Workload Scheduler internal date format.

## ADR - application description

### Example

Name : DCLADR

Function:

This segment declares an application or job description in the application description database (EQQADDs)

The AD record is structured as follows:

- 1 adr
- 2 common data
- 2 run cycles ( )
- 3 number of positive offsets ( )
- 3 number of negative offsets ( )
- 3 rule ( )
- 2 application predecessors ( )
- 2 lobs ( )
- 2 operations ( )

3 internal predecessors ( )  
 3 external predecessors ( )  
 3 external predecessors intervals ( )  
 3 special resources ( )  
 3 extended info ( )  
 3 system automation info ( )  
 3 condition information( )  
 3 condition dependency( )  
 3 condition dependency intervals( )  
 3 user fields( )  
 3 remote engine info( )  
 3 variable operation values( )  
 3 user defined late info( )

The following structures and pointers are defined:

adr based(adrptr) common section  
 adrrun based(runptr) run cycle section  
 adrdep based(depptr) application dependency  
 adrlob lobs (not used)  
 adrop based(opptr) operation section  
 adropint internal predecessors section  
 adropext based(extptr) external pred. section  
 adropext based(extptr) external pred. section  
 adropextivl external pred. intervals  
 adropsrs resource section  
 adrop\_extinfo section  
 adrop\_autoinfo section  
 adrop\_cond\_info  
 adrop\_cond\_simple  
 adropcextivl condition dep. intervals  
 adrop\_reng\_info remote engine info  
 adrop\_vdurdead variable operation values  
 adrop\_late user defined late info

Offsets to first run cycle and first operation are saved in the fixed part of the record. Run cycles and operations are chained together by offsets from beginning of each segment.

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | *   | adr        |             |

## Fixed part of common data

| Offsets |      |           |     |                |                            |
|---------|------|-----------|-----|----------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                |
| 0       | (0)  | CHARACTER | 208 | adrcommon      |                            |
| 0       | (0)  | CHARACTER | 2   | *              | used by IO routines        |
| 2       | (2)  | CHARACTER | 23  | adrkey         | key of the record          |
| 2       | (2)  | CHARACTER | 16  | adrid          | application id             |
| 18      | (12) | CHARACTER | 1   | adrstat        | status and type adgc       |
| 19      | (13) | CHARACTER | 6   | adrto          | valid to                   |
| 25      | (19) | CHARACTER | 4   | adreye         | eye catcher                |
| 29      | (1D) | UNSIGNED  | 1   | adrvers        | version number             |
| 30      | (1E) | CHARACTER | 6   | adrfrom        | valid from                 |
| 36      | (24) | CHARACTER | 24  | adrdescr       | descriptive text           |
| 60      | (3C) | CHARACTER | 8   | adrgroup       | authority group name       |
| 68      | (44) | CHARACTER | 16  | adrowner       | owner id                   |
| 84      | (54) | CHARACTER | 24  | adrodesc       | owner description          |
| 108     | (6C) | CHARACTER | 1   | adrfieldsflags | fields flags               |
|         |      | 1... ..   |     | adrinfoison    | additional info is present |
|         |      | .1.. ..   |     | adrservice     | service is active          |
|         |      | ..11 1111 |     | *              | free                       |
| 109     | (6D) | CHARACTER | 6   | adrldate       | last update date           |
| 115     | (73) | CHARACTER | 4   | adrltime       | last update time           |
| 119     | (77) | CHARACTER | 8   | adrluser       | last update userID         |
| 127     | (7F) | CHARACTER | 1   | adrprior       | priority                   |
| 128     | (80) | CHARACTER | 3   | adrdsf         | Deadline smoothing factor  |
| 131     | (83) | CHARACTER | 3   | adrdlim        | Deadline feedback limit    |
| 134     | (86) | SIGNED    | 2   | adrop          | total number of operations |
| 136     | (88) | SIGNED    | 4   | adrrun         | total number of runcycles  |

## Offsets and flags

| Offsets |      |           |     |               |                                            |
|---------|------|-----------|-----|---------------|--------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                |
| 140     | (8C) | SIGNED    | 4   | adrfrun       | offset to first runcycle                   |
| 144     | (90) | SIGNED    | 4   | adrfop        | offset to first op                         |
| 148     | (94) | CHARACTER | 1   | adrflags      | ad flags                                   |
|         |      | 1... ..   |     | adrerd        | deadline cannot be met                     |
|         |      | .1.. ..   |     | adrjobd       | 1 application is job description compliant |
|         |      | ..1. .... |     | adrmon        | 1 any mon. job in appl                     |
|         |      | ...1 .... |     | adrcaldef     | work bit, off in DB                        |
|         |      | .... 1111 |     | *             | free                                       |
| 149     | (95) | CHARACTER | 16  | adrcal        | calendar identity                          |
| 165     | (A5) | CHARACTER | 16  | adrgroupid    | group application adga                     |
| 181     | (B5) | CHARACTER | 3   | *             | free                                       |
| 184     | (B8) | SIGNED    | 4   | adrdep£       | number of application predecessors         |
| 188     | (BC) | SIGNED    | 4   | adrfddep      | first adrdep offset                        |
| 192     | (C0) | CHARACTER | 8   | *             | free                                       |
| 200     | (C8) | CHARACTER | 8   | adrluts       | last update timestamp                      |
| 208     | (D0) | CHARACTER | 16  | adrAdFolderId | AD folder ID                               |
| 224     | (E0) | SIGNED    | 4   | adrAdFolder#  | AD folder ID is local                      |
| 228     | (E4) | CHARACTER | 12  | *             | free                                       |
| 240     | (F0) | CHARACTER | *   | adrvarsect    | variable length section                    |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 160 | adrrun     |             |

## Run cycle definition

| Offsets |      |           |     |                |                                                 |
|---------|------|-----------|-----|----------------|-------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                     |
| 0       | (0)  | SIGNED    | 4   | adrrnrun       | offset to next runcycle rel to beginning of adr |
| 4       | (4)  | SIGNED    | 2   | adrr           | run cycle number                                |
| 6       | (6)  | CHARACTER | 8   | adrrper        | period name, rule name                          |
| 14      | (E)  | SIGNED    | 2   | adrrnpos       | number of pos offsets                           |
| 16      | (10) | SIGNED    | 2   | adrrneg        | number of neg offsets                           |
| 18      | (12) | UNSIGNED  | 1   | adrrule        | free day rule                                   |
| 19      | (13) | CHARACTER | 6   | adrrfrom       | run cycle valid from                            |
| 25      | (19) | CHARACTER | 6   | adrrout        | run cycle not valid from                        |
| 31      | (1F) | CHARACTER | 50  | adrrdesc       | run cycle description                           |
| 81      | (51) | CHARACTER | 1   | adrrtype       | run cycle type see rc type constants            |
| 82      | (52) | CHARACTER | 4   | adrrari        | input arrival time                              |
| 86      | (56) | CHARACTER | 6   | adrrdead       | deadline                                        |
| 86      | (56) | CHARACTER | 2   | adrrday        | deadline day rel. to start                      |
| 88      | (58) | CHARACTER | 4   | adrrtime       | deadline time                                   |
| 92      | (5C) | CHARACTER | 16  | adrrjvt        | jcl var table name                              |
| 108     | (6C) | SIGNED    | 2   | adrrrdlen      | rule definition length                          |
| 110     | (6E) | CHARACTER | 4   | adrrvyrr       | EVERY repeat range                              |
| 114     | (72) | CHARACTER | 4   | adrrvyet       | EVERY end time                                  |
| 118     | (76) | CHARACTER | 2   | *              | free                                            |
| 120     | (78) | SIGNED    | 4   | adrrshift      | SHIFT                                           |
| 124     | (7C) | CHARACTER | 1   | adrrshtype     | W D work day day                                |
| 125     | (7D) | CHARACTER | 3   | *              | free                                            |
| 128     | (80) | CHARACTER | 8   | adrruleper (4) | rule periods                                    |
| 160     | (A0) | CHARACTER |     | adrrunend      | end of run cycle def                            |

Application predecessor definition

| Offsets |      |           |     |                  |                                                                 |
|---------|------|-----------|-----|------------------|-----------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description                                                     |
| 0       | (0)  | STRUCTURE | 100 | adrdep           | application predecessor                                         |
| 0       | (0)  | SIGNED    | 4   | adrondep         | offset to next application predecessor                          |
| 4       | (4)  | CHARACTER | 22  | adrdeprr         | application predecessor id                                      |
| 4       | (4)  | CHARACTER | 16  | adrdepad         | application predecessor ad id                                   |
| 20      | (14) | CHARACTER | 6   | adrdepop         | application predecessor operation id                            |
| 20      | (14) | CHARACTER | 4   | adrdep_wsid      | work station id                                                 |
| 24      | (18) | SIGNED    | 2   | adrdep_opno      | operation number                                                |
| 26      | (1A) | CHARACTER | 4   | adrdeprr         | transport time (not used)                                       |
| 30      | (1E) | CHARACTER | 50  | adrdepde         | description                                                     |
| 80      | (50) | CHARACTER | 1   | adrdepltp        | print option                                                    |
| 81      | (51) | CHARACTER | 1   | adrdepflg        | flags                                                           |
|         |      | 1... ..   |     | adrdepwrk        | work                                                            |
|         |      | .111 1111 | *   |                  |                                                                 |
| 82      | (52) | CHARACTER | 1   | adrdepXCsel      | C (closest prec) S (same day) R (relative ivl) A (absolute ivl) |
| 83      | (53) | CHARACTER | 1   | adrdepXMand      | P (plan) C (control) N (no)                                     |
| 84      | (54) | CHARACTER | 1   | adrdepIVL_typ    | IVL type: A absolute R relative                                 |
| 85      | (65) | *         | 1   |                  |                                                                 |
| 86      | (56) | CHARACTER | 7   | adrdepIVLfr      | FROM IVL                                                        |
| 86      | (56) | CHARACTER | 1   | adrdepIVLfr_when | B or A                                                          |
| 87      | (57) | CHARACTER | 1   | adrdepIVLfr_day  | from 0 to 7 day (DAYS)                                          |
| 88      | (58) | CHARACTER | 3   | adrdepIVLfr_HHH  | from 000 to 167 (HOURS                                          |
| 88      | (58) | CHARACTER | 1   | *                |                                                                 |
| 89      | (59) | CHARACTER | 2   | adrdepIVLfr_HH   | from 00 to 23 (HOURS)                                           |
| 91      | (5B) | CHARACTER | 2   | adrdepIVLfr_MM   | from 00 to 59 (MINUTES)                                         |
| 93      | (5D) | CHARACTER | 7   | adrdepIVLTo      | TO IVL                                                          |
| 93      | (5D) | CHARACTER | 1   | adrdepIVLTo_when | B or A                                                          |
| 94      | (5E) | CHARACTER | 1   | adrdepIVLTo_day  | from 0 to 7 day (DAYS)                                          |

| Offsets |      |           |     |                      |                              |
|---------|------|-----------|-----|----------------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)           | Description                  |
| 95      | (5F) | CHARACTER | 3   | adrdepIVLTo_HHH      | from 000 to 167 (HOURS)      |
| 95      | (5F) | CHARACTER | 1   | *                    |                              |
| 96      | (60) | CHARACTER | 2   | adrdepIVLTo_HH       | From 00 to 23 (HOURS)        |
| 98      | (62) | CHARACTER | 2   | adrdepIVLTo_MM       | From 00 to 59 (MINUTES)      |
| 100     | (64) | CHARACTER | 80  | adrRE_JSFolderShort  | Job Stream Folder (if short) |
| 180     | (B4) | CHARACTER | 16  | adrRE_JSFolderLongId | Job Stream Folder Id (long)  |
| 196     | (C4) | CHARACTER | 9   | *                    | free                         |

| Offsets |     |           |     |              |                   |
|---------|-----|-----------|-----|--------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description       |
| 0       | (0) | STRUCTURE | *   | adrrdaypos   | positive run days |
| 0       | (0) | CHARACTER | 3   | adrrdayp (*) | run day offsets   |

| Offsets |     |           |     |              |                   |
|---------|-----|-----------|-----|--------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description       |
| 0       | (0) | STRUCTURE | *   | adrrdayneg   | negative run days |
| 0       | (0) | CHARACTER | 3   | adrrdayn (*) | run day offsets   |

| Offsets |     |           |     |             |                                                                                      |
|---------|-----|-----------|-----|-------------|--------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                                                                          |
| 0       | (0) | STRUCTURE | *   | adrrrdefseg | rule definition segment follows the variable number of positive and negative offsets |
| 0       | (0) | CHARACTER | *   | adrrrdef    | rule definition value                                                                |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 128 | adrop      |             |

Operation definition

| Offsets |      |            |     |            |                                           |
|---------|------|------------|-----|------------|-------------------------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim) | Description                               |
| 0       | (0)  | SIGNED     | 4   | adronop    | offset to next op rel to beginning of adr |
| 4       | (4)  | CHARACTER  | 6   | adropid    | operation id                              |
| 4       | (4)  | CHARACTER  | 4   | adrwsid    | workstation                               |
| 8       | (8)  | SIGNED     | 2   | adropno    | operation number                          |
| 10      | (A)  | CHARACTER  | 24  | adropdes   | operation description                     |
| 34      | (22) | SIGNED     | 4   | adropdur   | dura, 100th of sec                        |
| 38      | (26) | CHARACTER  | 3   | adropsm    | smoothing factor                          |
| 41      | (29) | CHARACTER  | 3   | adroplim   | limit for feedback                        |
| 44      | (2C) | CHARACTER  | 1   | adropaec   | auto error completion YN                  |
| 45      | (2D) | CHARACTER  | 8   | adropjn    | job name                                  |
| 53      | (35) | CHARACTER  | 1   | adropjcl   | job class                                 |
| 54      | (36) | SIGNED     | 2   | adrophrc   | highest rc not in error                   |
| 56      | (38) | CHARACTER  | 1   | adroppcl   | print class                               |
| 57      | (39) | CHARACTER  | 8   | adropfor   | form number                               |
| 65      | (41) | CHARACTER  | 6   | adropst    | earliest start                            |
| 65      | (41) | CHARACTER  | 2   | adropstd   | relative day                              |
| 67      | (43) | CHARACTER  | 4   | adropstt   | start time                                |
| 71      | (47) | CHARACTER  | 6   | adropded   | deadline                                  |
| 71      | (47) | CHARACTER  | 2   | adropdd    | relative day                              |
| 73      | (49) | CHARACTER  | 4   | adropdt    | start time                                |
| 77      | (4D) | CHARACTER  | 1   | adropflg   | operation flags                           |
|         |      | 1... ....  |     | adropajr   | automatic cpu release                     |
|         |      | .1... .... |     | adropwk1   | not used                                  |
|         |      | ..1. ....  |     | adropcan   | suppress if late & timejob                |
|         |      | ...1 ....  |     | adropcim   | submit job on time                        |
|         |      | .... 1...  |     | adropwk2   | not used                                  |
|         |      | .... .1..  |     | adropsub   | automatic submit                          |



| Offsets |      |           |     |               |                                                                                                             |
|---------|------|-----------|-----|---------------|-------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                                                 |
|         |      | .... ..1. |     | adhracs       | highest rc (adrophrc) set                                                                                   |
|         |      | .... ...1 |     | adropwto      | deadline wto                                                                                                |
| 78      | (4E) | SIGNED    | 2   | adopr1        | ws resource amount requird                                                                                  |
| 80      | (50) | BITSTRING | 1   | adropflg2     | Adrop flags                                                                                                 |
|         |      | 1... .... |     | adropcondrjob | Cond Recovery job                                                                                           |
|         |      | .111 .... |     | *             | free                                                                                                        |
|         |      | .... 1... |     | adropnop      | nop job                                                                                                     |
|         |      | .... .1.. |     | adropmh       | manually hold job                                                                                           |
|         |      | .... ..11 |     | *             | reserved                                                                                                    |
| 81      | (51) | UNSIGNED  | 1   | adroptemp     | temp for ws info                                                                                            |
| 82      | (52) | SIGNED    | 2   | adopr2        | ws resource amount requird                                                                                  |
| 84      | (54) | CHARACTER | 2   | *             | free                                                                                                        |
| 86      | (56) | SIGNED    | 2   | adropps       | no. of servers used                                                                                         |
| 88      | (58) | SIGNED    | 2   | adopin        | no. of internal pred.                                                                                       |
| 90      | (5A) | SIGNED    | 2   | adropex       | no. of external pred.                                                                                       |
| 92      | (5C) | SIGNED    | 2   | adropsr       | no. of special resources                                                                                    |
| 94      | (5E) | CHARACTER | 1   | adrop_rerut   | op rerouteable                                                                                              |
| 95      | (5F) | CHARACTER | 1   | adrop_resta   | op restartable                                                                                              |
| 96      | (60) | CHARACTER | 1   | adropcm       | catalog management, cata A = Automatic, D90Ccata I = Immediate, D90Ccata M = Manual, D90Ccata N = None cata |
| 97      | (61) | UNSIGNED  | 1   | adtrtemp      | temp for retrieval d19a D23A-start                                                                          |
| 98      | (62) | CHARACTER | 2   | adropwlm      | WLM fields                                                                                                  |
| 98      | (62) | CHARACTER | 1   | adropjobcrt   | Critical Job                                                                                                |
| 99      | (63) | CHARACTER | 1   | adropjobpol   | Late Jobe Policy D23A--end                                                                                  |
| 100     | (64) | CHARACTER | 1   | adrflag2      | D90A                                                                                                        |
|         |      | 1... .... |     | adrop_UserSYS | 1 = Need User Sysout D90A                                                                                   |
|         |      | .1.. .... |     | adrop_ExpJCL  | 1 = Need Expanded JCLD90A                                                                                   |

| Offsets |      |            |     |                 |                                                                    |
|---------|------|------------|-----|-----------------|--------------------------------------------------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)      | Description                                                        |
|         |      | ...1. .... |     | ADROPMON        | 1 monitor the job                                                  |
|         |      | ...1 ....  |     | adropscrip      | 1 central scrip used                                               |
|         |      | .... 1111  |     | *               |                                                                    |
| 101     | (65) | UNSIGNED   | 1   | adropExtInf     | Extended JobName area 0 = not allocated 1 = allocated              |
| 102     | (66) | CHARACTER  | 1   | adrop_UseExtInf | Extended JobName info N = not used Y = used                        |
| 103     | (67) | CHARACTER  | 1   | adrop_UseSEinf  | Scheduling Env. Name CCUA N = not used CCUA Y = used CCUA          |
| 104     | (68) | UNSIGNED   | 1   | adropAutInf     | Automation Info areaCHWA 0 = not allocated CHWA 1 = allocated CHWA |
| 105     | (69) | CHARACTER  | 1   | adrop_UseAutInf | Sys Automation info CHWA N = not used CHWA Y = used CHWA           |
| 106     | (6A) | CHARACTER  | 8   | adropWLMClass   | WLM Service class                                                  |
| 114     | (72) | SIGNED     | 2   | adropUF         | Number of User Fields                                              |
| 116     | (74) | SIGNED     | 2   | adropCC         | Number of Cond                                                     |
| 118     | (76) | SIGNED     | 2   | adropCS         | Number of Simple Cond                                              |
| 120     | (78) | UNSIGNED   | 1   | adrop_Reng      | Remote engine area 0 = not allocated 1 = allocated                 |
| 121     | (79) | CHARACTER  | 1   | *               | free (total)                                                       |
| 122     | (7A) | SIGNED     | 2   | adropexIVL      | Nbr of NORMAL ext d IVL                                            |
| 124     | (7C) | SIGNED     | 2   | adropCI         | Total Cond IVL                                                     |
| 126     | (7E) | SIGNED     | 2   | adrop£dd        | Total variable values                                              |
| 128     | (80) | SIGNED     | 4   | adropdurvar     | Estimated duration variance                                        |
| 132     | (84) | SIGNED     | 1   | adrop£late      | 1 late section exists (950 increased size from here)               |
| 133     | (85) | CHARACTER  | 1   | adropdeadACT    | Deadline action                                                    |
| 134     | (86) | CHARACTER  | 6   | *               | free                                                               |
| 128     | (80) | CHARACTER  |     | adropFixEnd     | End adrop                                                          |

## Operation dependencies

| Offsets |     |           |     |              |                        |
|---------|-----|-----------|-----|--------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description            |
| 0       | (0) | STRUCTURE | 16  | adropint (*) | internal dependencies. |
| 0       | (0) | CHARACTER | 6   | adroppre     | predecessor id         |
| 0       | (0) | CHARACTER | 4   | adrip_wsid   | work station id        |
| 4       | (4) | SIGNED    | 2   | adrip_opno   | operation number       |
| 6       | (6) | CHARACTER | 4   | adroptrt     | transport time         |
| 6       | (6) | CHARACTER | 2   | adrophh      | hours                  |
| 8       | (8) | CHARACTER | 2   | adropmm      | minutes                |
| 10      | (A) | CHARACTER | 6   | *            | free                   |

| Offsets |      |           |     |               |                                                                         |
|---------|------|-----------|-----|---------------|-------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                             |
| 0       | (0)  | STRUCTURE | 84  | adropext (*)  | external dependencies.                                                  |
| 0       | (0)  | CHARACTER | 22  | adropepr      | predecessor id                                                          |
| 0       | (0)  | CHARACTER | 16  | adropead      | external predecessor ad id                                              |
| 16      | (10) | CHARACTER | 6   | adropeop      | predecessor id                                                          |
| 16      | (10) | CHARACTER | 4   | adrep_wsid    | work station id                                                         |
| 20      | (14) | SIGNED    | 2   | adrep_opno    | operation number                                                        |
| 22      | (16) | CHARACTER | 4   | adropetr      | transport time                                                          |
| 26      | (1A) | CHARACTER | 50  | adropede      | description                                                             |
| 76      | (4C) | CHARACTER | 1   | adropitp      | ltp print option                                                        |
| 77      | (4D) | CHARACTER | 1   | adropeflg     | flags                                                                   |
|         |      | 1... ..   |     | adropewrk     | work                                                                    |
|         |      | .111 1111 |     | *             |                                                                         |
| 78      | (4E) | CHARACTER | 1   | adrXCsel      | - C (closest prec) - S (same day) - R (relative ivl) - A (absolute ivl) |
| 79      | (4F) | CHARACTER | 1   | adrXMandatory | - P (plan) - C (control) - N (no)                                       |

| Offsets |      |           |     |             |             |
|---------|------|-----------|-----|-------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description |
| 80      | (50) | CHARACTER | 4   | *           |             |
| 84      | (54) | CHARACTER |     | adropextEND |             |

ADROPEXTIVL Operation external dependencies IVL  
the number of them is get from adropextIVL ADROP

| Offsets |     |           |     |                 |             |
|---------|-----|-----------|-----|-----------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)      | Description |
| 0       | (0) | STRUCTURE | 40  | adropextIVL (*) |             |

Pred key

| Offsets |      |           |     |                  |                  |
|---------|------|-----------|-----|------------------|------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description      |
| 0       | (0)  | CHARACTER | 22  | adropextIVL_key  | pred id          |
| 0       | (0)  | CHARACTER | 16  | adropextIVL_Adid | - ext pred ADID  |
| 16      | (10) | CHARACTER | 6   | adropextIVL_op   | - predecessor id |
| 16      | (10) | CHARACTER | 4   | adropextIVL_wsid | WSID             |
| 20      | (14) | SIGNED    | 2   | adropextIVL_opno | OP NUMBER        |

IVL info

| Offsets |      |           |     |                    |             |
|---------|------|-----------|-----|--------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description |
| 22      | (16) | CHARACTER | 1   | adropextIVL_typ    | A=abs R=rel |
| 23      | (17) | CHARACTER | 3   | *                  |             |
| 26      | (1A) | CHARACTER | 7   | adropextIVLFr      |             |
| 26      | (1A) | CHARACTER | 1   | adropextIVLfr_when | BA          |
| 27      | (1B) | CHARACTER | 1   | adropextIVLfr_day  | 0 to 7 days |
| 28      | (1C) | CHARACTER | 3   | adropextIVLfr_HHH  | 000 to 167  |
| 28      | (1C) | CHARACTER | 1   | *                  |             |
| 29      | (1D) | CHARACTER | 2   | adropextIVLfr_HH   | 00 to 23    |
| 31      | (1F) | CHARACTER | 2   | adropextIVLfr_MM   | 00 to 59    |
| 33      | (21) | CHARACTER | 7   | adropextIVLTo      |             |
| 33      | (21) | CHARACTER | 1   | adropextIVLto_when | BA          |
| 34      | (22) | CHARACTER | 1   | adropextIVLto_day  | 0 to 7 days |
| 35      | (23) | CHARACTER | 3   | adropextIVLto_HHH  | 000 to 167  |
| 35      | (23) | CHARACTER | 1   | *                  |             |
| 36      | (24) | CHARACTER | 2   | adropextIVLto_HH   | 00 to 23    |
| 38      | (26) | CHARACTER | 2   | adropextIVLto_MM   | 00 to 59    |

ADROPSRS resources for this operation

the number of ADROPSRS is get from adropsr ADROP

| Offsets |     |           |     |              |                   |
|---------|-----|-----------|-----|--------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description       |
| 0       | (0) | STRUCTURE | 64  | adropsrs (*) | special resources |

Resources for this operation

| Offsets |      |           |     |             |                                           |
|---------|------|-----------|-----|-------------|-------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                               |
| 0       | (0)  | CHARACTER | 44  | adropsrn    | name resource                             |
| 44      | (2C) | SIGNED    | 4   | adropsra    | numeric amount                            |
| 48      | (30) | CHARACTER | 1   | adropsrt    | s = shared, x = exclusive                 |
| 49      | (31) | CHARACTER | 1   | adropsrk    | Keep on error flag Y , N , blank          |
| 50      | (32) | CHARACTER | 1   | adropsrAVAc | Set SR availability to Y , N , R or blank |
| 51      | (33) | CHARACTER | 13  | *           | free                                      |

| Offsets |     |           |     |               |             |
|---------|-----|-----------|-----|---------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description |
| 0       | (0) | STRUCTURE | 200 | adrop_ExtInfo |             |

2A Extended Information for this operation \$CCUC

22A

| Offsets |      |           |     |              |                           |
|---------|------|-----------|-----|--------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description               |
| 0       | (0)  | CHARACTER | 54  | adropEXTname | Extended Job Name         |
| 54      | (36) | CHARACTER | 16  | adropSEname  | Scheduling Env. Name CCUA |
| 70      | (46) | CHARACTER | 130 | *            | free 22ACCUC CHWA         |

| Offsets |     |           |     |                |                                |
|---------|-----|-----------|-----|----------------|--------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description                    |
| 0       | (0) | STRUCTURE | 336 | adrop_AutoInfo | Automation Info CHWA CHWA CHWA |

\$CH

WA Automation info for this operation \$CHWA

\$CHWA

| Offsets |       |           |     |                |                       |
|---------|-------|-----------|-----|----------------|-----------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)     | Description           |
| 0       | (0)   | CHARACTER | 256 | adropCommText  | SA op command texCHWA |
| 0       | (0)   | CHARACTER | 64  | adropCommText1 | op com line 1 CHWA    |
| 64      | (40)  | CHARACTER | 64  | adropCommText2 | op com line 2 CHWA    |
| 128     | (80)  | CHARACTER | 64  | adropCommText3 | op com line 3 CHWA    |
| 192     | (C0)  | CHARACTER | 63  | adropCommText4 | op com line 4 CHWA    |
| 255     | (FF)  | CHARACTER | 1   | adropFiller    | Reserved CHWA         |
| 256     | (100) | CHARACTER | 8   | adropAutoOper  | SA automated operCHWA |
| 264     | (108) | CHARACTER | 8   | adropSecElem   | SA security elem CHWA |
| 272     | (110) | CHARACTER | 64  | adropComplInfo | SA completion infCHWA |

| Offsets |     |           |     |                     |             |
|---------|-----|-----------|-----|---------------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)          | Description |
| 0       | (0) | STRUCTURE | 32  | adrop_COND_INFO (*) |             |
| 0       | (0) | SIGNED    | 2   | adropCO_ID          |             |
| 2       | (2) | SIGNED    | 2   | adropCO_SimpNo      |             |
| 4       | (4) | SIGNED    | 2   | adropCO_Type        |             |
| 6       | (6) | SIGNED    | 2   | adropCO_Count       |             |
| 8       | (8) | CHARACTER | 24  | adropCO_Descr       |             |

| Offsets |      |           |     |                       |             |
|---------|------|-----------|-----|-----------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)            | Description |
| 0       | (0)  | STRUCTURE | 56  | adrop_COND_SIMPLE (*) |             |
| 0       | (0)  | SIGNED    | 2   | adropSC_ID            |             |
| 2       | (2)  | CHARACTER | 22  | adropSC_Predid        |             |
| 2       | (2)  | CHARACTER | 16  | adropSC_preAD         |             |
| 18      | (12) | CHARACTER | 6   | adropSC_preOP         |             |
| 18      | (12) | CHARACTER | 4   | adropSC_prewsid       |             |
| 22      | (16) | SIGNED    | 2   | adropSC_preopno       |             |
| 24      | (18) | CHARACTER | 2   | adropSC_PreTyp        | RC or ST    |

| Offsets |      |           |     |                |                            |
|---------|------|-----------|-----|----------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                |
| 26      | (1A) | CHARACTER | 2   | adropSC_PreLog | GE,GT,EQ,LT,LE,NE,RG       |
| 28      | (1C) | CHARACTER | 4   | adropSC_ValRC  |                            |
| 32      | (20) | CHARACTER | 4   | adropSC_ValRC2 |                            |
| 36      | (24) | CHARACTER | 1   | adropSC_ValST  |                            |
| 37      | (25) | CHARACTER | 1   | adropSC_DepTyp | I=INT E=EXT                |
| 38      | (26) | CHARACTER | 1   | adropSC_Csel   | CSRA mat criteria not used |
| 39      | (27) | BITSTRING | 1   | adropSC_Flags  |                            |
|         |      | 1... ..   |     | adropSC_wrk    |                            |
|         |      | .1... ..  |     | adropSC_manP   | mandatory P                |
|         |      | ..1. .... |     | adropSC_manC   | mandatory C                |
|         |      | ...1 1111 |     | *              |                            |
| 40      | (28) | CHARACTER | 8   | adropSC_Step   | STEPNAME                   |
| 48      | (30) | CHARACTER | 8   | adropSC_PStep  | PROCSTEP                   |

## ADROPCONDCEXTIVL

Matching criteria info for external cond pred

NOTE we can have only one ADROPEXTIVL

for each ext cond dep but the total number of these intervals is get from adropCOExtIVL

| Offsets |     |           |     |                        |             |
|---------|-----|-----------|-----|------------------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)             | Description |
| 0       | (0) | STRUCTURE | 36  | adrop_Cond_CextIVL (*) |             |

pred key

| Offsets |      |           |     |                     |             |
|---------|------|-----------|-----|---------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)          | Description |
| 0       | (0)  | CHARACTER | 16  | adropCextIVL_Adid   | ADID        |
| 16      | (10) | SIGNED    | 2   | adropCextIVL_Opnum  | Opnum       |
| 18      | (12) | SIGNED    | 2   | adropCextIVL_CondId | CondId      |



## IVL info

| Offsets |      |           |     |                     |             |
|---------|------|-----------|-----|---------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)          | Description |
| 20      | (14) | CHARACTER | 1   | adropCextIVL_typ    | A=abs R=rel |
| 21      | (15) | CHARACTER | 1   | *                   | free        |
| 22      | (16) | CHARACTER | 7   | adropCextIVLfr      |             |
| 22      | (16) | CHARACTER | 1   | adropCextIVLfr_when | BA          |
| 23      | (17) | CHARACTER | 1   | adropCextIVLfr_day  | 0 to 7 days |
| 24      | (18) | CHARACTER | 3   | adropCextIVLfr_HHH  | 000 to 167  |
| 24      | (18) | CHARACTER | 1   | *                   |             |
| 25      | (19) | CHARACTER | 2   | adropCextIVLfr_HH   | 00 to 23    |
| 27      | (1B) | CHARACTER | 2   | adropCextIVLfr_MM   | 00 to 59    |
| 29      | (1D) | CHARACTER | 7   | adropCextIVLTo      |             |
| 29      | (1D) | CHARACTER | 1   | adropCextIVLto_when | BA          |
| 30      | (1E) | CHARACTER | 1   | adropCextIVLto_day  | 0 to 7 days |
| 31      | (1F) | CHARACTER | 3   | adropCextIVLto_HHH  | 000 to 167  |
| 31      | (1F) | CHARACTER | 1   | *                   |             |
| 32      | (20) | CHARACTER | 2   | adropCextIVLto_HH   | 00 to 23    |
| 34      | (22) | CHARACTER | 2   | adropCextIVLto_MM   | 00 to 59    |

| Offsets |      |           |     |                      |             |
|---------|------|-----------|-----|----------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)           | Description |
| 0       | (0)  | STRUCTURE | 74  | adrop_UserFields (*) |             |
| 0       | (0)  | CHARACTER | 16  | adropUF_Name         | Field name  |
| 16      | (10) | CHARACTER | 54  | adropUF_Value        | Field value |
| 70      | (46) | CHARACTER | 4   | *                    | not used    |

| Offsets |     |           |     |                 |             |
|---------|-----|-----------|-----|-----------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)      | Description |
| 0       | (0) | STRUCTURE | 200 | adrop_reng_info |             |

| Offsets |      |           |     |                    |                       |
|---------|------|-----------|-----|--------------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description           |
| 0       | (0)  | CHARACTER | 16  | adropRE_jsname     | ad id                 |
| 16      | (10) | CHARACTER | 1   | adropRE_shadow     | Y for shadow jobs     |
| 17      | (11) | CHARACTER | 3   | adropRE_opno       | operation number IWSz |
| 20      | (14) | CHARACTER | 40  | adropRE_jobname    | job name IWSd         |
| 60      | (3C) | CHARACTER | 16  | adropRE_jsws       | jobstream ws IWSd     |
| 76      | (4C) | CHARACTER | 1   | adropRE_comp       | complete on bind err  |
| 77      | (4D) | CHARACTER | 1   | adropRE_isMand     | PCN mandatory         |
| 78      | (4E) | CHARACTER | 1   | adropRE_cSel       | CSRA mat criteria     |
| 79      | (4F) | CHARACTER | 16  | adropRE_IVL        |                       |
| 79      | (4F) | CHARACTER | 1   | *                  | free                  |
| 80      | (50) | CHARACTER | 1   | *                  | free                  |
| 81      | (51) | CHARACTER | 7   | adropRE_IVLFr      |                       |
| 81      | (51) | CHARACTER | 1   | adropRE_IVLfr_when | BA                    |
| 82      | (52) | CHARACTER | 1   | adropRE_IVLfr_day  | 0 to 7 days           |
| 83      | (53) | CHARACTER | 3   | adropRE_IVLfr_HHH  | 000 to 167            |
| 83      | (53) | CHARACTER | 1   | *                  |                       |
| 84      | (54) | CHARACTER | 2   | adropRE_IVLfr_HH   | 00 to 23              |
| 86      | (56) | CHARACTER | 2   | adropRE_IVLfr_MM   | 00 to 59              |
| 88      | (58) | CHARACTER | 7   | adropRE_IVLTo      |                       |
| 88      | (58) | CHARACTER | 1   | adropRE_IVLto_when | BA                    |
| 89      | (59) | CHARACTER | 1   | adropRE_IVLto_day  | 0 to 7 days           |
| 90      | (5A) | CHARACTER | 3   | adropRE_IVLto_HHH  | 000 to 167            |
| 90      | (5A) | CHARACTER | 1   | *                  |                       |
| 91      | (5B) | CHARACTER | 2   | adropRE_IVLto_HH   | 00 to 23              |
| 93      | (5D) | CHARACTER | 2   | adropRE_IVLto_MM   | 00 to 59              |
| 95      | (5F) | CHARACTER | 105 | *                  | free                  |

## Operation Fields at Run Cycle Level

| Offsets |      |           |     |                 |                                          |
|---------|------|-----------|-----|-----------------|------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description                              |
| 0       | (0)  | STRUCTURE | 1   | adrop_vDurDead  | Variable duration and deadline           |
| 0       | (0)  | INTEGER   | 4   | adropvddur      | Variable duration, 100th of seconds      |
| 4       | (4)  | CHARACTER | 6   | adropvdeadd     | Variable deadline                        |
| 4       | (4)  | CHARACTER | 2   | adropvdeadd     | Variable deadline: relative day          |
| 6       | (6)  | CHARACTER | 4   | adropvdeadt     | Variable deadline: time                  |
| 10      | (A)  | BITSTRING | 1   | adropvflg       | Variable flags                           |
|         |      | 1111 .... | *   |                 | Reserved                                 |
|         |      | .... 1... |     | adropvnp        | Variable NOP job                         |
|         |      | .... .1.. |     | adropvmh        | Variable Manually Hold job               |
|         |      | .... ..1. |     | adropvnopspec   | Variable NOP specified                   |
|         |      | .... ...1 |     | adropvmhspec    | Variable Manually Hold specified         |
| 11      | (B)  | CHARACTER | 1   | adropvcrit      | Variable critical job (N,P, W, or blank) |
| 12      | (C)  | CHARACTER | 8   | adropvddrg      | Variable run cycle name                  |
| 20      | (14) | UNSIGNED  | 4   | adropvddva      | Duration variance (950 increased size)   |
| 24      | (18) | CHARACTER | 1   | adropvdeadAct   | Deadline action                          |
| 25      | (19) | CHARACTER | 8   | adropvLATE1     | Not started alert                        |
| 25      | (19) | CHARACTER | 1   | adropvLATE1Base | Base date: always F Occurrence IA        |
| 26      | (1A) | CHARACTER | 1   | adropvLATE1DIR  | Direction: always A After date           |
| 27      | (1B) | CHARACTER | 2   | adropvLATE1dd   | Day offset                               |
| 29      | (1D) | CHARACTER | 4   | adropvLATE1dt   | Time                                     |
| 33      | (21) | CHARACTER | 8   | adropvLATE2     | Not started action                       |
| 33      | (21) | CHARACTER | 1   | adropvLATE2Base | Base date: always F Occurrence IA        |
| 34      | (22) | CHARACTER | 1   | adropvLATE2DIR  | Direction: always A After date           |
| 35      | (23) | CHARACTER | 2   | adropvLATE2dd   | Day offset                               |
| 37      | (25) | CHARACTER | 4   | adropvLATE2dt   | Time                                     |
| 41      | (29) | CHARACTER | 1   | adropvLATE2act  | Action                                   |
| 42      | (2A) | CHARACTER | 2   | *               | Free                                     |

## Operation User-Defined Late Info

| Offsets |      |           |     |               |                                   |
|---------|------|-----------|-----|---------------|-----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                       |
| 0       | (0)  | STRUCTURE | 20  | adrop_late    | Late info section                 |
| 0       | (0)  | CHARACTER | 9   | adroplate1    | Not started alert                 |
| 0       | (0)  | CHARACTER | 1   | adropBasedat1 | Base date: always F Occurrence IA |
| 1       | (1)  | CHARACTER | 1   | adropdir1     | Direction. always A After date    |
| 2       | (2)  | CHARACTER | 2   | adropLATE1dd  | Date offset                       |
| 4       | (4)  | CHARACTER | 4   | adropLATE1dt  | Time                              |
| 8       | (8)  | CHARACTER | 1   | adropLATE1act | Action: not used                  |
| 9       | (9)  | CHARACTER | 9   | adroplate2    | Not started action                |
| 9       | (9)  | CHARACTER | 1   | adropBasedat2 | BASE date: always F Occurrence IA |
| 10      | (A)  | CHARACTER | 1   | adropdir2     | Direction: always A After date    |
| 11      | (B)  | CHARACTER | 2   | adropLATE2dd  | Day offset                        |
| 13      | (D)  | CHARACTER | 4   | adropLATE2dt  | Time                              |
| 17      | (11) | CHARACTER | 1   | adropLATE2act | Action                            |
| 18      | (12) | CHARACTER | 2   | *             | Free                              |

## ADRINFO ADDITIONAL AD INFORMATION

| Offsets |      |           |     |                |                                                         |
|---------|------|-----------|-----|----------------|---------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                             |
| 0       | (0)  | STRUCTURE | 1   | ADRINFO        | ADR ADDITIONAL INFO                                     |
| 0       | (0)  | CHARACTER | 4   | ADRINFOEYE     | ADINFO EYE CATCHER. IT IS ALWAYS SET TO "ADRI".         |
| 4       | (4)  | UNSIGNED  | 1   | ADRINFOVER     | INFORMATION STRUCTURE VERSION. IT IS ALWAYS SET TO "1". |
| 5       | (5)  | CHARACTER | 11  | *              | FREE                                                    |
| 16      | (19) | CHARACTER | 16  | ADRSVCNAME     | SERVICE NAME                                            |
| 80      | (50) | CHARACTER | 16  | ADRSVCVARTABLE | SERVICE VARIABLE TABLE                                  |

| Offsets |       |           |     |                 |                            |
|---------|-------|-----------|-----|-----------------|----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)      | Description                |
| 96      | (60)  | CHARACTER | 256 | ADRSVCCONTACT   | CONTACT                    |
| 352     | (160) | UNSIGNED  | 4   | ADRTAGSNUM      | NUMBER OF TAGS             |
| 356     | (164) | UNSIGNED  | 4   | ADRSVCINFOLEN   | SERVICE INFORMATION LENGTH |
| 360     | (168) | CHARACTER |     | ADRINFOVARSTART | START OF VARIABLE SECTION  |

## ADRTAGS

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 1   | ADRTAGS    | TAG ARRAY   |
| 0       | (0) | CHARACTER | 16  | ADRTAG     | TAG VALUE   |

## ADRINFO ADDITIONAL AD INFORMATION

| Offsets |     |           |     |             |                                     |
|---------|-----|-----------|-----|-------------|-------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                         |
| 0       | (0) | STRUCTURE | 1   | ADRSVCINFO  | SERVICE GENERIC INFORMATION SECTION |
| 0       | (0) | CHARACTER | *   | ADRSVCDESCR | SERVICE DESCRIPTION                 |

## Cross reference

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| adr           | 0          |           | 1     |
| adradfolder#  | E0         |           | 4     |
| adradfolderId | D0         |           | 4     |
| adrcal        | 95         |           | 3     |
| adrcaldef     | 94         | 10        | 4     |
| adrccommon    | 0          |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| adrdep£    | B8         |           | 3     |
| adrdescr   | 24         |           | 3     |
| adrfdep    | BC         |           | 3     |
| adrdlim    | 83         |           | 3     |
| adrdsd     | 80         |           | 3     |
| adrep_opno | 14         |           | 4     |
| adrep_wsid | 10         |           | 4     |
| adrerd     | 94         | 80        | 4     |
| adreye     | 19         |           | 3     |
| adrflags   | 94         |           | 3     |
| adrflag2   | 64         |           | 2     |
| adrforp    | 90         |           | 3     |
| adrfrom    | 1E         |           | 3     |
| adrfrun    | 8C         |           | 3     |
| adrgrout   | 3C         |           | 3     |
| adrgroutid | A5         |           | 3     |
| adrhras    | 4D         | 02        | 3     |
| adrid      | 2          |           | 4     |
| adrip_opno | 4          |           | 3     |
| adrip_wsid | 0          |           | 3     |
| adrjobd    | 94         | 40        | 4     |
| adrkey     | 2          |           | 3     |
| adrldate   | 6D         |           | 3     |
| adrltime   | 73         |           | 3     |
| adrluser   | 77         |           | 3     |
| adrluts    | C8         |           | 3     |
| adrmon     | 94         | 20        | 4     |
| adrodasc   | 54         |           | 3     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| adronop            | 0          |           | 2     |
| adrop              | 0          |           | 1     |
| adrop_AutoInfo     | 0          |           | 1     |
| adrop_Cond_CextIVL | 0          |           | 1     |
| adrop_COND_INFO    | 0          |           | 1     |
| adrop_COND_SIMPLE  | 0          |           | 1     |
| adrop_ExpJCL       | 64         | 40        | 3     |
| adrop_ExtInfo      | 0          |           | 1     |
| adrop_Reng         | 78         |           | 2     |
| adrop_reng_info    | 0          |           | 1     |
| adrop_rerut        | 5E         |           | 2     |
| adrop_resta        | 5F         |           | 2     |
| adrop_UseAutInf    | 69         |           | 2     |
| adrop_UseExtInf    | 66         |           | 2     |
| adrop_UserFields   | 0          |           | 1     |
| adrop_UserSYS      | 64         | 80        | 3     |
| adrop_UseSEinf     | 67         |           | 2     |
| adrop              | 86         |           | 3     |
| adropCC            | 74         |           | 2     |
| adropCI            | 7C         |           | 2     |
| adropCS            | 76         |           | 2     |
| adropex            | 5A         |           | 2     |
| adropexIVL         | 7A         |           | 2     |
| adropin            | 58         |           | 2     |
| adropps            | 56         |           | 2     |
| adrop1             | 4E         |           | 2     |
| adrop2             | 52         |           | 2     |
| adropsr            | 5C         |           | 2     |

| Name                | Hex Offset | Hex Value | Level |
|---------------------|------------|-----------|-------|
| adropUF             | 72         |           | 2     |
| adropaec            | 2C         |           | 2     |
| adropajr            | 4D         | 80        | 3     |
| adropAutInf         | 68         |           | 2     |
| adropAutoOper       | 100        |           | 2     |
| adropcan            | 4D         | 20        | 3     |
| adropCextIVL_Adid   | 0          |           | 2     |
| adropCextIVL_ConcId | 12         |           | 2     |
| adropCextIVL_Opnum  | 10         |           | 2     |
| adropCextIVL_typ    | 14         |           | 2     |
| adropCextIVLFr      | 16         |           | 2     |
| adropCextIVLfr_day  | 17         |           | 3     |
| adropCextIVLfr_HH   | 19         |           | 4     |
| adropCextIVLfr_HHH  | 18         |           | 3     |
| adropCextIVLfr_MM   | 1B         |           | 3     |
| adropCextIVLfr_when | 16         |           | 3     |
| adropCextIVLTo      | 1D         |           | 2     |
| adropCextIVLto_day  | 1E         |           | 3     |
| adropCextIVLto_HH   | 20         |           | 4     |
| adropCextIVLto_HHH  | 1F         |           | 3     |
| adropCextIVLto_MM   | 22         |           | 3     |
| adropCextIVLto_when | 1D         |           | 3     |
| adropcm             | 60         |           | 2     |
| adropCO_Count       | 6          |           | 2     |
| adropCO_Descr       | 8          |           | 2     |
| adropCO_ID          | 0          |           | 2     |
| adropCO_SimpNo      | 2          |           | 2     |
| adropCO_Type        | 4          |           | 2     |



| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| adropCommText    | 0          |           | 2     |
| adropCommText1   | 0          |           | 3     |
| adropCommText2   | 40         |           | 3     |
| adropCommText3   | 80         |           | 3     |
| adropCommText4   | C0         |           | 3     |
| adropComplInfo   | 110        |           | 2     |
| adropcondrjob    | 50         | 80        | 3     |
| adropdd          | 47         |           | 3     |
| adropded         | 47         |           | 2     |
| adropdes         | A          |           | 2     |
| adropdt          | 49         |           | 3     |
| adropdur         | 22         |           | 2     |
| adropead         | 0          |           | 3     |
| adropede         | 1A         |           | 2     |
| adropeflg        | 4D         |           | 2     |
| adropeop         | 10         |           | 3     |
| adropepr         | 0          |           | 2     |
| adropetr         | 16         |           | 2     |
| adropewrk        | 4D         | 80        | 3     |
| adropext         | 0          |           | 1     |
| adropextEND      | 54         |           | 2     |
| adropExtInf      | 65         |           | 2     |
| adropextIVL      | 0          |           | 1     |
| adropextIVL_Adid | 0          |           | 3     |
| adropextIVL_key  | 0          |           | 2     |
| adropextIVL_op   | 10         |           | 3     |
| adropextIVL_opno | 14         |           | 4     |
| adropextIVL_typ  | 16         |           | 2     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| adropextIVL_wsid   | 10         |           | 4     |
| adropextIVLFr      | 1A         |           | 2     |
| adropextIVLfr_day  | 1B         |           | 3     |
| adropextIVLfr_HH   | 1D         |           | 4     |
| adropextIVLfr_HHH  | 1C         |           | 3     |
| adropextIVLfr_MM   | 1F         |           | 3     |
| adropextIVLfr_when | 1A         |           | 3     |
| adropextIVLTo      | 21         |           | 2     |
| adropextIVLto_day  | 22         |           | 3     |
| adropextIVLto_HH   | 24         |           | 4     |
| adropextIVLto_HHH  | 23         |           | 3     |
| adropextIVLto_MM   | 26         |           | 3     |
| adropextIVLto_when | 21         |           | 3     |
| adropEXTname       | 0          |           | 2     |
| adropFiller        | FF         |           | 3     |
| adropFixEnd        | 80         |           | 2     |
| adropflg           | 4D         |           | 2     |
| adropflg2          | 50         |           | 2     |
| adropfor           | 39         |           | 2     |
| adrophh            | 6          |           | 3     |
| adrophrc           | 36         |           | 2     |
| adropid            | 4          |           | 2     |
| adropint           | 0          |           | 1     |
| adropjcl           | 35         |           | 2     |
| adropjn            | 2D         |           | 2     |
| adropjobcrt        | 62         |           | 3     |
| adropjobpol        | 63         |           | 3     |
| adroplim           | 29         |           | 2     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| adropItp           | 4C         |           | 2     |
| adropmm            | 8          |           | 3     |
| ADROPMON           | 64         | 20        | 3     |
| adropno            | 8          |           | 3     |
| adroppcl           | 38         |           | 2     |
| adroppre           | 0          |           | 2     |
| adropRE_comp       | 4C         |           | 2     |
| adropRE_cSel       | 4E         |           | 2     |
| adropRE_isMand     | 4D         |           | 2     |
| adropRE_IVL        | 4F         |           | 2     |
| adropRE_IVLFr      | 51         |           | 3     |
| adropRE_IVLfr_day  | 52         |           | 4     |
| adropRE_IVLfr_HH   | 54         |           | 5     |
| adropRE_IVLfr_HHH  | 53         |           | 4     |
| adropRE_IVLfr_MM   | 56         |           | 4     |
| adropRE_IVLfr_when | 51         |           | 4     |
| adropRE_IVLTo      | 58         |           | 3     |
| adropRE_IVLto_day  | 59         |           | 4     |
| adropRE_IVLto_HH   | 5B         |           | 5     |
| adropRE_IVLto_HHH  | 5A         |           | 4     |
| adropRE_IVLto_MM   | 5D         |           | 4     |
| adropRE_IVLto_when | 58         |           | 4     |
| adropRE_jobname    | 14         |           | 2     |
| adropRE_jsname     | 0          |           | 2     |
| adropRE_jsws       | 3C         |           | 2     |
| adropRE_opno       | 11         |           | 2     |
| adropRE_shadow     | 10         |           | 2     |
| adropSC_Csel       | 26         |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| adropSC_DepTyp  | 25         |           | 2     |
| adropSC_Flags   | 27         |           | 2     |
| adropSC_ID      | 0          |           | 2     |
| adropSC_manC    | 27         | 20        | 3     |
| adropSC_manP    | 27         | 40        | 3     |
| adropSC_preAD   | 2          |           | 3     |
| adropSC_Predid  | 2          |           | 2     |
| adropSC_PreLog  | 1A         |           | 2     |
| adropSC_preOP   | 12         |           | 3     |
| adropSC_preopno | 16         |           | 4     |
| adropSC_PreTyp  | 18         |           | 2     |
| adropSC_prewsid | 12         |           | 4     |
| adropSC_PStep   | 30         |           | 2     |
| adropSC_Step    | 28         |           | 2     |
| adropSC_ValRC   | 1C         |           | 2     |
| adropSC_ValRC2  | 20         |           | 2     |
| adropSC_ValST   | 24         |           | 2     |
| adropSC_wrk     | 27         | 80        | 3     |
| adropscript     | 64         | 10        | 3     |
| adropSecElem    | 108        |           | 2     |
| adropSEname     | 36         |           | 2     |
| adropsm         | 26         |           | 2     |
| adropsra        | 2C         |           | 2     |
| adropsrAVAco    | 32         |           | 2     |
| adropsrk        | 31         |           | 2     |
| adropsrn        | 0          |           | 2     |
| adropsrs        | 0          |           | 1     |
| adropsrt        | 30         |           | 2     |

| Name                 | Hex Offset | Hex Value | Level |
|----------------------|------------|-----------|-------|
| adropst              | 41         |           | 2     |
| adropstd             | 41         |           | 3     |
| adropstt             | 43         |           | 3     |
| adropsub             | 4D         | 04        | 3     |
| adroptemp            | 51         |           | 2     |
| adroptim             | 4D         | 10        | 3     |
| adroptrt             | 6          |           | 2     |
| adropUF_Name         | 0          |           | 2     |
| adropUF_Value        | 10         |           | 2     |
| adropwk1             | 4D         | 40        | 3     |
| adropwk2             | 4D         | 08        | 3     |
| adropwlm             | 62         |           | 2     |
| adropWLMClass        | 6A         |           | 2     |
| adropwto             | 4D         | 01        | 3     |
| adrowner             | 44         |           | 3     |
| adrprior             | 7F         |           | 3     |
| addr                 | 4          |           | 2     |
| adr→i                | 52         |           | 2     |
| adrrday              | 56         |           | 3     |
| adrrdayn             | 0          |           | 2     |
| adrrdayneg           | 0          |           | 1     |
| adrrdayp             | 0          |           | 2     |
| adrrdaypos           | 0          |           | 1     |
| adrrdead             | 56         |           | 2     |
| adrrdesc             | 1F         |           | 2     |
| adrre_jsfolderlongid | B4         |           | 4     |
| adrre_jsfoldershort  | 64         |           | 4     |
| adrreveyet           | 72         |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| adrrevyrr     | 6E         |           | 2     |
| adrrfrom      | 13         |           | 2     |
| adrrjvt       | 5C         |           | 2     |
| adrrnneg      | 10         |           | 2     |
| adrrnpos      | E          |           | 2     |
| adrrnrun      | 0          |           | 2     |
| adrrout       | 19         |           | 2     |
| adrrper       | 6          |           | 2     |
| adrrrdef      | 0          |           | 2     |
| adrrrdefseg   | 0          |           | 1     |
| adrrrdlen     | 6C         |           | 2     |
| adrrshift     | 78         |           | 2     |
| adrrshtype    | 7C         |           | 2     |
| adrrtime      | 58         |           | 3     |
| adrrtype      | 51         |           | 2     |
| adrrule       | 12         |           | 2     |
| adrruleper    | 80         |           | 2     |
| adrrun        | 0          |           | 1     |
| adrrun        | 88         |           | 3     |
| adrrunend     | A0         |           | 2     |
| adrstat       | 12         |           | 4     |
| adrto         | 13         |           | 4     |
| adrttemp      | 61         |           | 2     |
| adrvarsect    | F0         |           | 2     |
| adrvers       | 1D         |           | 3     |
| adrwsid       | 4          |           | 3     |
| adrXCsel      | 4E         |           | 2     |
| adrXMandatory | 4F         |           | 2     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| adrdep           | 0          |           | 1     |
| adrondep         | 0          |           | 1     |
| adrdeprr         | 4          |           | 1     |
| adrdepad         | 4          |           | 2     |
| adrdepop         | 14         |           | 2     |
| adrdep_wsld      | 14         |           | 3     |
| adrdep_opno      | 18         |           | 3     |
| adrdeprr         | 1A         |           | 1     |
| adrdepde         | 1E         |           | 1     |
| adrdepltp        | 50         |           | 1     |
| adrdepflg        | 51         |           | 1     |
| adrdepXCsel      | 52         |           | 1     |
| adrdepXMand      | 53         |           | 1     |
| adrdepIVL_typ    | 54         |           | 1     |
| adrdepIVLFr      | 56         |           | 1     |
| adrdepIVLfr_when | 56         |           | 2     |
| adrdepIVLfr_day  | 57         |           | 2     |
| adrdepIVLfr_HHH  | 58         |           | 2     |
| adrdepIVLfr_HH   | 59         |           | 3     |
| adrdepIVLfr_MM   | 5B         |           | 3     |
| adrdepIVLTo      | 5D         |           | 1     |
| adrdepIVLTo_when | 5D         |           | 2     |
| adrdepIVLTo_day  | 5E         |           | 2     |
| adrdepIVLTo_HHH  | 5F         |           | 2     |
| adrdepIVLTo_HH   | 60         |           | 3     |
| adrdepIVLTo_MM   | 62         |           | 3     |

## AWSN - Actual workstation resource report record in DP

### Example

Name : DCLAWSN

Function:

Describes layout of parallel servers, R1 and R2 indicating the actual workstation load measured for these resources. There is one record for each workstation and 'day' in the plan. A 'day' starts/ends on the time given in PLANSTART. For each 15 minutes an amount is recorded of PS/R1/R2 resources required (according to the operation descriptions) multiplied by 15 planned server minutes for all operations with start-end contained in the interval (if 1/3 of the interval covered -  $1/3 \times \text{amount}$ ). An example: an operation running between 14.30 and 14.48 using 1 server, 50 R1, and 2 R2 will record 15 server minutes,  $15 \times 50$  R1 units and  $15 \times 2$  R2 units in the 14.30-14.45 slot and will record 3 server minutes,  $3 \times 50$  R1 units and  $3 \times 2$  R2 units in the 14.45-15.00 slot. The records have the standard recsize and keysize of DPIN records.

| Offsets |      |           |     |             |                                                    |
|---------|------|-----------|-----|-------------|----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                        |
| 0       | (0)  | STRUCTURE | 263 | AWSAREA     | PARALLEL SERV R1 R2 REC                            |
| 0       | (0)  | CHARACTER | 114 | AWSKEY      | KEY                                                |
| 0       | (0)  | SIGNED    | 2   | AWSTYPE     | ALWAYS TYPE 7                                      |
| 2       | (2)  | CHARACTER | 34  | *           |                                                    |
| 36      | (24) | CHARACTER | 4   | AWSWSID     | WORKSTATION ID                                     |
| 40      | (28) | SIGNED    | 2   | AWSSTYPE    | SUBTYPE SERVER MINUTES= 1<br>R1 = 2 R2 = 3         |
| 42      | (2A) | CHARACTER | 6   | AWSDATE     | REPORT 'DAY' (YYMMDD)                              |
| 48      | (30) | CHARACTER | 2   | AWSSTRNG    | R1 R2 STRING IN REPORTS<br>BLANK FOR PARALLEL SERV |
| 50      | (32) | CHARACTER | 64  | *           | TO ADD UP THE KEY                                  |
| 114     | (72) | CHARACTER | 149 | AWSDATA     | DATA PART OF AWS RECORD                            |
| 114     | (72) | SIGNED    | 2   | AWSFACT     | FACTOR TO MULTIPLY AMOUNT                          |
| 116     | (74) | UNSIGNED  | 1   | AWSAMT (96) | OF RESOURCES                                       |
| 212     | (D4) | CHARACTER | 51  | *           | TO ADD UP TO STD RECSIZE                           |

## Cross reference

| Name   | Hex Offset | Hex Value | Level |
|--------|------------|-----------|-------|
| AWSAMT | 74         |           | 3     |



| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| AWSAREA  | 0          |           | 1     |
| AWSDATA  | 72         |           | 2     |
| AWSDATE  | 2A         |           | 3     |
| AWSFACT  | 72         |           | 3     |
| AWSKEY   | 0          |           | 2     |
| AWSSTRNG | 30         |           | 3     |
| AWSSTYPE | 28         |           | 3     |
| AWSTYPE  | 0          |           | 3     |
| AWSWSID  | 24         |           | 3     |

## BK\_CKPT - Backup checkpoint

Name: DCLBKCKP

Function:

This segment declares the layout of the backup checkpoint data set, which is used by the backup controller.

| Offsets |     |           |     |             |                         |
|---------|-----|-----------|-----|-------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description             |
| 0       | (0) | STRUCTURE | 208 | BK_CKPT     |                         |
| 0       | (0) | CHARACTER | 10  | BK_CKPT_KEY | key always='0000000000' |

Last written JT record info

| Offsets |     |           |     |                     |                    |
|---------|-----|-----------|-----|---------------------|--------------------|
| Dec     | Hex | Type      | Len | Name (Dim)          | Description        |
| 10      | (A) | CHARACTER | 2   | BK_CKPT_LASTJTYP    | TRL typ            |
| 12      | (C) | UNSIGNED  | 2   | BK_CKPT_LASTJTIDOLD | TRL orig JT number |

| Offsets |      |           |     |                      |                      |
|---------|------|-----------|-----|----------------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)           | Description          |
| 14      | (E)  | UNSIGNED  | 2   | BK_CKPT_LASTJTID     | TRL JT number        |
| 16      | (10) | UNSIGNED  | 4   | BK_CKPT_LASTJTSEQNO  | TRL sequence number  |
| 20      | (14) | CHARACTER | 4   | BK_CKPT_LASTJTDAT    | TRL date 00yydddf    |
| 24      | (18) | UNSIGNED  | 4   | BK_CKPT_LASTJTTIM    | TRL time hhmmsssth   |
| 28      | (1C) | CHARACTER | 4   | BK_CKPT_LASTJTDATOLD | TRL date 00yydddf    |
| 32      | (20) | UNSIGNED  | 4   | BK_CKPT_LASTJTTIMOLD | TRL time hhmmsssth   |
| 36      | (24) | UNSIGNED  | 2   | BK_CKPT_LASTJTCPRUN  | TRL CP run number    |
| 38      | (26) | UNSIGNED  | 2   | BK_CKPT_LASTJTLTRUN  | TRL CP LT run number |
| 40      | (28) | CHARACTER | 8   | BK_CKPT_LASTJTCPTOD  | TRL CP tod           |
| 48      | (30) | CHARACTER | 8   | BK_CKPT_LASTJTLTTOD  | TRL LT tod           |
| 56      | (38) | CHARACTER | 2   | BK_CKPT_FILLER       | free                 |

## Last applied JT record info

| Offsets |      |           |     |                      |                      |
|---------|------|-----------|-----|----------------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)           | Description          |
| 58      | (3A) | CHARACTER | 2   | BK_CKPT_APPLJTYP     | TRL typ              |
| 60      | (3C) | UNSIGNED  | 2   | BK_CKPT_APPLJTIDOLD  | TRL orig JT number   |
| 62      | (3E) | UNSIGNED  | 2   | BK_CKPT_APPLJTID     | TRL JT number        |
| 64      | (40) | UNSIGNED  | 4   | BK_CKPT_APPLJTSEQNO  | TRL sequence number  |
| 68      | (44) | CHARACTER | 4   | BK_CKPT_APPLJTDAT    | TRL date 00yydddf    |
| 72      | (48) | UNSIGNED  | 4   | BK_CKPT_APPLJTTIM    | TRL time hhmmsssth   |
| 76      | (4C) | CHARACTER | 4   | BK_CKPT_APPLJTDATOLD | TRL date 00yydddf    |
| 80      | (50) | UNSIGNED  | 4   | BK_CKPT_APPLJTTIMOLD | TRL time hhmmsssth   |
| 84      | (54) | UNSIGNED  | 2   | BK_CKPT_APPLJTCPRUN  | TRL CP run number    |
| 86      | (56) | UNSIGNED  | 2   | BK_CKPT_APPLJTLTRUN  | TRL CP LT run number |

| Offsets |      |           |     |                     |             |
|---------|------|-----------|-----|---------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)          | Description |
| 88      | (58) | CHARACTER | 8   | BK_CKPT_APPLJTCPTOD | TRL CP tod  |
| 96      | (60) | CHARACTER | 8   | BK_CKPT_APPLJTLTTOD | TRL LT tod  |

## Current JT info

| Offsets |      |           |     |                           |                        |
|---------|------|-----------|-----|---------------------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)                | Description            |
| 104     | (68) | UNSIGNED  | 4   | BK_CKPT_JTPRIM_FIRSTSEQNO | current JT first SEQNO |
| 108     | (6C) | UNSIGNED  | 4   | BK_CKPT_JTPRIM_LASTSEQNO  | current JT last SEQNO  |
| 112     | (70) | CHARACTER | 8   | BK_CKPT_JTPRIM_TRL60      | curr JT trl60 tod      |

## DB changed info

| Offsets |      |           |     |             |             |
|---------|------|-----------|-----|-------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description |
| 120     | (78) | CHARACTER | 8   | BK_AD       |             |
| 120     | (78) | CHARACTER | 4   | BK_ADTRL    |             |
| 124     | (7C) | UNSIGNED  | 4   | BK_ADTRLSEQ |             |
| 128     | (80) | CHARACTER | 8   | BK_JV       |             |
| 128     | (80) | CHARACTER | 4   | BK_JVTRL    |             |
| 132     | (84) | UNSIGNED  | 4   | BK_JVTRLSEQ |             |
| 136     | (88) | CHARACTER | 8   | BK_RD       |             |
| 136     | (88) | CHARACTER | 4   | BK_RDTRL    |             |
| 140     | (8C) | UNSIGNED  | 4   | BK_RDTRLSEQ |             |

| Offsets |      |           |     |               |             |
|---------|------|-----------|-----|---------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description |
| 144     | (90) | CHARACTER | 8   | BK_OI         |             |
| 144     | (90) | CHARACTER | 4   | BK_OITRL      |             |
| 148     | (94) | UNSIGNED  | 4   | BK_OITRLSEQ   |             |
| 152     | (98) | CHARACTER | 8   | BK_WS         |             |
| 152     | (98) | CHARACTER | 4   | BK_WSTRL      |             |
| 156     | (9C) | UNSIGNED  | 4   | BK_WSTRLSEQ   |             |
| 160     | (A0) | CHARACTER | 8   | BK_WSCL       |             |
| 160     | (A0) | CHARACTER | 4   | BK_WSCLTRL    |             |
| 164     | (A4) | UNSIGNED  | 4   | BK_WSCLTRLSEQ |             |
| 168     | (A8) | CHARACTER | 8   | BK_CAL        |             |
| 168     | (A8) | CHARACTER | 4   | BK_CALTRL     |             |
| 172     | (AC) | UNSIGNED  | 4   | BK_CALTRLSEQ  |             |
| 176     | (B0) | CHARACTER | 8   | BK_PER        |             |
| 176     | (B0) | CHARACTER | 4   | BK_PERTRL     |             |
| 180     | (B4) | UNSIGNED  | 4   | BK_PERTRLSEQ  |             |
| 184     | (B8) | CHARACTER | 8   | BK_RUN        |             |
| 184     | (B8) | CHARACTER | 4   | BK_RUNTRL     |             |
| 188     | (BC) | UNSIGNED  | 4   | BK_RUNTRLSEQ  |             |
| 192     | (C0) | CHARACTER | 8   | BK_SI         |             |
| 192     | (C0) | CHARACTER | 4   | BK_SITRL      |             |
| 196     | (C4) | UNSIGNED  | 4   | BK_SITRLSEQ   |             |
| 200     | (C8) | CHARACTER | 8   | BK_LTP        |             |
| 200     | (C8) | CHARACTER | 4   | BK_LTPTRL     |             |
| 204     | (CC) | UNSIGNED  | 4   | BK_LTPTRLSEQ  |             |

## Cross reference

| Name  | Hex Offset | Hex Value | Level |
|-------|------------|-----------|-------|
| BK_AD | 78         |           | 2     |

| Name                      | Hex Offset | Hex Value | Level |
|---------------------------|------------|-----------|-------|
| BK_ADTRL                  | 78         |           | 3     |
| BK_ADTRLSEQ               | 7C         |           | 3     |
| BK_CAL                    | A8         |           | 2     |
| BK_CALTRL                 | A8         |           | 3     |
| BK_CALTRLSEQ              | AC         |           | 3     |
| BK_CKPT                   | 0          |           | 1     |
| BK_CKPT_APPLJTCPRUN       | 54         |           | 2     |
| BK_CKPT_APPLJTCPTOD       | 58         |           | 2     |
| BK_CKPT_APPLJTDAT         | 44         |           | 2     |
| BK_CKPT_APPLJTDATOLD      | 4C         |           | 2     |
| BK_CKPT_APPLJTID          | 3E         |           | 2     |
| BK_CKPT_APPLJTIDOLD       | 3C         |           | 2     |
| BK_CKPT_APPLJTLTRUN       | 56         |           | 2     |
| BK_CKPT_APPLJTLTOD        | 60         |           | 2     |
| BK_CKPT_APPLJTSEQNO       | 40         |           | 2     |
| BK_CKPT_APPLJTTIM         | 48         |           | 2     |
| BK_CKPT_APPLJTTIMOLD      | 50         |           | 2     |
| BK_CKPT_APPLJTYP          | 3A         |           | 2     |
| BK_CKPT_FILLER            | 38         |           | 2     |
| BK_CKPT_JTPRIM_FIRSTSEQNO | 68         |           | 2     |
| BK_CKPT_JTPRIM_LASTSEQNO  | 6C         |           | 2     |
| BK_CKPT_JTPRIM_TRL60      | 70         |           | 2     |
| BK_CKPT_KEY               | 0          |           | 2     |
| BK_CKPT_LASTJTCPRUN       | 24         |           | 2     |
| BK_CKPT_LASTJTCPTOD       | 28         |           | 2     |
| BK_CKPT_LASTJTDAT         | 14         |           | 2     |
| BK_CKPT_LASTJTDATOLD      | 1C         |           | 2     |
| BK_CKPT_LASTJTID          | E          |           | 2     |

| Name                 | Hex Offset | Hex Value | Level |
|----------------------|------------|-----------|-------|
| BK_CKPT_LASTJTIDOLD  | C          |           | 2     |
| BK_CKPT_LASTJTLTRUN  | 26         |           | 2     |
| BK_CKPT_LASTJTLTOD   | 30         |           | 2     |
| BK_CKPT_LASTJTSEQNO  | 10         |           | 2     |
| BK_CKPT_LASTJTTIM    | 18         |           | 2     |
| BK_CKPT_LASTJTTIMOLD | 20         |           | 2     |
| BK_CKPT_LASTJTTP     | A          |           | 2     |
| BK_JV                | 80         |           | 2     |
| BK_JVTRL             | 80         |           | 3     |
| BK_JVTRLSEQ          | 84         |           | 3     |
| BK_LTP               | C8         |           | 2     |
| BK_LTPTRL            | C8         |           | 3     |
| BK_LTPTRLSEQ         | CC         |           | 3     |
| BK_OI                | 90         |           | 2     |
| BK_OITRL             | 90         |           | 3     |
| BK_OITRLSEQ          | 94         |           | 3     |
| BK_PER               | B0         |           | 2     |
| BK_PERTRL            | B0         |           | 3     |
| BK_PERTRLSEQ         | B4         |           | 3     |
| BK_RD                | 88         |           | 2     |
| BK_RDTRL             | 88         |           | 3     |
| BK_RDTRLSEQ          | 8C         |           | 3     |
| BK_RUN               | B8         |           | 2     |
| BK_RUNTRL            | B8         |           | 3     |
| BK_RUNTRLSEQ         | BC         |           | 3     |
| BK_SI                | C0         |           | 2     |
| BK_SITRL             | C0         |           | 3     |
| BK_SITRLSEQ          | C4         |           | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| BK_WS         | 98         |           | 2     |
| BK_WSCL       | A0         |           | 2     |
| BK_WSCLTRL    | A0         |           | 3     |
| BK_WSCLTRLSEQ | A4         |           | 3     |
| BK_WSTRL      | 98         |           | 3     |
| BK_WSTRLSEQ   | 9C         |           | 3     |

## BKINFO - Backup controller main control block

Name: DCLBKINF

Function:

This segment declares the layout of the main storage control block, which is used by the backup controller.

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 328 | BKINFO     |             |

Currently  
in use LTP info

| Offsets |     |           |     |                   |                |
|---------|-----|-----------|-----|-------------------|----------------|
| Dec     | Hex | Type      | Len | Name (Dim)        | Description    |
| 0       | (0) | CHARACTER | 16  | BKI_PLANLT        |                |
| 0       | (0) | CHARACTER | 8   | BKI_PLANLT_TOD    | LTP TOD        |
| 8       | (8) | UNSIGNED  | 4   | BKI_PLANLT_RUN    | LTP RUN number |
| 12      | (C) | CHARACTER | 1   | BKI_PLANLT_EXISTS | YN             |
| 13      | (D) | CHARACTER | 3   | *                 |                |

Currently  
in use CP info

| Offsets |      |           |     |                    |                        |
|---------|------|-----------|-----|--------------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description            |
| 16      | (10) | CHARACTER | 21  | BKI_PLANCP         |                        |
| 16      | (10) | CHARACTER | 8   | BKI_PLANCP_TOD     | our CP TOD             |
| 24      | (18) | UNSIGNED  | 4   | BKI_PLANCP_RUN     | our CP RUN             |
| 28      | (1C) | CHARACTER | 8   | BKI_PLANCP_CURRENT | EQQCP1DS or EQQCP2DS   |
| 36      | (24) | CHARACTER | 1   | BKI_PLANCP_EXISTS  | YN                     |
| 37      | (25) | CHARACTER | 1   | BKI_OFFLINE_FLAG   | Y at least one OFFLINE |

Last received JT event info CP and LTP time of day run

| Offsets |      |           |     |                 |                       |
|---------|------|-----------|-----|-----------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description           |
| 38      | (26) | UNSIGNED  | 2   | BKI_LASTJTCPRUN |                       |
| 40      | (28) | CHARACTER | 8   | BKI_LASTJTCPTOD |                       |
| 48      | (30) | UNSIGNED  | 2   | BKI_LASTJTLTRUN |                       |
| 50      | (32) | CHARACTER | 8   | BKI_LASTJTLTTOD |                       |
| 58      | (3A) | CHARACTER | 1   | BKI_POSTPONE    | Y postpone BKTAKEOVER |
| 59      | (3B) | UNSIGNED  | 1   | BKI_RETRYSYNC   | retry counter         |

original JT date and time

| Offsets |      |           |     |                    |                              |
|---------|------|-----------|-----|--------------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description                  |
| 60      | (3C) | CHARACTER | 4   | BKI_LASTJTOLDEVDAT | event date, format 00yydddf  |
| 64      | (40) | UNSIGNED  | 4   | BKI_LASTJTOLDEVTIM | event time, format hhmmsssth |
| 68      | (44) | UNSIGNED  | 2   | BKI_LASTJTOLDID    | event time, JT id            |

PLAN SYNCHRONIZATION info



| Offsets |      |           |     |                |             |
|---------|------|-----------|-----|----------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description |
| 70      | (46) | CHARACTER | 14  | BKI_PLANRESYNC |             |

PLAN RESYNC IN PROGRESS blank not in progress S in progress

| Offsets |      |           |     |                     |             |
|---------|------|-----------|-----|---------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)          | Description |
| 70      | (46) | CHARACTER | 1   | BKI_PLANRESYNCPINPR |             |

PLANS RESTORE STATUS N restore not needed W restore  
needed waiting for transfer complete S restore needed  
restore jcl is started C restore needed restore jcl is  
completed E restore needed restore jcl ended in error

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 71      | (47) | CHARACTER | 4   | BKI_PLANS_STATUS |             |
| 71      | (47) | CHARACTER | 1   | BKI_NCP          |             |
| 72      | (48) | CHARACTER | 1   | BKI_CP1          |             |
| 73      | (49) | CHARACTER | 1   | BKI_CP2          |             |
| 74      | (4A) | CHARACTER | 1   | BKI_LTP          |             |

PLANS RESYNC TYPE NCP DP batch synchronization LTP  
LTP batch synchronization SYNC plan alignment  
synchronization

| Offsets |      |           |     |                    |             |
|---------|------|-----------|-----|--------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description |
| 75      | (4B) | CHARACTER | 4   | BKI_PLANRESYNCTYPE |             |
| 79      | (4F) | CHARACTER | 1   | BKI_TRL60RCV       |             |
| 80      | (50) | CHARACTER | 4   | *                  |             |

## JT SYNCHRONIZATION info

JT RESYNC IN PROGRESS blank not in progress S in progress

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 84      | (54) | CHARACTER | 1   | BKI_JTRESYNCPINPR |             |
| 85      | (55) | CHARACTER | 3   | *                 |             |

JT RESYNC startend seqno Start seqno End seqno

| Offsets |      |          |     |                       |             |
|---------|------|----------|-----|-----------------------|-------------|
| Dec     | Hex  | Type     | Len | Name (Dim)            | Description |
| 88      | (58) | UNSIGNED | 4   | BKI_JTRESYNCPSTRSEQNO |             |
| 92      | (5C) | UNSIGNED | 4   | BKI_JTRESYNCPENDSEQNO |             |

BACKUP CONTROLLER STOP flag

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 96      | (60) | CHARACTER | 1   | BKI_STOP   | STOP YN     |

COMMON SYNCHRONIZATION info

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 97      | (61) | CHARACTER | 1   | BKI_BS2RECEIVED   | YN          |
| 98      | (62) | CHARACTER | 1   | BKI_TRL63STARTRCV | YN          |
| 99      | (63) | CHARACTER | 1   | BKI_TRL63ENDRCV   | YN          |
| 100     | (64) | CHARACTER | 1   | BKI_BS1PHASE      | I init      |

BACKUP CONTROLLER JT resend failed

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 101     | (65) | CHARACTER | 1   | BKI_JTRESENFFAIL | YN          |

JT suspended info

| Offsets |      |           |     |                 |               |
|---------|------|-----------|-----|-----------------|---------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description   |
| 102     | (66) | CHARACTER | 2   | BKI_STARTSUSPJT | first susp JT |
| 104     | (68) | CHARACTER | 8   | *               | free          |

CP backup info

| Offsets |      |           |     |              |                     |
|---------|------|-----------|-----|--------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description         |
| 112     | (70) | CHARACTER | 4   | BKI_ORIGBKPD | Primary backup date |
| 116     | (74) | SIGNED    | 4   | BKI_ORIGBKPT | Primary backup time |

BKQPR info

| Offsets |      |           |     |               |             |
|---------|------|-----------|-----|---------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description |
| 120     | (78) | CHARACTER | 16  | BKI_F_TRL65   |             |
| 120     | (78) | CHARACTER | 2   | BKI_F_TYP65   |             |
| 122     | (7A) | UNSIGNED  | 2   | BKI_F_BDW65   |             |
| 124     | (7C) | CHARACTER | 4   | BKI_F_EVDAT65 |             |
| 128     | (80) | UNSIGNED  | 4   | BKI_F_EVTIM65 |             |
| 132     | (84) | UNSIGNED  | 4   | BKI_F_SEQNO65 |             |
| 136     | (88) | CHARACTER | 16  | BKI_L_TRL65   |             |
| 136     | (88) | CHARACTER | 2   | BKI_L_TYP65   |             |
| 138     | (8A) | UNSIGNED  | 2   | BKI_L_BDW65   |             |
| 140     | (8C) | CHARACTER | 4   | BKI_L_EVDAT65 |             |

| Offsets |      |          |     |               |             |
|---------|------|----------|-----|---------------|-------------|
| Dec     | Hex  | Type     | Len | Name (Dim)    | Description |
| 144     | (90) | UNSIGNED | 4   | BKI_L_EVTIM65 |             |
| 148     | (94) | UNSIGNED | 4   | BKI_L_SEQNO65 |             |

DB SYNC info blank not in progress S in progress

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 152     | (98) | CHARACTER | 8   | BKI_DBRESYNC      |             |
| 152     | (98) | CHARACTER | 1   | BKI_DBRESYNCPINPR | blank or S  |

RESTORE STATUS N restore not needed S restore  
needed restore jcl is started C restore needed restore  
jcl is completed E restore needed restore jcl ended in error

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 153     | (99) | CHARACTER | 1   | BKI_AD     |             |
| 154     | (9A) | CHARACTER | 1   | BKI_WS     |             |
| 155     | (9B) | CHARACTER | 1   | BKI_OI     |             |
| 156     | (9C) | CHARACTER | 1   | BKI_RD     |             |
| 157     | (9D) | CHARACTER | 1   | BKI_SI     |             |
| 158     | (9E) | CHARACTER | 1   | BKI_JS1    |             |
| 159     | (9F) | CHARACTER | 1   | BKI_JS2    |             |

TRANSFER JOB INFO

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 160     | (A0) | CHARACTER | 64  | BKI_TRANSFER     |             |
| 160     | (A0) | CHARACTER | 8   | BKI_NCPBSE_JOB   |             |
| 168     | (A8) | CHARACTER | 8   | BKI_NCPBSE_JOBID |             |

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 176     | (B0) | CHARACTER | 8   | BKI_CP1BSE_JOB   |             |
| 184     | (B8) | CHARACTER | 8   | BKI_CP1BSE_JOBID |             |
| 192     | (C0) | CHARACTER | 8   | BKI_CP2BSE_JOB   |             |
| 200     | (C8) | CHARACTER | 8   | BKI_CP2BSE_JOBID |             |
| 208     | (D0) | CHARACTER | 8   | BKI_LTPBSE_JOB   |             |
| 216     | (D8) | CHARACTER | 8   | BKI_LTPBSE_JOBID |             |

## RESTORE JOB INFO

| Offsets |       |           |     |                  |             |
|---------|-------|-----------|-----|------------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim)       | Description |
| 224     | (E0)  | CHARACTER | 64  | BKI_RESTORE      |             |
| 224     | (E0)  | CHARACTER | 8   | BKI_NCPBRE_JOB   |             |
| 232     | (E8)  | CHARACTER | 8   | BKI_NCPBRE_JOBID |             |
| 240     | (F0)  | CHARACTER | 8   | BKI_CP1BRE_JOB   |             |
| 248     | (F8)  | CHARACTER | 8   | BKI_CP1BRE_JOBID |             |
| 256     | (100) | CHARACTER | 8   | BKI_CP2BRE_JOB   |             |
| 264     | (108) | CHARACTER | 8   | BKI_CP2BRE_JOBID |             |
| 272     | (110) | CHARACTER | 8   | BKI_LTPBRE_JOB   |             |
| 280     | (118) | CHARACTER | 8   | BKI_LTPBRE_JOBID |             |

## previous CP and LTP info

| Offsets |       |           |     |                    |             |
|---------|-------|-----------|-----|--------------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim)         | Description |
| 288     | (120) | CHARACTER | 4   | BKI_CUR_CPBKPDORIG |             |
| 292     | (124) | UNSIGNED  | 4   | BKI_CUR_CPBKPTORIG |             |
| 296     | (128) | CHARACTER | 4   | BKI_PRE_CPBKPDORIG |             |
| 300     | (12C) | UNSIGNED  | 4   | BKI_PRE_CPBKPTORIG |             |
| 304     | (130) | CHARACTER | 8   | BKI_PRE_CP_TOD     |             |

| Offsets |       |           |     |                    |             |
|---------|-------|-----------|-----|--------------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim)         | Description |
| 312     | (138) | CHARACTER | 8   | BKI_PRE_LT_TOD     |             |
| 320     | (140) | UNSIGNED  | 4   | BKI_CURCP_TRLSEQNO |             |
| 324     | (144) | CHARACTER | 4   | *                  |             |

## Cross reference

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| BKI_AD             | 99         |           | 3     |
| BKI_BS1PHASE       | 64         |           | 2     |
| BKI_BS2RECEIVED    | 61         |           | 2     |
| BKI_CP1            | 48         |           | 4     |
| BKI_CP1BRE_JOB     | F0         |           | 3     |
| BKI_CP1BRE_JOBID   | F8         |           | 3     |
| BKI_CP1BSE_JOB     | B0         |           | 3     |
| BKI_CP1BSE_JOBID   | B8         |           | 3     |
| BKI_CP2            | 49         |           | 4     |
| BKI_CP2BRE_JOB     | 100        |           | 3     |
| BKI_CP2BRE_JOBID   | 108        |           | 3     |
| BKI_CP2BSE_JOB     | C0         |           | 3     |
| BKI_CP2BSE_JOBID   | C8         |           | 3     |
| BKI_CUR_CPBKPDORIG | 120        |           | 2     |
| BKI_CUR_CPBKPTORIG | 124        |           | 2     |
| BKI_CURCP_TRLSEQNO | 140        |           | 2     |
| BKI_DBRESYNC       | 98         |           | 2     |
| BKI_DBRESYNCPINPR  | 98         |           | 3     |
| BKI_F_BDW65        | 7A         |           | 3     |
| BKI_F_EVDAT65      | 7C         |           | 3     |
| BKI_F_EVTIM65      | 80         |           | 3     |
| BKI_F_SEQNO65      | 84         |           | 3     |

| Name                  | Hex Offset | Hex Value | Level |
|-----------------------|------------|-----------|-------|
| BKI_F_TRL65           | 78         |           | 2     |
| BKI_F_TYP65           | 78         |           | 3     |
| BKI_JS1               | 9E         |           | 3     |
| BKI_JS2               | 9F         |           | 3     |
| BKI_JTRESENFALL       | 65         |           | 2     |
| BKI_JTRESYNCENDSEQNO  | 5C         |           | 2     |
| BKI_JTRESYNCPINPR     | 54         |           | 2     |
| BKI_JTRESYNCPSTRSEQNO | 58         |           | 2     |
| BKI_L_BDW65           | 8A         |           | 3     |
| BKI_L_EVDAT65         | 8C         |           | 3     |
| BKI_L_EVTIM65         | 90         |           | 3     |
| BKI_L_SEQNO65         | 94         |           | 3     |
| BKI_L_TRL65           | 88         |           | 2     |
| BKI_L_TYP65           | 88         |           | 3     |
| BKI_LASTJTCPRUN       | 26         |           | 2     |
| BKI_LASTJTCPTOD       | 28         |           | 2     |
| BKI_LASTJTLTRUN       | 30         |           | 2     |
| BKI_LASTJTLLTOD       | 32         |           | 2     |
| BKI_LASTJTOLDEV DAT   | 3C         |           | 2     |
| BKI_LASTJTOLDEV TIM   | 40         |           | 2     |
| BKI_LASTJTOLDID       | 44         |           | 2     |
| BKI_LTP               | 4A         |           | 4     |
| BKI_LTPBRE_JOB        | 110        |           | 3     |
| BKI_LTPBRE_JOBID      | 118        |           | 3     |
| BKI_LTPBSE_JOB        | D0         |           | 3     |
| BKI_LTPBSE_JOBID      | D8         |           | 3     |
| BKI_NCP               | 47         |           | 4     |
| BKI_NCPBRE_JOB        | E0         |           | 3     |

| Name                | Hex Offset | Hex Value | Level |
|---------------------|------------|-----------|-------|
| BKI_NCPBRE_JOBID    | E8         |           | 3     |
| BKI_NCPBSE_JOB      | A0         |           | 3     |
| BKI_NCPBSE_JOBID    | A8         |           | 3     |
| BKI_OFFLINE_FLAG    | 25         |           | 2     |
| BKI_OI              | 9B         |           | 3     |
| BKI_ORIGBKPD        | 70         |           | 2     |
| BKI_ORIGBKPT        | 74         |           | 2     |
| BKI_PLANCP          | 10         |           | 2     |
| BKI_PLANCP_CURRENT  | 1C         |           | 3     |
| BKI_PLANCP_EXISTS   | 24         |           | 3     |
| BKI_PLANCP_RUN      | 18         |           | 3     |
| BKI_PLANCP_TOD      | 10         |           | 3     |
| BKI_PLANLT          | 0          |           | 2     |
| BKI_PLANLT_EXISTS   | C          |           | 3     |
| BKI_PLANLT_RUN      | 8          |           | 3     |
| BKI_PLANLT_TOD      | 0          |           | 3     |
| BKI_PLANRESYNC      | 46         |           | 2     |
| BKI_PLANRESYNCPINPR | 46         |           | 3     |
| BKI_PLANRESYNCTYPE  | 4B         |           | 3     |
| BKI_PLANS_STATUS    | 47         |           | 3     |
| BKI_POSTPONE        | 3A         |           | 2     |
| BKI_PRE_CP_TOD      | 130        |           | 2     |
| BKI_PRE_CPBKPDORIG  | 128        |           | 2     |
| BKI_PRE_CPBKPTORIG  | 12C        |           | 2     |
| BKI_PRE_LT_TOD      | 138        |           | 2     |
| BKI_RD              | 9C         |           | 3     |
| BKI_RESTORE         | E0         |           | 2     |
| BKI_RETRYSYNC       | 3B         |           | 2     |



| Name              | Hex Offset | Hex Value | Level |
|-------------------|------------|-----------|-------|
| BKI_SI            | 9D         |           | 3     |
| BKI_STARTSUSPJT   | 66         |           | 2     |
| BKI_STOP          | 60         |           | 2     |
| BKI_TRANSFER      | A0         |           | 2     |
| BKI_TRL60RCV      | 4F         |           | 3     |
| BKI_TRL63ENDRCV   | 63         |           | 2     |
| BKI_TRL63STARTRCV | 62         |           | 2     |
| BKI_WS            | 9A         |           | 3     |
| BKINFO            | 0          |           | 1     |

## BKPTOPT - Backup controller options

Name: DCLBKCKP

Function:

This segment declares the layout of the BKPOPTS options used by the backup controller.

| Offsets |      |           |     |              |                              |
|---------|------|-----------|-----|--------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                  |
| 0       | (0)  | STRUCTURE | 532 | BKPTOPT      | BKPT options                 |
| 0       | (0)  | CHARACTER | 4   | BKPTEYE      | eye catcher ('BKPT')         |
| 4       | (4)  | CHARACTER | 9   | BKPTTCPJN    | TCPIP started task name      |
| 13      | (D)  | CHARACTER | 3   | *            | reserved                     |
| 16      | (10) | CHARACTER | 53  | BKPTLOCHOST  | hostname or IP addr of local |
| 69      | (45) | CHARACTER | 3   | *            | reserved                     |
| 72      | (48) | SIGNED    | 4   | BKPTLOCPORT  | local port number            |
| 76      | (4C) | CHARACTER | 53  | BKPTPEERHOST | hostname or IP addr of peer  |
| 129     | (81) | CHARACTER | 3   | *            | reserved                     |
| 132     | (84) | SIGNED    | 4   | BKPTPEERPORT | peer port number             |

| Offsets |       |           |     |                |                                                  |
|---------|-------|-----------|-----|----------------|--------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)     | Description                                      |
| 136     | (88)  | SIGNED    | 4   | BKPTTIMEOUT    | connection timeout                               |
| 140     | (8C)  | BITSTRING | 1   | BKPTFLAGS      | --- flags                                        |
|         |       | 1... ..   |     | BKPTSSLFORCE   | SSL level=force (default is level=off)           |
|         |       | .1... ..  |     | BKPTSSLSTRING  | SSL authmode=string (default is authmode=caonly) |
|         |       | ..1. .... |     | BKPTFIPS       | FIPS enabled (default is FIPS off)               |
|         |       | ...1 1111 |     | *              | reserved                                         |
| 141     | (8D)  | CHARACTER | 121 | BKPTSSLKEYDB   | SSL keystore database                            |
| 262     | (106) | CHARACTER | 121 | BKPTSSLKEYPW   | SSL key password file                            |
| 383     | (17F) | CHARACTER | 65  | BKPTSSLAUTHSTR | SSL authorization string                         |
| 448     | (1C0) | CHARACTER | 9   | BKPTSSLLABEL   | SSL certificate label                            |
| 457     | (1C9) | CHARACTER | 3   | *              | free                                             |
| 460     | (1CC) | CHARACTER | 8   | BKPTNCPDUMP    | NCP dump procedure                               |
| 468     | (1D4) | CHARACTER | 8   | BKPTCP1DUMP    | CP1 dump procedure                               |
| 476     | (1DC) | CHARACTER | 8   | BKPTCP2DUMP    | CP2 dump procedure                               |
| 484     | (1E4) | CHARACTER | 8   | BKPTLTPDUMP    | LTP dump procedure                               |
| 492     | (1EC) | CHARACTER | 8   | BKPTNCPREST    | NCP restore procedure                            |
| 500     | (1F4) | CHARACTER | 8   | BKPTCP1REST    | CP1 restore procedure                            |
| 508     | (1FC) | CHARACTER | 8   | BKPTCP2REST    | CP2 restore procedure                            |
| 516     | (204) | CHARACTER | 8   | BKPTLTREST     | LTP restore procedure                            |
| 524     | (20C) | SIGNED    | 4   | BKPTPEERHPORT  | peer HTTP server port num                        |
| 528     | (210) | SIGNED    | 4   | BKPTPEERHSPORT | peer HTTPS serv port num                         |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| BKPTCP1DUMP | 1D4        |           | 2     |
| BKPTCP1REST | 1F4        |           | 2     |
| BKPTCP2DUMP | 1DC        |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| BKPTCP2REST    | 1FC        |           | 2     |
| BKPT EYE       | 0          |           | 2     |
| BKPTFIPS       | 8C         | 20        | 3     |
| BKPTFLAGS      | 8C         |           | 2     |
| BKPTLOCHOST    | 10         |           | 2     |
| BKPTLOCPORT    | 48         |           | 2     |
| BKPTLTDPDUMP   | 1E4        |           | 2     |
| BKPTLTPREST    | 204        |           | 2     |
| BKPTNCPDUMP    | 1CC        |           | 2     |
| BKPTNCPREST    | 1EC        |           | 2     |
| BKPTOPT        | 0          |           | 1     |
| BKPTPEERHOST   | 4C         |           | 2     |
| BKPTPEERHPORT  | 20C        |           | 2     |
| BKPTPEERHSPORT | 210        |           | 2     |
| BKPTPEERPORT   | 84         |           | 2     |
| BKPTSSLAUTHSTR | 17F        |           | 2     |
| BKPTSSLFORCE   | 8C         | 80        | 3     |
| BKPTSSLKEYDB   | 8D         |           | 2     |
| BKPTSSLKEYPW   | 106        |           | 2     |
| BKPTSSLLABEL   | 1C0        |           | 2     |
| BKPTSSLSTRING  | 8C         | 40        | 3     |
| BKPTTCPJN      | 4          |           | 2     |
| BKPTTIMEOUT    | 88         |           | 2     |

## CAL - Calendar definition record

### Example

Name : DCLCAL

Function:

This segment declares a calendar definition, physically located in the workstation description database (EQQWSDS)

| Offsets |      |           |     |            |                                                   |
|---------|------|-----------|-----|------------|---------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                       |
| 0       | (0)  | STRUCTURE | 96  | CALENDAR   | CALENDAR HEADER                                   |
| 0       | (0)  | CHARACTER | 2   | CALTYPE    | RECORD TYPE = '06'                                |
| 2       | (2)  | CHARACTER | 8   | CALKEY     | KEY OF CALENDAR                                   |
| 2       | (2)  | SIGNED    | 2   | CALNUM     | RECORD NUMBER                                     |
| 4       | (4)  | CHARACTER | 4   | CALEYE     | EYE CATCHER (ALWAYS='CAL')                        |
| 8       | (8)  | SIGNED    | 2   | *          | RESERVED                                          |
| 10      | (A)  | CHARACTER | 16  | CALIDENT   | IDENTITY OF THE CALENDAR                          |
| 26      | (1A) | CHARACTER | 30  | CALDESC    | DESCRIPTION OF CALENDAR                           |
| 56      | (38) | CHARACTER | 8   | CALUPDU    | TSO USER IDENTITY OF LAST UPDATING USER           |
| 64      | (40) | CHARACTER | 6   | CALUPDD    | DATE (YYMMDD FORMAT) AND                          |
| 70      | (46) | CHARACTER | 4   | CALUPDT    | TIME (HHMM FORMAT) WHEN CALENDAR WAS LAST UPDATED |
| 74      | (4A) | SIGNED    | 2   | CAL#SPEC   | NUMBER OF SPECIFIC DATES AND WEEK DAYS            |
| 76      | (4C) | CHARACTER | 4   | CALSHIFT   | SHIFT TIME                                        |
| 80      | (50) | UNSIGNED  | 1   | CALVER     | RECORD LAYOUT VERSION                             |
| 81      | (51) | CHARACTER | 7   | *          | FREE                                              |
| 88      | (58) | CHARACTER | 8   | CALLUTS    | LAST UPDATE TIMESTAMP                             |
| 96      | (60) | CHARACTER |     | CALVARS    | VARIABLE SECTION                                  |

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 96      | (60) | STRUCTURE | *   | CALDATES   | EACH CALENDAR WEEK DAY |

| Offsets |      |           |     |             |                                                      |
|---------|------|-----------|-----|-------------|------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                          |
| 96      | (60) | CHARACTER | 52  | CALDAT (*)  | OR SPECIFIC DATE HOLDS THE FOLLOWING FIELDS          |
| 96      | (60) | CHARACTER | 6   | CALDATE     | SPECIFIC DATE YYMMDD OR                              |
| 96      | (60) | CHARACTER | 1   | CALWEEKDAY  | WEEK DAY 1=MONDAY<br>7=SUNDAY                        |
| 97      | (61) | CHARACTER | 1   | CALWEEKDAYM | BLANK IF WEEKDAY                                     |
| 102     | (66) | CHARACTER | 30  | CALCOMM     | COMMENT FOR THE WEEK DAY<br>OR SPECIFIC DATE         |
| 132     | (84) | CHARACTER | 1   | CALSTAT     | WEEK DAY OR SPECIFIC DATE<br>STATUS (W=WORK, F=FREE) |
| 133     | (85) | CHARACTER | 15  | *           | SPARE                                                |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CAL#SPEC | 4A         |           | 2     |
| CALCOMM  | 66         |           | 3     |
| CALDAT   | 60         |           | 2     |
| CALDATE  | 60         |           | 3     |
| CALDATES | 60         |           | 1     |
| CALDESC  | 1A         |           | 2     |
| CALENDAR | 0          |           | 1     |
| CALEYE   | 4          |           | 3     |
| CALIDENT | A          |           | 2     |
| CALKEY   | 2          |           | 2     |
| calluts  | 58         |           | 2     |
| CALNUM   | 2          |           | 3     |
| CALSHIFT | 4C         |           | 2     |
| CALSTAT  | 84         |           | 3     |
| CALTYPE  | 0          |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CALUPDD     | 40         |           | 2     |
| CALUPDT     | 46         |           | 2     |
| CALUPDU     | 38         |           | 2     |
| CALVARs     | 60         |           | 2     |
| CALVER      | 50         |           | 2     |
| CALWEEKDAY  | 60         |           | 4     |
| CALWEEKDAYM | 61         |           | 4     |

## CAPP - Completed/deleted application report record in DP

### Example

Name : DCLCAPP

Function:

Describes the layout of CAPP records representing report data on occurrences which have been completed/deleted in current plan. Occurrences that belong to one or more 24-hour periods that are automatically reported are sorted before occurrences which belong to the current 24-hours period.

The records have the standard recsize and keysize of DPIN records.

| Offsets |      |           |     |            |                                                    |
|---------|------|-----------|-----|------------|----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                        |
| 0       | (0)  | STRUCTURE | 264 | CAPAREA    | CAP RECORD                                         |
| 0       | (0)  | CHARACTER | 115 | CAPKEY     | KEY                                                |
| 0       | (0)  | SIGNED    | 2   | CAPTYPE    | TYPE IS ALWAYS 5                                   |
| 2       | (2)  | SIGNED    | 2   | CAPSTYPE   | SUBTYPE 1 = OLD 24-HOURS SUBTYPE 2 = CURRENT 24-H. |
| 4       | (4)  | CHARACTER | 34  | *          | ADJUST ADID                                        |
| 38      | (26) | CHARACTER | 26  | CAPOCC     | OCCURRENCE IDENTIFICATION                          |
| 38      | (26) | CHARACTER | 16  | CAPADID    | APPLICATION IDENTIFICATION                         |
| 54      | (36) | CHARACTER | 10  | CAPOPIA    | PLANNED OCC INPUT ARRIVAL                          |
| 54      | (36) | CHARACTER | 6   | CAPOPIAD   | DAY (YYMMDD)                                       |
| 54      | (36) | CHARACTER | 4   | CAPOPIAY   | (YYMM )                                            |
| 58      | (3A) | CHARACTER | 2   | CAPOPIAE   | ( DD)                                              |

| Offsets |      |           |     |            |                                                               |
|---------|------|-----------|-----|------------|---------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                   |
| 60      | (3C) | CHARACTER | 4   | CAPOPIAT   | TIME (HHMM)                                                   |
| 60      | (3C) | CHARACTER | 2   | CAPOPIAH   | TIME (HH )                                                    |
| 62      | (3E) | CHARACTER | 2   | CAPOPIAM   | TIME ( MM)                                                    |
| 64      | (40) | CHARACTER | 10  | CAPORC     | REAL OCCURRENCE COMPLETION (BLANK FOR DELETED)                |
| 64      | (40) | CHARACTER | 6   | CAPORCDT   | DAY (YYMMDD)  BLANK                                           |
| 64      | (40) | CHARACTER | 4   | CAPORCY    | (YYMM )                                                       |
| 68      | (44) | CHARACTER | 2   | CAPORCD    | ( DD)                                                         |
| 70      | (46) | CHARACTER | 4   | CAPORCT    | TIME (HHMM)  BLANK                                            |
| 70      | (46) | CHARACTER | 2   | CAPORCH    | TIME (HH )                                                    |
| 72      | (48) | CHARACTER | 2   | CAPORCM    | TIME ( MM)                                                    |
| 74      | (4A) | CHARACTER | 7   | CAPWSID    | WSID OF OPERATION                                             |
| 74      | (4A) | CHARACTER | 3   | CAPWSIDN   | OPERATION NUMBER                                              |
| 77      | (4D) | CHARACTER | 4   | CAPWSIDS   | WORKSTATION NAME                                              |
| 81      | (51) | CHARACTER | 16  | CAPOWID    | OWNER OF OPERATION                                            |
| 97      | (61) | CHARACTER | 8   | CAPJOBIN   | JOB NAME FOR OPERATION                                        |
| 105     | (69) | CHARACTER | 1   | CAPADDED   | HOW ADDED TO PLAN                                             |
| 106     | (6A) | CHARACTER | 9   | *          | TO FILL UP THE KEY                                            |
| 115     | (73) | CHARACTER | 149 | CAPDATA    | DATA PART OF CAP RECORD                                       |
| 115     | (73) | CHARACTER | 24  | CAPOTXT    | APPLICATION TEXT                                              |
| 139     | (8B) | CHARACTER | 1   | CAPOPRI    | PRIORITY                                                      |
| 140     | (8C) | CHARACTER | 10  | CAPOAIA    | ACTUAL OCC INPUT ARRIVAL (BLANK FOR OCC DELETED BEFORE START) |
| 140     | (8C) | CHARACTER | 6   | CAPOAIAD   | DAY (YYMMDD)  BLANK                                           |
| 140     | (8C) | CHARACTER | 4   | CAPOAIAY   | (YYMM )                                                       |
| 144     | (90) | CHARACTER | 2   | CAPOAIAE   | ( DD)                                                         |
| 146     | (92) | CHARACTER | 4   | CAPOAIAT   | TIME (HHMM)  BLANK                                            |
| 146     | (92) | CHARACTER | 2   | CAPOAIAH   | TIME (HH )                                                    |

| Offsets |      |           |     |            |                                                                   |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                       |
| 148     | (94) | CHARACTER | 2   | CAPOAIAM   | TIME ( MM)                                                        |
| 150     | (96) | CHARACTER | 4   | CAPAILDL   | OCCURENCE INPUT DELAY (9959 FOR ALL ABOVE 100 H)                  |
| 150     | (96) | CHARACTER | 2   | CAPAILDLH  | TIME (HH )  BLANK                                                 |
| 152     | (98) | CHARACTER | 2   | CAPAILDLM  | ( MM)                                                             |
| 154     | (9A) | CHARACTER | 4   | CAPAODL    | OCCURENCE OUTPUT DELAY (9959 FOR ALL ABOVE 100 H)                 |
| 154     | (9A) | CHARACTER | 2   | CAPAODLH   | TIME (HH )  BLANK                                                 |
| 156     | (9C) | CHARACTER | 2   | CAPAODLM   | ( MM)                                                             |
| 158     | (9E) | CHARACTER | 10  | CAPOPC     | PLANNED OCC. COMPLETION                                           |
| 158     | (9E) | CHARACTER | 6   | CAPOPCDT   | DAY (YYMMDD)                                                      |
| 158     | (9E) | CHARACTER | 4   | CAPOPCY    | (YYMM )                                                           |
| 162     | (A2) | CHARACTER | 2   | CAPOPCD    | ( DD)                                                             |
| 164     | (A4) | CHARACTER | 4   | CAPOPCT    | TIME (HHMM)                                                       |
| 164     | (A4) | CHARACTER | 2   | CAPOPCH    | TIME (HH )                                                        |
| 166     | (A6) | CHARACTER | 2   | CAPOPCM    | TIME ( MM)                                                        |
| 168     | (A8) | CHARACTER | 4   | CAPOERR    | OCCURENCE ERROR CODE                                              |
| 172     | (AC) | CHARACTER | 24  | CAPOPTXT   | OPERATION TEXT                                                    |
| 196     | (C4) | CHARACTER | 10  | CAPPPIA    | SPEC OPER INPUT ARRIVAL                                           |
| 196     | (C4) | CHARACTER | 6   | CAPPPIAD   | DAY (YYMMDD)                                                      |
| 196     | (C4) | CHARACTER | 4   | CAPPPIAY   | (YYMM )                                                           |
| 200     | (C8) | CHARACTER | 2   | CAPPPIAE   | ( DD)                                                             |
| 202     | (CA) | CHARACTER | 4   | CAPPPIAT   | TIME (HHMM)                                                       |
| 202     | (CA) | CHARACTER | 2   | CAPPPIAH   | TIME (HH )                                                        |
| 204     | (CC) | CHARACTER | 2   | CAPPPIAM   | TIME ( MM)                                                        |
| 206     | (CE) | CHARACTER | 10  | CAPPAIA    | ACTUAL OPER INPUT ARRIVAL (BLANK FOR DELETED OPER BEFORE STARTED) |
| 206     | (CE) | CHARACTER | 6   | CAPPAIAD   | DAY (YYMMDD)  BLANK                                               |



| Offsets |      |           |     |            |                                                    |
|---------|------|-----------|-----|------------|----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                        |
| 206     | (CE) | CHARACTER | 4   | CAPPAIAY   | (YYMM )                                            |
| 210     | (D2) | CHARACTER | 2   | CAPPAIAE   | ( DD)                                              |
| 212     | (D4) | CHARACTER | 4   | CAPPAIAT   | TIME (HHMM)  BLANK                                 |
| 212     | (D4) | CHARACTER | 2   | CAPPAIAH   | TIME (HH )                                         |
| 214     | (D6) | CHARACTER | 2   | CAPPAIAM   | TIME ( MM)                                         |
| 216     | (D8) | CHARACTER | 4   | CAPOIDL    | OPERATION INPUT DELAY (9959 FOR ALL ABOVE 100 H)   |
| 216     | (D8) | CHARACTER | 2   | CAPOIDLH   | TIME (HH )  BLANK                                  |
| 218     | (DA) | CHARACTER | 2   | CAPOIDLM   | ( MM)                                              |
| 220     | (DC) | CHARACTER | 10  | CAPPPC     | SPECIFIC OPER COMPLETION                           |
| 220     | (DC) | CHARACTER | 6   | CAPPPCDT   | DAY (YYMMDD)                                       |
| 220     | (DC) | CHARACTER | 4   | CAPPPCY    | (YYMM )                                            |
| 224     | (E0) | CHARACTER | 2   | CAPPPCD    | ( DD)                                              |
| 226     | (E2) | CHARACTER | 4   | CAPPPCT    | TIME (HHMM)                                        |
| 226     | (E2) | CHARACTER | 2   | CAPPPCH    | TIME (HH )                                         |
| 228     | (E4) | CHARACTER | 2   | CAPPPCM    | TIME ( MM)                                         |
| 230     | (E6) | CHARACTER | 10  | CAPPRC     | REAL OPERATION COMPLETION (BLANK FOR DELETED OPER) |
| 230     | (E6) | CHARACTER | 6   | CAPPRCT    | DAY (YYMMDD)  BLANK                                |
| 230     | (E6) | CHARACTER | 4   | CAPPRCY    | (YYMM )                                            |
| 234     | (EA) | CHARACTER | 2   | CAPPRCD    | ( DD)                                              |
| 236     | (EC) | CHARACTER | 4   | CAPPACT    | TIME (HHMM)  BLANK                                 |
| 236     | (EC) | CHARACTER | 2   | CAPPRCH    | TIME (HH )                                         |
| 238     | (EE) | CHARACTER | 2   | CAPPRCM    | TIME ( MM)                                         |
| 240     | (F0) | CHARACTER | 4   | CAPOODL    | OPERATION OUTPUT DELAY (9959 FOR ALL ABOVE 100 H)  |
| 240     | (F0) | CHARACTER | 2   | CAPOODLH   | TIME (HH )  BLANK                                  |
| 242     | (F2) | CHARACTER | 2   | CAPOODLM   | ( MM)                                              |

| Offsets |      |           |     |            |                      |
|---------|------|-----------|-----|------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description          |
| 244     | (F4) | CHARACTER | 4   | CAPOPERR   | OPERATION ERROR CODE |
| 248     | (F8) | CHARACTER | 16  | CAPOPUDATA | OPERATION USERDATA   |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CAPADDED | 69         |           | 3     |
| CAPADID  | 26         |           | 4     |
| CAPAIDL  | 96         |           | 3     |
| CAPAIDLH | 96         |           | 4     |
| CAPAIDLM | 98         |           | 4     |
| CAPAODL  | 9A         |           | 3     |
| CAPAODLH | 9A         |           | 4     |
| CAPAODLM | 9C         |           | 4     |
| CAPAREA  | 0          |           | 1     |
| CAPDATA  | 73         |           | 2     |
| CAPJOBN  | 61         |           | 3     |
| CAPKEY   | 0          |           | 2     |
| CAPOAIA  | 8C         |           | 3     |
| CAPOAIAD | 8C         |           | 4     |
| CAPOAIAE | 90         |           | 5     |
| CAPOAIAH | 92         |           | 5     |
| CAPOAIAM | 94         |           | 5     |
| CAPOAIAT | 92         |           | 4     |
| CAPOAIAY | 8C         |           | 5     |
| CAPOCC   | 26         |           | 3     |
| CAPOERR  | A8         |           | 3     |
| CAPOIDL  | D8         |           | 3     |
| CAPOIDLH | D8         |           | 4     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CAPOIDL    | DA         |           | 4     |
| CAPOODL    | F0         |           | 3     |
| CAPOODLH   | F0         |           | 4     |
| CAPOODLM   | F2         |           | 4     |
| CAPOPC     | 9E         |           | 3     |
| CAPOPCD    | A2         |           | 5     |
| CAPOPCDT   | 9E         |           | 4     |
| CAPOPCH    | A4         |           | 5     |
| CAPOPCM    | A6         |           | 5     |
| CAPOPCT    | A4         |           | 4     |
| CAPOPCY    | 9E         |           | 5     |
| CAPOPERR   | F4         |           | 3     |
| CAPOPIA    | 36         |           | 4     |
| CAPOPIAD   | 36         |           | 5     |
| CAPOPIAE   | 3A         |           | 6     |
| CAPOPIAH   | 3C         |           | 6     |
| CAPOPIAM   | 3E         |           | 6     |
| CAPOPIAT   | 3C         |           | 5     |
| CAPOPIAY   | 36         |           | 6     |
| CAPOPRI    | 8B         |           | 3     |
| CAPOPTXT   | AC         |           | 3     |
| CAPOPUDATA | F8         |           | 3     |
| CAPORC     | 40         |           | 3     |
| CAPORCD    | 44         |           | 5     |
| CAPORCDT   | 40         |           | 4     |
| CAPORCH    | 46         |           | 5     |
| CAPORCM    | 48         |           | 5     |
| CAPORCT    | 46         |           | 4     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CAPORCY  | 40         |           | 5     |
| CAPOTXT  | 73         |           | 3     |
| CAPOWID  | 51         |           | 3     |
| CAPPACT  | EC         |           | 4     |
| CAPPAIA  | CE         |           | 3     |
| CAPPAIAD | CE         |           | 4     |
| CAPPAIAE | D2         |           | 5     |
| CAPPAIAH | D4         |           | 5     |
| CAPPAIAM | D6         |           | 5     |
| CAPPAIAT | D4         |           | 4     |
| CAPPAIAY | CE         |           | 5     |
| CAPPPC   | DC         |           | 3     |
| CAPPPCD  | E0         |           | 5     |
| CAPPPCDT | DC         |           | 4     |
| CAPPPCH  | E2         |           | 5     |
| CAPPPCM  | E4         |           | 5     |
| CAPPPCT  | E2         |           | 4     |
| CAPPPCY  | DC         |           | 5     |
| CAPPPIA  | C4         |           | 3     |
| CAPPPIAD | C4         |           | 4     |
| CAPPPIAE | C8         |           | 5     |
| CAPPPIAH | CA         |           | 5     |
| CAPPPIAM | CC         |           | 5     |
| CAPPPIAT | CA         |           | 4     |
| CAPPPIAY | C4         |           | 5     |
| CAPPRC   | E6         |           | 3     |
| CAPPRCD  | EA         |           | 5     |
| CAPPRCH  | EC         |           | 5     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CAPPRCM  | EE         |           | 5     |
| CAPPRCT  | E6         |           | 4     |
| CAPPRCY  | E6         |           | 5     |
| CAPSTYPE | 2          |           | 3     |
| CAPTYPE  | 0          |           | 3     |
| CAPWSID  | 4A         |           | 3     |
| CAPWSIDN | 4A         |           | 4     |
| CAPWSIDS | 4D         |           | 4     |

## CASE - Auto recovery case code list

### Example

Name : DCLCASE

Function:

A case code is set up to represent one or more error codes or return codes. A function may use this by allowing a case code to be given instead of one or more error or return codes, the case code will then represent all the codes in its list. The list is not recursive, a code in the list is not regarded as another case code. The lists are placed adjacent in storage, the start address of list  $i+1$  is the end address of list  $i$ .

| Offsets |     |           |     |              |                                 |
|---------|-----|-----------|-----|--------------|---------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                     |
| 0       | (0) | STRUCTURE | *   | CASELIST     | CASE CODE LIST                  |
| 0       | (0) | CHARACTER | 4   | CASECODE     | CODE REPRESENTING THIS LIST     |
| 4       | (4) | ADDRESS   | 4   | CASENEXT     | ADDRESS TO NEXT LIST            |
| 8       | (8) | CHARACTER | 4   | CASEMEMB (*) | MEMBERS, THE CODES COLLECTIVELY |

## CPLREC01 - CURRENT PLAN HDR RECORD

### Example

Name : DCLCPR01

Function:

This segment declares the current plan header record, physically located in EQQCPxDS and EQQNCPDS.

| Offsets |      |           |     |            |                                        |
|---------|------|-----------|-----|------------|----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                            |
| 0       | (0)  | STRUCTURE | 190 | CPLREC01   | CURRENT PLAN HDR RECORD                |
| 0       | (0)  | CHARACTER | 12  | CPLKEY01   |                                        |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 01                      |
| 2       | (2)  | CHARACTER | 10  | CPLKF01    | SHOULD CONTAIN BLANKS                  |
| 12      | (C)  | CHARACTER | 178 | CPLBDY01   | HDR RECORD BODY                        |
| 12      | (C)  | CHARACTER | 4   | CPLEYE01   | EYECATCHER                             |
| 16      | (10) | UNSIGNED  | 1   | CPLVERS01  | VERSION NUMBER                         |
| 17      | (11) | CHARACTER | 1   | *          | FREE                                   |
| 18      | (12) | CHARACTER | 10  | CPLCR      | CURRENT PLAN CREATION                  |
| 18      | (12) | CHARACTER | 6   | CPLCRDAT   | DATE                                   |
| 24      | (18) | CHARACTER | 4   | CPLCRTIM   | TIME                                   |
| 28      | (1C) | CHARACTER | 10  | CPLEND     | LAST PLAN NEXT PERIOD END              |
| 28      | (1C) | CHARACTER | 6   | CPLENDAT   | DATE                                   |
| 34      | (22) | CHARACTER | 4   | CPLENTIM   | TIME                                   |
| 38      | (26) | CHARACTER | 10  | CPLBU      | LAST BACKUP                            |
| 38      | (26) | CHARACTER | 6   | CPLBUDAT   | DATE                                   |
| 44      | (2C) | CHARACTER | 4   | CPLBUTIM   | TIME                                   |
| 48      | (30) | CHARACTER | 10  | CPLLP      | TAIL END                               |
| 48      | (30) | CHARACTER | 6   | CPLLPDAT   | DATE                                   |
| 54      | (36) | CHARACTER | 4   | CPLLP TIM  | TIME                                   |
| 58      | (3A) | CHARACTER | 10  | CPLREPS    | REPORT PERIOD START                    |
| 58      | (3A) | CHARACTER | 6   | CPLREPSD   | DATE                                   |
| 64      | (40) | CHARACTER | 4   | CPLREPST   | TIME                                   |
| 68      | (44) | SIGNED    | 4   | CPLREPL    | NUMBER OF REPLANS SINCE LAST PLAN NEXT |
| 72      | (48) | SIGNED    | 4   | CPLOPS     | TOTAL NUMBER OF OPERATIONS RECORDS     |

| Offsets |      |           |     |                 |                                             |
|---------|------|-----------|-----|-----------------|---------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description                                 |
| 76      | (4C) | SIGNED    | 4   | CPLMAXOP        | THE TOTAL NUMBER OF POSSIBLE CONCURRENT OPS |
| 80      | (50) | SIGNED    | 4   | CPLMAXOC        | CURRENT MAX OCCURRENCE RECORD NUMBER        |
| 84      | (54) | SIGNED    | 4   | CPLMAXNW        | CURRENT MAX NETWORK NUMBER                  |
| 88      | (58) | SIGNED    | 4   | CPLMAX06        | CURRENT MAX TYPE 06 RECORD                  |
| 92      | (5C) | SIGNED    | 4   | CPLMAX07        | CURRENT MAX TYPE 07 RECORD                  |
| 96      | (60) | SIGNED    | 4   | CPLMIN08        | CURRENT MIN TYPE 08 RECORD                  |
| 100     | (64) | CHARACTER | 32  | CPL01COUNTS     | MAIN COUNTERS                               |
| 100     | (64) | SIGNED    | 4   | CPL01C_PIFADD   | ...num PIF occ ADDs                         |
| 104     | (68) | SIGNED    | 4   | CPL01C_MCPADD   | ...num MCP occ ADDs                         |
| 108     | (6C) | SIGNED    | 4   | CPL01C_ETTADD   | ...num ETT occ ADDs                         |
| 112     | (70) | SIGNED    | 4   | CPL01C_ARCADD   | ...num AR occ ADDs                          |
| 116     | (74) | SIGNED    | 4   | CPL01C_COPOP    | ...num copied ops                           |
| 120     | (78) | SIGNED    | 4   | CPL01C_COPOCC   | ...num copied OCCs                          |
| 124     | (7C) | SIGNED    | 4   | CPL01C_CRITJOBS | nbr of critical jobs                        |
| 128     | (80) | SIGNED    | 4   | CPL01C_CRITPRED | total num of crit preds                     |
| 132     | (84) | CHARACTER | 8   | CPL01TOKEN_FULL | operation full token                        |
| 132     | (84) | CHARACTER | 4   | CPL01TOKEN_PRE  | prefix                                      |
| 136     | (88) | UNSIGNED  | 4   | CPL01TOKEN      | opctoken                                    |
| 140     | (8C) | CHARACTER | 4   | CPL01BUGMTD     | last backup date, gmt                       |
| 144     | (90) | UNSIGNED  | 4   | CPL01BUGMTT     | last backup time, gmt                       |
| 148     | (94) | CHARACTER | 10  | CPLLEVEL        | level of current plan ds                    |
| 148     | (94) | CHARACTER | 2   | CPLLEV_VER      | verion of cp ds                             |
| 150     | (96) | CHARACTER | 8   | CPLLEV_FMID     | fmid of cp ds                               |
| 158     | (9E) | CHARACTER | 1   | CPLDEADL        | I = ignore deadline                         |
| 159     | (9F) | CHARACTER | 1   | CPLTDEPCHK      | Y = new calc of PST                         |
| 160     | (A0) | SIGNED    | 4   | CPLMAXXNW       | current max x net nbr                       |

| Offsets |      |           |     |                 |                                   |
|---------|------|-----------|-----|-----------------|-----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description                       |
| 164     | (A4) | CHARACTER | 1   | CPLFNShift      | SHIFT FNONC used (YN)             |
| 165     | (A5) | CHARACTER | 3   | *               |                                   |
| 168     | (A8) | CHARACTER | 4   | CPL01BUGMTDORIG | last backup date, gmt             |
| 172     | (AC) | UNSIGNED  | 4   | CPL01BUGMTTORIG | last backup time, gmt             |
| 176     | (B0) | CHARACTER | 8   | CPLRUN_TOD      |                                   |
| 184     | (B8) | SIGNED    | 4   | CPLTRLSEQNO     | last written seqno at backup time |
| 188     | (BC) | UNSIGNED  | 2   | CPLRUN_NUMBER   | NETWORK NUMBER                    |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPLOPS      | 48         |           | 3     |
| CPLREPL     | 44         |           | 3     |
| CPLBDY01    | C          |           | 2     |
| CPLBU       | 26         |           | 3     |
| CPLBUDAT    | 26         |           | 4     |
| CPLBUTIM    | 2C         |           | 4     |
| CPLCR       | 12         |           | 3     |
| CPLCRDAT    | 12         |           | 4     |
| CPLCRTIM    | 18         |           | 4     |
| CPLDEADL    | 9E         |           | 3     |
| CPLEND      | 1C         |           | 3     |
| CPLENDAT    | 1C         |           | 4     |
| CPLENTIM    | 22         |           | 4     |
| CPLEYE01    | C          |           | 3     |
| CPLFNShift  | A4         |           | 3     |
| CPLKEY01    | 0          |           | 2     |
| CPLKF01     | 2          |           | 3     |
| CPLLEV_FMID | 96         |           | 4     |



| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| CPLLEV_VER      | 94         |           | 4     |
| CPLLEVEL        | 94         |           | 3     |
| CPLLP           | 30         |           | 3     |
| CPLLPDAT        | 30         |           | 4     |
| CPLLPTIM        | 36         |           | 4     |
| CPLMAXNW        | 54         |           | 3     |
| CPLMAXOC        | 50         |           | 3     |
| CPLMAXOP        | 4C         |           | 3     |
| CPLMAXXNW       | A0         |           | 3     |
| CPLMAX06        | 58         |           | 3     |
| CPLMAX07        | 5C         |           | 3     |
| CPLMIN08        | 60         |           | 3     |
| CPLREC01        | 0          |           | 1     |
| CPLREPS         | 3A         |           | 3     |
| CPLREPSD        | 3A         |           | 4     |
| CPLREPST        | 40         |           | 4     |
| CPLRUN_NUMBER   | BC         |           | 3     |
| CPLRUN_TOD      | B0         |           | 3     |
| CPLTDEPCHK      | 9F         |           | 3     |
| CPLTRLSEQNO     | B8         |           | 3     |
| CPLVERS01       | 10         |           | 3     |
| CPL01BUGMTD     | 8C         |           | 3     |
| CPL01BUGMTDORIG | A8         |           | 3     |
| CPL01BUGMTT     | 90         |           | 3     |
| CPL01BUGMTTORIG | AC         |           | 3     |
| CPL01C_ARCADD   | 70         |           | 4     |
| CPL01C_COPOCC   | 78         |           | 4     |
| CPL01C_COPOP    | 74         |           | 4     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| CPL01C_CRITJOBS | 7C         |           | 4     |
| CPL01C_CRITPRED | 80         |           | 4     |
| CPL01C_ETTADD   | 6C         |           | 4     |
| CPL01C_MCPADD   | 68         |           | 4     |
| CPL01C_PIFADD   | 64         |           | 4     |
| CPL01COUNTS     | 64         |           | 3     |
| CPL01TOKEN      | 88         |           | 4     |
| CPL01TOKEN_FULL | 84         |           | 3     |
| CPL01TOKEN_PRE  | 84         |           | 4     |

## CPLREC02 - Current plan workstation record

### Example

Name : DCLCPR02

Function:

This segment declares a current plan workstation record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC02 record is structured as follows:

- 1 CPLREC02
- 2 common data
- 2 open time interval ( )
- 2 access method ( )

## Common data segment

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | *   | CPLREC02   | CURRENT PLAN WS RECORD |
| 0       | (0) | CHARACTER | 236 | CPLCOM02   |                        |
| 0       | (0) | CHARACTER | 19  | CPLKEY02   |                        |
| 0       | (0) | CHARACTER | 2   | *          | TYPE IS ALWAYS 02      |
| 2       | (2) | CHARACTER | 4   | CPLWSN02   | WORKSTATION NAME       |
| 6       | (6) | CHARACTER | 13  | CPLKF02    | SHOULD CONTAIN BLANKS  |

| Offsets |      |           |     |            |                                             |
|---------|------|-----------|-----|------------|---------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                 |
| 19      | (13) | CHARACTER | 193 | CPLBDY02   | WS RECORD BODY                              |
| 19      | (13) | CHARACTER | 4   | CPLYE02    | EYECATCHER                                  |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS02  | VERSION NUMBER                              |
| 24      | (18) | CHARACTER | 32  | CPLDESCR02 | WS DESCRIPTION                              |
| 56      | (38) | CHARACTER | 12  | CPLSUMC    | SUM OF COMPLETED OPS                        |
| 56      | (38) | SIGNED    | 4   | CPLSUMC#   | NUMBER                                      |
| 60      | (3C) | SIGNED    | 4   | CPLSUMCE   | ESTIMATED DURATION                          |
| 64      | (40) | SIGNED    | 4   | CPLSUMCR   | REAL DURATION                               |
| 68      | (44) | CHARACTER | 12  | CPLSUMI    | SUM OF INTERRUPTED OPS                      |
| 68      | (44) | SIGNED    | 4   | CPLSUMI#   | NUMBER                                      |
| 72      | (48) | SIGNED    | 4   | CPLSUMIE   | ESTIMATED DURATION                          |
| 76      | (4C) | SIGNED    | 4   | CPLSUMIR   | REAL DURATION                               |
| 80      | (50) | CHARACTER | 8   | CPLSUMS    | SUM OF STARTED OPS                          |
| 80      | (50) | SIGNED    | 4   | CPLSUMS#   | NUMBER                                      |
| 84      | (54) | SIGNED    | 4   | CPLSUMSE   | ESTIMATED DURATION                          |
| 88      | (58) | CHARACTER | 8   | CPLSUMR    | SUM OF 'READY' OPS (R,A,*)                  |
| 88      | (58) | SIGNED    | 4   | CPLSUMR#   | NUMBER                                      |
| 92      | (5C) | SIGNED    | 4   | CPLSUMRE   | ESTIMATED DURATION                          |
| 96      | (60) | CHARACTER | 8   | CPLSUMW    | SUM OF WAITING OPS                          |
| 96      | (60) | SIGNED    | 4   | CPLSUMW#   | NUMBER                                      |
| 100     | (64) | SIGNED    | 4   | CPLSUMWE   | ESTIMATED DURATION                          |
| 104     | (68) | SIGNED    | 4   | CPLSUMA    | SUM OF ARRIVING OPS                         |
| 108     | (6C) | SIGNED    | 4   | CPLSUMNRR  | SUM OF '*' READY                            |
| 112     | (70) | SIGNED    | 4   | CPLSUMU    | SUM OF UNDECIDED                            |
| 116     | (74) | SIGNED    | 4   | CPLSUME    | SUM OF ERROR OPERS                          |
| 120     | (78) | SIGNED    | 4   | CPLSUML    | SUM OF LATE OPERS                           |
| 124     | (7C) | CHARACTER | 8   | CPLCREVT   | LAST SYNCHRONIZATION EVENT<br>CREATION TIME |

| Offsets |      |           |     |              |                                                              |
|---------|------|-----------|-----|--------------|--------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                  |
| 124     | (7C) | SIGNED    | 4   | CPLDATE      | DATE FORMAT (00YYDDDF)                                       |
| 128     | (80) | SIGNED    | 4   | CPLTIME      | TIME FORMAT (SECS*100)                                       |
| 132     | (84) | SIGNED    | 4   | *(3)         | RESERVED FOR DURATION                                        |
| 144     | (90) | CHARACTER | 1   | CPLWSTYP     | 1=GENERAL<br>2=COMPUTER<br>3=PRINT                           |
| 145     | (91) | CHARACTER | 1   | CPLWSREP     | 1=AUTO<br>2=MANUAL<br>3=MANUAL & COMPLETION ONLY<br>4=NONREP |
| 146     | (92) | CHARACTER | 2   | CPLWSR1N     | RESOURCE NAME                                                |
| 148     | (94) | SIGNED    | 2   | CPLWSR1IU#   | NUMBER IN USE (NOTE, PS'S ..IN USE = NO. STARTED OP'S        |
| 150     | (96) | CHARACTER | 2   | CPLWSR1FLG   | RESOURCE INDICATORS                                          |
|         |      | 1... ..   |     | CPLWSR1C     | RESOURCE USED AT CONTROL                                     |
|         |      | .1... ..  |     | *            | FREE                                                         |
|         |      | .1... ..  |     | CPLWSWAIT    | WAIT WORKSTATION                                             |
|         |      | ..1. .... |     | CPLWSVIRT    | VIRTUAL WORKSTATION                                          |
|         |      | ...1 .... |     | CPLWSVIRT    | VIRTUAL WORKSTATION                                          |
|         |      | .... 1... |     | CPLWSZCAGENT | Z/OS CENTRIC DISTRIBUTED WORKSTATION                         |
|         |      | .... .1.. |     | CPLWSZNOINFO | Z-CENTRIC NO INFO AVAILABLE                                  |
|         |      | .... ..1. |     | CPLWSDYN     | DYNAMIC WORKSTATION                                          |
| 150     | (96) | BITSTRING | 1   | *            | FREE                                                         |
| 152     | (98) | CHARACTER | 2   | CPLWSR2N     | RESOURCE NAME                                                |
| 154     | (9A) | UNSIGNED  | 2   | CPLWSR2IU#   | NUMBER IN USE                                                |
| 156     | (9C) | CHARACTER | 2   | CPLWSR2FLG   | RESOURCE INDICATORS                                          |
|         |      | 1... ..   |     | CPLWSR2C     | RESOURCE USED AT CONTROL                                     |
|         |      | .1... ..  |     | CPLWSSTAT    | WSSTAT GENERATED STATUS                                      |

| Offsets |      |            |     |              |                             |
|---------|------|------------|-----|--------------|-----------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)   | Description                 |
|         |      | ...1. .... |     | CPLUX009     | UX009 GENERATED STATUS      |
| 156     | (9C) | BITSTRING  | 1   | *            | RESERVED                    |
| 158     | (9E) | CHARACTER  | 1   | CPLRLTYP     | READY LIST TYPE             |
| 159     | (9F) | CHARACTER  | 1   | CPLFLG02     | FLAG BITS                   |
|         |      | 1... ....  |     | CPLPREP      | JOB SETUP ABILITY           |
|         |      | .1.. ....  |     | CPLVLNU      | IVL NOT USED AT ALL         |
|         |      | ..1. ....  |     | CPLVLNP      | NO PARALLEL SERVERS         |
|         |      | ...1 ....  |     | CPLSTC       | STARTED TASK SUPPORT        |
|         |      | .... 1...  |     | CPLWTO       | WTO DEADLINE SUPPORT        |
|         |      | .... .1..  |     | CPLOFF_PEND  | WS IS PENDING OFFLINE       |
|         |      | .... ..1.  |     | CPLRTR_PEND  | T EVENT PENDING             |
|         |      | .... ...1  |     | CPLAWS_VARY  | VARIED AWS SET              |
| 160     | (A0) | CHARACTER  | 8   | CPLPREEV     | PREVIOUS EVENT              |
| 160     | (A0) | CHARACTER  | 4   | CPLPREDT     | DATE IN TIME MACRO FORM     |
| 164     | (A4) | CHARACTER  | 4   | CPLPRETM     | TIME IN TIME MACRO FORM     |
| 168     | (A8) | CHARACTER  | 8   | CPLSUDS      | DDNAME OF SUBM./REL DS      |
| 176     | (B0) | SIGNED     | 2   | CPLVL#I      | NUMBER OF OPEN INTERVALS    |
| 178     | (B2) | SIGNED     | 2   | CPLMAX15     | MAX NO OF EVENTS IN 15 MIN. |
| 180     | (B4) | CHARACTER  | 1   | CPLWSSTA     | USED BY DIALOG              |
| 181     | (B5) | CHARACTER  | 1   | CPLCWS_STAT  | WORKSTATION STATUS          |
| 182     | (B6) | SIGNED     | 2   | CPLTRT02     | TRANSPORT TIME DEFAULT      |
| 184     | (B8) | CHARACTER  | 8   | CPLCOFF02    | OFFLINE TIME STAMP          |
| 184     | (B8) | CHARACTER  | 4   | CPLCOFF_DATE | OFFLINE DATE                |
| 188     | (BC) | CHARACTER  | 4   | CPLCOFF_TIME | OFFLINE TIME                |
| 192     | (C0) | CHARACTER  | 4   | CPLCAWS02    | CURRENT ALTERNATE WS        |
| 196     | (C4) | UNSIGNED   | 2   | CPLSEQ#02    | CURRENT SUBMIT SEQUENCE     |
| 198     | (C6) | UNSIGNED   | 1   | CPLRSEQ#02   | CURRENT REQUEST SEQUENC     |

| Offsets |      |           |     |             |                                                                        |
|---------|------|-----------|-----|-------------|------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                            |
| 199     | (C7) | UNSIGNED  | 1   | CPLSUMCES   | DURATION FIELDS ABOVE                                                  |
| 200     | (C8) | UNSIGNED  | 1   | CPLSUMCRS   | HOLDS NUMBER OF MINUTES                                                |
| 201     | (C9) | UNSIGNED  | 1   | CPLSUMIES   | OF ESTIMATED OR REAL                                                   |
| 202     | (CA) | UNSIGNED  | 1   | CPLSUMIRS   | DURATION FOR ALL OPERATIONS                                            |
| 203     | (CB) | UNSIGNED  | 1   | CPLSUMSES   | ON THIS WORKSTATION PER                                                |
| 204     | (CC) | UNSIGNED  | 1   | CPLSUMRES   | STATUS (C,I,S,R AND W)                                                 |
| 205     | (CD) | UNSIGNED  | 1   | CPLSUMWES   | HERE ARE THE SECONDS                                                   |
| 206     | (CE) | CHARACTER | 1   | CPLWSTWS    | FTA WORKSTATION                                                        |
| 207     | (CF) | CHARACTER | 1   | CPLLNK02    | FTA WS LINKED STATUS                                                   |
| 208     | (D0) | CHARACTER | 1   | CPLFLGTWS   | FTA SPECIFIC FLAGS                                                     |
|         |      |           |     | CPLLNKVA    | LINKED STATUS MANUALLY VARIED                                          |
|         |      |           |     | CPLSTAVA    | STATUS MANUALLY VARIED                                                 |
|         |      |           |     | CPLLNKDW    | LINKED DOWN TO CPU                                                     |
|         |      |           |     | CPLWRTST    | WRITER STATUS FOR CPU                                                  |
|         |      |           |     | CPLCMDLNK   | COMMAND LINK FOR FTW:<br>ON=LINK<br>OFF=UNLINK                         |
|         |      |           |     | CPLCMDSTA   | COMMAND STATUS FOR FTW:<br>ON=START<br>OFF=STOP                        |
|         |      |           |     | CPLFULLNK   | FTA WS FULLY LINKED STATUS:<br>ON=FULLY LINKED<br>OFF=NOT FULLY LINKED |
| 209     | (D1) | CHARACTER | 1   | CPLAUTO     | SYSTEM AUTOMATION Y/N                                                  |
| 210     | (D2) | SIGNED    | 2   | CPLACCM#    | 0='NO ACC MET DATA'<br>1='ACC MET DATA PRESENT                         |
| 212     | (D4) | SIGNED    | 2   | CPLLIMIT    | CPU LIMIT VALUE                                                        |
| 214     | (D6) | CHARACTER | 22  | CPLFULLYACT | Y/N                                                                    |
| 215     | (D7) | CHARACTER | 1   | CPLRENGT    | REMOTE ENGINE TYPE                                                     |

| Offsets |      |           |     |            |                                                   |
|---------|------|-----------|-----|------------|---------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                       |
| 216     | (D8) | SIGNED    | 4   | CPLVMAX15  | MAXNO EVENT IN 15 MIN                             |
| 220     | (DC) | SIGNED    | 4   | CPLSUMD    | SUM OF DELETED OPERATIONS                         |
| 224     | (E0) | SIGNED    | 4   | CPLSUMH    | SUM OF MANUALLY HELD OPERATIONS                   |
| 228     | (E4) | SIGNED    | 2   | CPLEOPT#   | 0='NO E2E OPTIONS DATA'<br>1='E2E OPTIONS PRESENT |
| 230     | (E6) | CHARACTER | 6   | *          | FREE                                              |
| 236     | (EC) | CHARACTER | *   | CPLWSVAR   | VARIABLE LENGTH SECTION                           |

## Open time interval segment

### Example

The value of CPLIVL#I in the common data segment describes the number of open time interval segments that follow the common data.

| Offsets |       |           |     |              |                             |
|---------|-------|-----------|-----|--------------|-----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description                 |
| 236     | (EC)  | STRUCTURE | 48  | CPLIVLOI (*) |                             |
| 236     | (EC)  | CHARACTER | 10  | CPLIVLFR     | INTERVAL START              |
| 236     | (EC)  | CHARACTER | 6   | CPLIVLFD     | DATE YYMMDD                 |
| 242     | (F2)  | CHARACTER | 4   | CPLIVLFT     | TIME HHMM                   |
| 246     | (F6)  | CHARACTER | 10  | CPLIVLTO     | INTERVAL END                |
| 246     | (F6)  | CHARACTER | 6   | CPLIVLTD     | DATE YYMMDD                 |
| 252     | (FC)  | CHARACTER | 4   | CPLIVLTT     | TIME HHMM                   |
| 256     | (100) | UNSIGNED  | 2   | CPLIVL#PS    | MAX PARALLEL SERVERS        |
| 258     | (102) | UNSIGNED  | 2   | CPLIVL#DPPS  | SAME, SET AT DAILY PLANNING |
| 260     | (104) | BITSTRING | 1   | CPLIVLF2     | FLAGS                       |
|         |       | 1... ..   |     | CPLIVLMC     | IVL SET BY MCP              |
|         |       | .1... ..  |     | CPLIVLDP     | IVL SET BY DP (WSD)         |
|         |       | ..11 1111 |     | *            | FREE                        |
| 261     | (105) | CHARACTER | 1   | *            | FREE                        |

| Offsets |       |           |     |             |                            |
|---------|-------|-----------|-----|-------------|----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description                |
| 262     | (106) | UNSIGNED  | 2   | CPLIVL#R1   | CURRENT RESOURCE CAPACITY  |
| 264     | (108) | UNSIGNED  | 2   | CPLIVL#DPR1 | CAPACITY SET AT DAILY PLAN |
| 266     | (10A) | UNSIGNED  | 2   | CPLIVL#R2   | CURRENT RESOURCE CAPACITY  |
| 268     | (10C) | UNSIGNED  | 2   | CPLIVL#DPR2 | CAPACITY SET AT DAILY PLAN |
| 270     | (10E) | CHARACTER | 4   | CPLIVLAWS   | ALTERNATE WS NAME          |
| 274     | (112) | CHARACTER | 4   | CPLIVLDPAWS | ALT WS BY DP               |
| 278     | (116) | CHARACTER | 6   | *           | FREE                       |

## Access method segment

### Example

You can have the access method segment only if CPLACCM# is greater than 0 in the common data segment.

| Offsets |      |           |     |            |                    |
|---------|------|-----------|-----|------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description        |
| 0       | (0)  | STRUCTURE | 72  | CPLACC (*) |                    |
| 0       | (0)  | CHARACTER | 12  | CPLACCMN   | ACCESS METHOD NAME |
| 12      | (C)  | CHARACTER | 52  | CPLADR     | SAP HOST ADDRESS   |
| 12      | (C)  | CHARACTER | 26  | CPLADR1    | SAP ADDR 1ST PART  |
| 38      | (26) | CHARACTER | 26  | CPLADR2    | SAP ADDR 2ND PART  |
| 64      | (40) | SIGNED    | 4   | CPLPORT    | SAP PORT NUMBER    |
| 68      | (44) | CHARACTER | 4   | *          | FREE               |

## E2E options data

| Offsets |      |           |     |             |                      |
|---------|------|-----------|-----|-------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description          |
| 0       | (0)  | STRUCTURE | 175 | CPLEOPT (*) |                      |
| 0       | (0)  | CHARACTER | 47  | CPLEOJU     | DEFAULT JOB USER     |
| 47      | (2F) | CHARACTER | 1   | CPLEOJP     | DEFAULT JOB PASSWORD |



| Offsets |      |           |     |            |                      |
|---------|------|-----------|-----|------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description          |
| 48      | (30) | CHARACTER | 40  | CPLEOJT    | DEFAULT JOB PASSWORD |
| 88      | (58) | CHARACTER | 1   | CPLEOBR    | IS A BROKER (Y/N)    |
| 89      | (59) | CHARACTER | 40  | CPLEOPL    | BROKER POOL          |
| 129     | (81) | CHARACTER | 40  | CPLEODP    | BROKER DYNAMIC POOL  |
| 169     | (A9) | CHARACTER | 7   | *          | FREE                 |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLACC       | 0          |           | 1     |
| CPLACCM#     | D2         |           | 4     |
| CPLACCMN     | 0          |           | 2     |
| CPLADR       | C          |           | 2     |
| CPLADR1      | C          |           | 3     |
| CPLADR2      | 26         |           | 3     |
| CPLAUTO      | D1         |           | 4     |
| CPLAWS_VARY  | 9F         | 01        | 5     |
| CPLBDY02     | 13         |           | 3     |
| CPLCAWS02    | C0         |           | 4     |
| CPLCMDLNK    | D0         | 08        | 5     |
| CPLCMDSTA    | D0         | 04        | 5     |
| CPLCOFF_DATE | B8         |           | 5     |
| CPLCOFF_TIME | BC         |           | 5     |
| CPLCOFF02    | B8         |           | 4     |
| CPLCOM02     | 0          |           | 2     |
| CPLCREVT     | 7C         |           | 4     |
| CPLCWS_STAT  | B5         |           | 4     |
| CPLDATE      | 7C         |           | 5     |
| CPLDESCR02   | 18         |           | 4     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPLEOBR     | 58         |           | 2     |
| CPLEODP     | 81         |           | 2     |
| CPLEOJP     | 2F         |           | 2     |
| CPLEOJT     | 30         |           | 2     |
| CPLEOJU     | 0          |           | 2     |
| CPLEOPL     | 59         |           | 2     |
| CPLEOPT     | 0          |           | 1     |
| CPLEOPT#    | E4         |           | 4     |
| CPLEYE02    | 13         |           | 4     |
| CPLFLGTWS   | D0         |           | 4     |
| CPLFLG02    | 9F         |           | 4     |
| CPLFULLNK   | D0         | 02        | 5     |
| CPLFULLYACT | D6         |           | 4     |
| CPLIVL#DPPS | 102        |           | 2     |
| CPLIVL#DPR1 | 108        |           | 2     |
| CPLIVL#DPR2 | 10C        |           | 2     |
| CPLIVL#I    | B0         |           | 4     |
| CPLIVL#PS   | 100        |           | 2     |
| CPLIVL#R1   | 106        |           | 2     |
| CPLIVL#R2   | 10A        |           | 2     |
| CPLIVLAWS   | 10E        |           | 2     |
| CPLIVLDP    | 104        | 40        | 3     |
| CPLIVLDPAWS | 112        |           | 2     |
| CPLIVLFD    | EC         |           | 3     |
| CPLIVLFR    | EC         |           | 2     |
| CPLIVLFT    | F2         |           | 3     |
| CPLIVLF2    | 104        |           | 2     |
| CPLIVLMC    | 104        | 80        | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPLIVLNP    | 9F         | 20        | 5     |
| CPLIVLNU    | 9F         | 40        | 5     |
| CPLIVLOI    | EC         |           | 1     |
| CPLIVLTD    | F6         |           | 3     |
| CPLIVLTO    | F6         |           | 2     |
| CPLIVLTT    | FC         |           | 3     |
| CPLKEY02    | 0          |           | 3     |
| CPLKF02     | 6          |           | 4     |
| CPLLIMIT    | D4         |           | 4     |
| CPLLNKDW    | D0         | 20        | 5     |
| CPLLNKVA    | D0         | 80        | 5     |
| CPLLNK02    | CF         |           | 4     |
| CPLMAX15    | B2         |           | 4     |
| CPLOFF_PEND | 9F         | 04        | 5     |
| CPLPORT     | 40         |           | 2     |
| CPLPREDT    | A0         |           | 5     |
| CPLPREEV    | A0         |           | 4     |
| CPLPREP     | 9F         | 80        | 5     |
| CPLPRETM    | A4         |           | 5     |
| CPLREC02    | 0          |           | 1     |
| CPLRENGT    | D7         |           | 4     |
| CPLRLTYP    | 9E         |           | 4     |
| CPLRSEQ#02  | C6         |           | 4     |
| CPLRTR_PEND | 9F         | 02        | 5     |
| CPLSSEQ#02  | C4         |           | 4     |
| CPLSTAVA    | D0         | 40        | 5     |
| CPLSTC      | 9F         | 10        | 5     |
| CPLSUDES    | A8         |           | 4     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLSUMA   | 68         |           | 4     |
| CPLSUMC   | 38         |           | 4     |
| CPLSUMC#  | 38         |           | 5     |
| CPLSUMCE  | 3C         |           | 5     |
| CPLSUMCES | C7         |           | 4     |
| CPLSUMCR  | 40         |           | 5     |
| CPLSUMCRS | C8         |           | 4     |
| CPLSUMD   | DC         |           | 4     |
| CPLSUME   | 74         |           | 4     |
| CPLSUMH   | E0         |           | 4     |
| CPLSUMI   | 44         |           | 4     |
| CPLSUMI#  | 44         |           | 5     |
| CPLSUMIE  | 48         |           | 5     |
| CPLSUMIES | C9         |           | 4     |
| CPLSUMIR  | 4C         |           | 5     |
| CPLSUMIRS | CA         |           | 4     |
| CPLSUML   | 78         |           | 4     |
| CPLSUMNRR | 6C         |           | 4     |
| CPLSUMR   | 58         |           | 4     |
| CPLSUMR#  | 58         |           | 5     |
| CPLSUMRE  | 5C         |           | 5     |
| CPLSUMRES | CC         |           | 4     |
| CPLSUMS   | 50         |           | 4     |
| CPLSUMS#  | 50         |           | 5     |
| CPLSUMSE  | 54         |           | 5     |
| CPLSUMSES | CB         |           | 4     |
| CPLSUMU   | 70         |           | 4     |
| CPLSUMW   | 60         |           | 4     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLSUMW#   | 60         |           | 5     |
| CPLSUMWE   | 64         |           | 5     |
| CPLSUMWES  | CD         |           | 4     |
| CPLSUMX    | 84         |           | 4     |
| CPLTIME    | 80         |           | 5     |
| CPLTRT02   | B6         |           | 4     |
| CPLUX009   | 9C         | 20        | 5     |
| CPLVERS02  | 17         |           | 4     |
| CPLVMAX15  | D8         |           | 4     |
| CPLWRTST   | D0         | 10        | 5     |
| CPLWSDYN   | 96         | 02        | 5     |
| CPLWSN02   | 2          |           | 4     |
| CPLWSREP   | 91         |           | 4     |
| CPLWSR1C   | 96         | 80        | 5     |
| CPLWSR1FLG | 96         |           | 4     |
| CPLWSR1IU# | 94         |           | 4     |
| CPLWSR1N   | 92         |           | 4     |
| CPLWSR2C   | 9C         | 80        | 5     |
| CPLWSR2FLG | 9C         |           | 4     |
| CPLWSR2IU# | 9A         |           | 4     |
| CPLWSR2N   | 98         |           | 4     |
| CPLWSSTA   | B4         |           | 4     |
| CPLWSSTAT  | 9C         | 40        | 5     |
| CPLWSTWS   | CE         |           | 4     |
| CPLWSTYP   | 90         |           | 4     |
| CPLWSVAR   | EC         |           | 2     |
| CPLWSVIRT  | 96         | 10        | 5     |
| CPLWSWAIT  | 96         | 20        | 5     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLWSZCAGENT | 96         | 08        | 5     |
| CPLWTO       | 9F         | 08        | 5     |

## CPLREC04 - Current plan job name table record

### Example

Name : DCLCPR04

Function:

This segment declares a jobname table record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC04 record is structured as follows:

- 1 CPLREC04
- 2 common data
- 2 jnt entries ( )
- 2 step entries ( )

## Common data segment

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 0       | (0)  | STRUCTURE | *   | CPLREC04   | JOBNAME TABLE RECORD        |
| 0       | (0)  | CHARACTER | 19  | CPLKEY04   |                             |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 04           |
| 2       | (2)  | CHARACTER | 8   | CPLJOB04   | JOBNAME                     |
| 10      | (A)  | CHARACTER | 5   | CPLLOT04   | LATEST OUT OF CPU OP        |
| 10      | (A)  | UNSIGNED  | 1   | CPLLOY04   | YEAR                        |
| 11      | (B)  | UNSIGNED  | 1   | CPLLOM04   | MONTH                       |
| 12      | (C)  | UNSIGNED  | 1   | CPLLOD04   | DAY                         |
| 13      | (D)  | SIGNED    | 2   | CPLLOI04   | TIME IN MIN. (HH*100+MM)    |
| 15      | (F)  | CHARACTER | 4   | CPLCID04   | CPU OPERATION IDENTIFICAT-N |
| 15      | (F)  | UNSIGNED  | 3   | CPLCOC04   | OCCURRENCE NUMBER           |
| 18      | (12) | UNSIGNED  | 1   | CPLCOP04   | OPERATION NUMBER            |
| 19      | (13) | CHARACTER | 77  | CPLBDY04   | BODY OF JOBNAME TABLE       |
| 19      | (13) | CHARACTER | 4   | CPLYE04    | EYECATCHER                  |

| Offsets |      |           |     |            |                                           |
|---------|------|-----------|-----|------------|-------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                               |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS04  | VERSION NUMBER                            |
| 24      | (18) | SIGNED    | 2   | CPLASID04  | ASID                                      |
| 26      | (1A) | SIGNED    | 2   | CPLNET04   | NETWORK ID                                |
| 28      | (1C) | CHARACTER | 8   | CPLJES04   | JES2 OR JES3 JOB ID                       |
| 36      | (24) | SIGNED    | 4   | CPLRDD04   | SMF READER DATE                           |
| 40      | (28) | SIGNED    | 4   | CPLRDT04   | SMF READER TIME                           |
| 44      | (2C) | SIGNED    | 4   | CPL#RC04   | NUMBER OF JNT ENTRIES                     |
| 48      | (30) | CHARACTER | 1   | CPLJST04   | JOB STATUS H=HELD, Q=ONQUE                |
| 49      | (31) | CHARACTER | 1   | CPLSYS04   | SYSTEM A=JES2, B=JES3                     |
| 50      | (32) | CHARACTER | 1   | CPLFLG04   | STATUS FLAGS                              |
|         |      | 1... ..   |     | CPLAJR04   | ON = RELEASE JOB IF HELD                  |
|         |      | .1.. ..   |     | *          | DO NOT USE                                |
|         |      | ..1. .... |     | CPLERR04   | ON = ERROR MESSAGE ISSUED                 |
|         |      | ...1 .... |     | CPLTJT04   | ON=CPU OP IS TIME JOB                     |
|         |      | .... 1... |     | CPLAEC04   | ON=AUTOMATIC ERROR COMPL.                 |
|         |      | .... .1.. |     | CPL3SJ04   | ON=JOB HAS ENDED                          |
|         |      | .... ..1. |     | CPL2EV04   | ON=JOB HAS STARTED                        |
|         |      | .... ...1 |     | CPLSO004   | SUBMITTED OUTSIDE THE SCHEDULER           |
| 51      | (33) | CHARACTER | 1   | CPLFLG042  | MORE STATUS FLAGS                         |
|         |      | 1... ..   |     | CPLAJS04   | ON = AUTOMATIC SUBMIT OFF= DO NOT SUBMIT  |
|         |      | .1.. .... |     | CPL0T004   | ON = OVERRIDE TRACK OPTION IN EV.MATCHING |
|         |      | ..1. .... |     | CPLRST04   | JOB HAS BEEN RESTARTED                    |
|         |      | ...1 .... |     | CPL0DL04   | CORRESP OPER DELETED                      |
|         |      | .... 1... |     | CPLSP004   | SPIN OFF DS SENT ON NJE                   |
|         |      | .... .1.. |     | CPLPUR04   | B5 EVENT SKIPPED                          |
|         |      | .... ..1. |     | CPLNJ#04   | NO JOBNUMBER FROM EXI                     |

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
|         |      | .... ...1 |     | CPLASET04  | ERRRES IN ACTION         |
| 52      | (34) | BITSTRING | 1   | CPLFLG043  | FLAGS                    |
|         |      | 1... .... |     | CPLWRER04  | ON=CPU OP REROUTED       |
|         |      | .1.. .... |     | CPLRERUT04 | ON=CPU OP REROUTEABLE    |
|         |      | ..1. .... |     | CPLDIRER04 | ON=INST PARM REREOTE     |
|         |      | ...1 .... |     | CPLRESTA04 | ON=CPU OP RESTARTABLE    |
|         |      | .... 1... |     | CPLDIRES04 | ON=INST PARM RESTART     |
|         |      | .... .1.. |     | CPLRDR04   | SAME JOBNAME/RDR TIME    |
|         |      | .... ..11 |     | CPLETT04   | ADDED VIA ETT            |
|         |      |           |     | *          | RESERVED                 |
| 53      | (35) | CHARACTER | 1   | *          | RESERVED                 |
| 54      | (36) | SIGNED    | 2   | CPLGMT04   | GMT OFFSET FOR RDR EVT   |
| 56      | (38) | SIGNED    | 4   | CPLORG04   | NJE ORIGIN JOB NUMBER    |
| 60      | (3C) | CHARACTER | 8   | CPLSUB04   | SUBMIT DATE AND TIME     |
| 60      | (3C) | CHARACTER | 4   | CPLSUD04   | DATE (FORMAT 00YYDDDF)   |
| 64      | (40) | CHARACTER | 4   | CPLSUT04   | TIME (FORMAT 100*SECS)   |
| 68      | (44) | CHARACTER | 4   | CPLERC04   | ER CODE FROM 3SJ EVENT   |
| 72      | (48) | SIGNED    | 4   | CPL#SC04   | NO. STEP COMP. ENTRIES   |
| 76      | (4C) | SIGNED    | 4   | CPLABN04   | INDEX OF ABENDING STEP   |
| 80      | (50) | BITSTRING | 1   | CPLARB04   |                          |
|         |      | 1... .... |     | CPLARF04   | AUTO RECOVER, 1ST TIME   |
|         |      | .1.. .... |     | CPLBSN04   | IMPROPER STEP NAMING     |
|         |      | ..1. .... |     | CPLMAS04   | FOR TERMINATING STEP     |
|         |      | ...1 .... |     | CPLMSS04   | ALL FOR A JS REC. STEP   |
|         |      | .... 1... |     | CPLMIS04   | AT LEAST ONE             |
|         |      | .... .1.. |     | CPLSND04   | STEP END ENTRY AVAILABLE |
|         |      | .... ..1. |     | CPLEOSYS04 | ERROR SET BY WS FAIL     |



| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
|         |      | .... ...1 |     | CPLEOFFL04 | ERROR SET BY WS OFFL    |
| 81      | (51) | CHARACTER | 8   | CPLNOD04   | CURRENT NJE NODE NAME   |
| 89      | (59) | CHARACTER | 4   | CPLAWS04   | REROUTED ALT WS NAME    |
| 93      | (5D) | CHARACTER | 1   | *          | STEP EVENTS             |
|         |      | 1... .... |     | CPLSNZ04   | STEP EVENTS NZERO FLAG  |
|         |      | .1.. .... |     | CPLSTALL04 | STEPEVENTS(ALL)         |
|         |      | ..1. .... |     | CPLWLMAR   | ALREADY HPWLM CLASS RQ  |
|         |      | ...1 1111 |     | *          | FREE                    |
| 94      | (5E) | SIGNED    | 2   | CPLARSTE04 | AR RESTART STEP NUMBER  |
| 96      | (60) | CHARACTER | *   | CPLVAR04   | VARIABLE PART OF RECORD |

## JNT entries segment

### Example

The value of CPL#RC04 in the common data segment describes the number of JNT entries segments.

| Offsets |      |           |     |              |                          |
|---------|------|-----------|-----|--------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description              |
| 96      | (60) | STRUCTURE | *   | CPLENS04     | JNT ENTRIES              |
| 96      | (60) | CHARACTER | 20  | CPLENT04 (*) | JNT ENTRY                |
| 96      | (60) | CHARACTER | 4   | CPLWSN04     | WORKSTATION NAME         |
| 100     | (64) | CHARACTER | 4   | CPLOPX04     | INDEX TO OPER RECORD     |
| 100     | (64) | UNSIGNED  | 3   | CPLOCC04     | OCC NUMBER               |
| 103     | (67) | UNSIGNED  | 1   | CPLOP04      | OPERATION NUMBER         |
| 104     | (68) | CHARACTER | 1   | CPLCLS04     | JOB OR SYSOUTCLASS       |
| 105     | (69) | CHARACTER | 8   | CPLFRM04     | FORMNUMBER (PRINT WS)    |
| 105     | (69) | CHARACTER | 8   | CPLNJE04     | ORIGIN NJE NODE (CPU WS) |
| 113     | (71) | CHARACTER | 1   | CPLOST04     | OPERATION STATUS         |
| 114     | (72) | CHARACTER | 2   | *            | FREE                     |

## Step entries segment

### Example

The value of CPL#SC04 in the common data segment describes the number of step entries segments.

| Offsets |      |           |     |              |                                                                                                                                                                                                             |
|---------|------|-----------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                                                                                                                                                                 |
| 0       | (0)  | STRUCTURE | *   | CPLSTP04     |                                                                                                                                                                                                             |
| 0       | (0)  | CHARACTER | 20  | CPLSMF04 (*) |                                                                                                                                                                                                             |
| 0       | (0)  | CHARACTER | 8   | CPLSCP04     | NAME OF STEP CALLING PROC.                                                                                                                                                                                  |
|         |      | 1... ..   |     | *            | RESERVED                                                                                                                                                                                                    |
|         |      | .1... ..  |     | CPLSUR04     | POSITIVE IDENTIFICATION                                                                                                                                                                                     |
| 8       | (8)  | CHARACTER | 8   | CPLPSN04     | PROCEDURE STEP NAME                                                                                                                                                                                         |
| 16      | (10) | CHARACTER | 4   | CPLSCC04     | STEP COMPLETION CODE FROM SMF<br>KEPT HERE UNTIL JOB ENDS. IT HAS<br>THE FOLLOWING FORMAT:<br><br>'SXXX' (SYSTEM<br>ABEND)<br>'UXXX' (USER<br>ABEND)<br>'FLSH' (STEP<br>FLUSHED)<br>'XXXX' (RETURN<br>CODE) |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPL#RC04 | 2C         |           | 3     |
| CPL#SC04 | 48         |           | 3     |
| CPLABN04 | 4C         |           | 3     |
| CPLAEC04 | 32         | 08        | 4     |
| CPLAJR04 | 32         | 80        | 4     |
| CPLAJS04 | 33         | 80        | 4     |
| CPLARB04 | 50         |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLARF04   | 50         | 80        | 4     |
| CPLARSTE04 | 5E         |           | 3     |
| CPLASET04  | 33         | 01        | 4     |
| CPLASID04  | 18         |           | 3     |
| CPLAWS04   | 59         |           | 3     |
| CPLBDY04   | 13         |           | 2     |
| CPLBSN04   | 50         | 40        | 4     |
| CPLCID04   | F          |           | 3     |
| CPLCLS04   | 68         |           | 3     |
| CPLCOC04   | F          |           | 4     |
| CPLCOP04   | 12         |           | 4     |
| CPLDIRER04 | 34         | 20        | 4     |
| CPLDIRES04 | 34         | 08        | 4     |
| CPLENS04   | 60         |           | 1     |
| CPLENT04   | 60         |           | 2     |
| CPLEOFFL04 | 50         | 01        | 4     |
| CPLEOSYS04 | 50         | 02        | 4     |
| CPLERC04   | 44         |           | 3     |
| CPLERR04   | 32         | 20        | 4     |
| CPLETT04   | 34         | 02        | 4     |
| CPLEYE04   | 13         |           | 3     |
| CPLFLG04   | 32         |           | 3     |
| CPLFLG042  | 33         |           | 3     |
| CPLFLG043  | 34         |           | 3     |
| CPLFRM04   | 69         |           | 3     |
| CPLGMT04   | 36         |           | 3     |
| CPLJES04   | 1C         |           | 3     |
| CPLJOB04   | 2          |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLJST04   | 30         |           | 3     |
| CPLKEY04   | 0          |           | 2     |
| CPLUD04    | C          |           | 4     |
| CPLUI04    | D          |           | 4     |
| CPLUM04    | B          |           | 4     |
| CPLUT04    | A          |           | 3     |
| CPLUY04    | A          |           | 4     |
| CPLMAS04   | 50         | 20        | 4     |
| CPLMIS04   | 50         | 08        | 4     |
| CPLMSS04   | 50         | 10        | 4     |
| CPLNET04   | 1A         |           | 3     |
| CPLNJ#04   | 33         | 02        | 4     |
| CPLNJE04   | 69         |           | 4     |
| CPLNOD04   | 51         |           | 3     |
| CPLOCC04   | 64         |           | 4     |
| CPLODL04   | 33         | 10        | 4     |
| CPLOPX04   | 64         |           | 3     |
| CPLOP04    | 67         |           | 4     |
| CPLORG04   | 38         |           | 3     |
| CPLOST04   | 71         |           | 3     |
| CPLOTO04   | 33         | 40        | 4     |
| CPLPSN04   | 8          |           | 3     |
| CPLPUR04   | 33         | 04        | 4     |
| CPLRDD04   | 24         |           | 3     |
| CPLRDR04   | 34         | 04        | 4     |
| CPLRDT04   | 28         |           | 3     |
| CPLREC04   | 0          |           | 1     |
| CPLRERUT04 | 34         | 40        | 4     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLRESTA04 | 34         | 10        | 4     |
| CPLRST04   | 33         | 20        | 4     |
| CPLSCC04   | 10         |           | 3     |
| CPLSCP04   | 0          |           | 3     |
| CPLSMF04   | 0          |           | 2     |
| CPLSND04   | 50         | 04        | 4     |
| CPLSNZ04   | 5D         | 80        | 4     |
| CPLSOO04   | 32         | 01        | 4     |
| CPLSP004   | 33         | 08        | 4     |
| CPLSTALL04 | 5D         | 40        | 4     |
| CPLSTP04   | 0          |           | 1     |
| CPLSUB04   | 3C         |           | 3     |
| CPLSUD04   | 3C         |           | 4     |
| CPLSUR04   | 0          | 40        | 4     |
| CPLSUT04   | 40         |           | 4     |
| CPLSYS04   | 31         |           | 3     |
| CPLTJT04   | 32         | 10        | 4     |
| CPLVAR04   | 60         |           | 2     |
| CPLVERS04  | 17         |           | 3     |
| CPLWLMAR   | 5D         | 20        | 4     |
| CPLWRER04  | 34         | 80        | 4     |
| CPLWSN04   | 60         |           | 3     |
| CPL2EV04   | 32         | 02        | 4     |
| CPL3SJ04   | 32         | 04        | 4     |

## CPLREC05 - Current plan application index record

### Example

Name : DCLCPR05

Function:

This segment declares an application index record, physically located in EQQCPxDS and EQQNCPDS.

| Offsets |      |           |     |            |                                                                                                       |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                           |
| 0       | (0)  | STRUCTURE | *   | CPLREC05   | AD ID INDEX RECORD                                                                                    |
| 0       | (0)  | CHARACTER | 19  | CPLKEY05   |                                                                                                       |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 05                                                                                     |
| 2       | (2)  | CHARACTER | 16  | CPLAID05   | APPLICATION                                                                                           |
| 18      | (12) | UNSIGNED  | 1   | CPLSEQ05   | CP05 SEQUENCE NUMBER 0 FOR SPECIAL CP05 REC                                                           |
| 19      | (13) | CHARACTER | *   | CPLBDY05   | BODY OF AD ID INDEX RECORD                                                                            |
| 19      | (13) | CHARACTER | 4   | CPLYE05    | EYECATCHER                                                                                            |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS05  | VERSION NUMBER                                                                                        |
| 24      | (18) | SIGNED    | 2   | CPLOC05    | NUMBER OF OCCURRENCES FOR INDEX RECORD (CPLSEQ05X=0) CONTAINS THE NUMBER OF CP05 RECORDS IN THE CHAIN |
| 26      | (1A) | CHARACTER | 6   | *          | FREE                                                                                                  |
| 32      | (20) | CHARACTER | *   | CPLVAR05   | VARIABLE PART OF RECORD                                                                               |

| Offsets |      |           |     |              |                            |
|---------|------|-----------|-----|--------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                |
| 0       | (0)  | STRUCTURE | *   | CPLOCS05     | OCCURRENCES DATA           |
| 0       | (0)  | CHARACTER | 32  | CPLOCC05 (*) | OCCURRENCE DATA            |
| 0       | (0)  | CHARACTER | 10  | CPLIA05      | INPUT ARRIVAL              |
| 0       | (0)  | CHARACTER | 6   | CPLIAD05     | DATE                       |
| 6       | (6)  | CHARACTER | 4   | CPLIAT05     | TIME                       |
| 10      | (A)  | CHARACTER | 10  | CPLADL05     | ACTUAL COMPLETION DELETION |
| 10      | (A)  | CHARACTER | 6   | CPLDLD05     | DATE BLANK                 |
| 16      | (10) | CHARACTER | 4   | CPLDLT05     | TIME 0000                  |

| Offsets |      |           |     |            |                                                                                                                                                                |
|---------|------|-----------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                                                    |
| 20      | (14) | UNSIGNED  | 3   | CPLOCX05   | OCCURRENCE NUMBER                                                                                                                                              |
| 23      | (17) | SIGNED    | 2   | CPLNET05   | NETWORK ID                                                                                                                                                     |
| 25      | (19) | CHARACTER | 1   | CPLSTA05   | OCCURRENCE STATUS U = UNDECIDED<br>W = WAITING S = STARTED E = ENDED IN<br>ERROR C = COMPLETED D = DELETED P =<br>PENDING PREDECESSOR M = Mandatory<br>pending |
| 26      | (1A) | 1... ..   |     | CPLCLT05   | 1 MEANS ALREADY MARKED..COMPLETE<br>ON LTP                                                                                                                     |
|         |      | .1... ..  |     | CPLMCP05   | 1 MEANS ADDED BY MCP                                                                                                                                           |
|         |      | ..1. .... |     | CPLIAM05   | 1 MEANS IA MODIFIED BY MCP                                                                                                                                     |
|         |      | ...1 .... |     | CPLCFR05   | 1 MEANS COPIED FOR REPORT                                                                                                                                      |
|         |      | .... 1... |     | CPLMPEND05 | 1 MEANS ORIG MPEND                                                                                                                                             |
|         |      | .... .111 |     | *          | FREE                                                                                                                                                           |
| 27      | (1B) | CHARACTER | 1   | CPLOCA05   | D MEANS ADDED BY MCP- DIALOG E<br>MEANS ADDED BY ETT P MEANS ADDED<br>BY PIF A MEANS ADDED BY AR BLANK<br>MEANS DP                                             |
| 28      | (1C) | CHARACTER | 1   | CPLOCDB2   | Y = ADDED TO DB2                                                                                                                                               |
| 29      | (1D) | CHARACTER | 1   | CPLCP16AD  | Y = ADDED TO CP16 D90A                                                                                                                                         |
| 30      | (1E) | CHARACTER | 2   | *          | FREE D90C                                                                                                                                                      |

## ENTRIES OF INDEX RECORD CPLSEQ050

| Offsets |     |           |     |               |                        |
|---------|-----|-----------|-----|---------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description            |
| 0       | (0) | STRUCTURE | *   | CPLIDX05      | INDEX RECORD ENTRY     |
| 0       | (0) | CHARACTER | 32  | CPLOCCX05 (*) | SINGLE CP05 RECORDS IX |
| 0       | (0) | CHARACTER | 10  | CPLFIA05      | FIRST INPUT ARRIVAL    |
| 0       | (0) | CHARACTER | 6   | CPLFIAD05     | DATE                   |

| Offsets |      |           |     |            |                    |
|---------|------|-----------|-----|------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description        |
| 6       | (6)  | CHARACTER | 4   | CPLFIAT05  | TIME               |
| 10      | (A)  | CHARACTER | 10  | CPLLIA05   | LAST INPUT ARRIVAL |
| 10      | (A)  | CHARACTER | 6   | CPLLIAD05  | DATE               |
| 16      | (10) | CHARACTER | 4   | CPLLIAT05  | TIME               |
| 20      | (14) | SIGNED    | 2   | CPLOCN05   | OCCURRENCE NUMBER  |
| 22      | (16) | CHARACTER | 10  | *          | RESERVED           |

### Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| cplbnd     | 1AC        |           | 4     |
| cplcdeop   | 1A0        |           | 4     |
| CPLCond_F  | 19C        |           | 4     |
| CPLCond_T  | 19A        |           | 4     |
| CPLCond_U  | 19E        |           | 4     |
| CPLCondTot | 198        |           | 4     |
| CPLCPROP   | 194        |           | 4     |
| CPLCSUOP   | 196        |           | 4     |
| CPLDEOP    | E8         |           | 4     |
| CPLPCOP    | EA         |           | 4     |
| CPLPROP    | E6         |           | 4     |
| CPLPSOP    | D2         |           | 4     |
| CPLPXOP    | 1A2        |           | 4     |
| CPLR1OP    | D4         |           | 4     |
| CPLR2OP    | D6         |           | 4     |
| CPLSROP    | EC         |           | 4     |
| CPLSUOP    | E4         |           | 4     |
| CPLAADOP   | AA         |           | 5     |
| CPLAAOP    | AA         |           | 4     |



| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLAATOP   | B0         |           | 5     |
| CPLADIOP   | 1A         |           | 4     |
| CPLADUOP   | CC         |           | 4     |
| CPLAECOP   | DD         |           | 4     |
| CPLAEDOP   | BE         |           | 5     |
| CPLAEOP    | BE         |           | 4     |
| CPLAETOP   | C4         |           | 5     |
| CPLAJR     | EE         | 02        | 5     |
| cplAlcTime | 38         |           | 2     |
| CPLALTWS   | FE         |           | 4     |
| CPLASDOP   | A0         |           | 5     |
| CPLASIDJOB | 128        |           | 4     |
| CPLASOP    | A0         |           | 4     |
| CPLASSOP   | EE         | 20        | 5     |
| CPLASTOP   | A6         |           | 5     |
| CPLASUOP   | EE         | 04        | 5     |
| cplAutInf  | 15F        |           | 4     |
| CPLBDYOP   | C          |           | 3     |
| CPLBNDDEL  | 8          | 80        | 3     |
| CPLBNDFLAG | 8          |           | 2     |
| CPLBNDOP   | 0          |           | 1     |
| CPLBND99K  | 0          |           | 2     |
| cplCIncm   | 65         | 02        | 5     |
| cplCInDia  | 14A        |           | 4     |
| cplCInRes  | 149        |           | 4     |
| cplCInStat | 19         |           | 4     |
| cplCInTyp  | 12A        |           | 4     |
| CPLCOM3P   | 0          |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| CPLCondId      | 1A8        |           | 4     |
| cplcondrjob    | 16E        | 02        | 5     |
| CPLCPCOOP      | 0          | 40        | 3     |
| CPLCPMatc      | 1          |           | 2     |
| CPLCPNDOP      | 0          | 80        | 3     |
| CPLCPOCOP      | 4          |           | 3     |
| CPLCPOP        | 4          |           | 2     |
| CPLCPOP_cid    | 2          |           | 2     |
| CPLCPOPOP      | 7          |           | 3     |
| CPLCPREOP      | 0          |           | 1     |
| CPLCPSWOP      | 0          |           | 2     |
| cplCP15req     | 65         | 20        | 5     |
| cplCritJobPred | 16E        | 10        | 5     |
| cplCritPath    | 178        |           | 4     |
| cplCritPred    | 0          | 10        | 3     |
| cplCrtPthX     | 180        |           | 4     |
| CPLCSOCOP      | 4          |           | 3     |
| CPLCSOP        | 4          |           | 2     |
| CPLCSOP_cid    | 2          |           | 2     |
| CPLCSOPOP      | 7          |           | 3     |
| CPLCSSWOP      | 0          |           | 2     |
| CPLCSTOP       | D8         |           | 4     |
| CPLCSUCOP      | 0          |           | 1     |
| CPLCSUFLAG     | 1          |           | 2     |
| CPLCSUSTEP     | 1          | 80        | 3     |
| CPLDEFLT       | 65         | 80        | 5     |
| CPLDEPTOP      | F8         |           | 4     |
| CPLDIRER       | F9         | 10        | 5     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPLDIRES      | F9         | 40        | 5     |
| cplDOAtime    | 154        |           | 5     |
| cpldpem       | 16E        | 08        | 5     |
| cpldrecoy     | 1AE        | 40        | 5     |
| CPLDWT0       | F9         | 04        | 5     |
| CPLDWTOP      | F9         | 01        | 5     |
| CPLDWTOS      | F9         | 02        | 5     |
| cpldyn        | 1AE        | 80        | 5     |
| cplEarE       | 17C        |           | 4     |
| CPLEDUOP      | C8         |           | 4     |
| cplEQQCLJBN   | 154        |           | 4     |
| cplEQQCLjid   | 14B        |           | 4     |
| cplerfail     | 153        | 08        | 5     |
| CPLERKOP      | E0         |           | 4     |
| CPLEROOP      | E2         |           | 4     |
| CPLERROP      | D9         |           | 4     |
| cplEXdest     | 120        |           | 4     |
| cplexec       | 65         | 04        | 5     |
| cplexit13rc   | 1AE        | 08        | 5     |
| cplExpJCL     | 114        | 01        | 5     |
| cplexpjclUSED | 153        | 40        | 5     |
| cplExtInf     | 15D        |           | 4     |
| CPLEXTOP      | EE         | 40        | 5     |
| CPLEYE3P      | C          |           | 4     |
| cplFakeSub    | 16F        | 02        | 5     |
| cplflag05     | 114        |           | 4     |
| cplflag06     | 153        |           | 4     |
| cplflag07     | 15C        |           | 4     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| cplflag08  | 16E        |           | 4     |
| cplflag09  | 16F        |           | 4     |
| cplflag10  | 1AE        |           | 4     |
| CPLFLGOP   | EE         |           | 4     |
| CPLFLG02   | EF         |           | 4     |
| CPLFLG03   | F9         |           | 4     |
| CPLFLG05   | 65         |           | 4     |
| CPLFRMOP   | 66         |           | 4     |
| cplFromPLC | 15C        | 10        | 5     |
| cplFTSAnop | 16E        | 20        | 5     |
| cplftwRC   | 160        |           | 4     |
| CPLGROUP3P | 11         |           | 4     |
| CPLHRCOP   | FA         |           | 4     |
| CPLHRUOP   | EF         | 04        | 5     |
| CPLIADOP   | 2A         |           | 5     |
| CPLIAOP    | 2A         |           | 4     |
| CPLIATOP   | 30         |           | 5     |
| CPLIDOP    | 5E         |           | 4     |
| cplimmerr  | 114        | 04        | 5     |
| CPLISDOP   | B4         |           | 5     |
| cplisdopf2 | B4         |           | 7     |
| cplisdopl4 | B6         |           | 6     |
| CPLISOP    | B4         |           | 4     |
| CPLISTOP   | BA         |           | 5     |
| CPLJBNOP   | 4E         |           | 4     |
| CPLJCLOP   | 64         |           | 4     |
| cplJESdest | 184        |           | 4     |
| CPLJIDOP   | 56         |           | 4     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLJIDOPN    | 5A         |           | 5     |
| CPLJIDOPP    | 56         |           | 5     |
| cplJLInfo    | 114        | 40        | 5     |
| cplJLOdest   | 13C        |           | 4     |
| cpljobcrt    | 116        |           | 5     |
| cpljobpol    | 117        |           | 5     |
| cplJobTblIdx | 190        |           | 4     |
| cplJRstat    | 115        |           | 4     |
| CPLKEYOP     | 0          |           | 3     |
| CPLKF03P     | 6          |           | 4     |
| CPLKYP3P     | 0          |           | 4     |
| CPLLATEP     | EE         | 01        | 5     |
| CPLLODOP     | 96         |           | 5     |
| CPLLONGP     | EF         | 01        | 5     |
| CPLLOOP      | 96         |           | 4     |
| CPLLOTOP     | 9C         |           | 5     |
| cpluserop    | 134        |           | 4     |
| CPLMCPUP     | F0         |           | 4     |
| cplmhld      | 65         | 10        | 5     |
| cplmonp      | 153        | 80        | 5     |
| cplMoreRun   | 114        | 80        | 5     |
| cplmpendp    | 1AE        | 01        | 5     |
| CPLMPREDopno | 102        |           | 5     |
| cplMvDeadl   | 1AE        | 10        | 5     |
| CPLMXLVL     | 102        |           | 4     |
| CPLNDXOP     | 2          |           | 4     |
| CPLNETOP     | 34         |           | 4     |
| cplnoerr     | 16F        | 08        | 5     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| cplNoerrJT   | 1AE        | 04        | 5     |
| cplNoerrSkip | 1AE        | 02        | 5     |
| cplNoEval    | 16E        | 01        | 5     |
| cplnop       | 65         | 08        | 5     |
| CPLNUMOP     | 62         |           | 5     |
| CPLOC03P     | 2          |           | 5     |
| CPLODDOP     | 8C         |           | 5     |
| CPLDOP       | 8C         |           | 4     |
| CPLDOP       | 92         |           | 5     |
| CPLDOP       | 82         |           | 5     |
| CPLDOP       | 82         |           | 4     |
| CPLDOP       | 88         |           | 5     |
| cplOpEx03p   | 148        |           | 4     |
| cplOpInfo    | 114        | 20        | 5     |
| CPLDOP       | D0         |           | 4     |
| CPLDOP       | 5          |           | 5     |
| CPLDOP       | 1A4        |           | 4     |
| CPLDOP       | 0          | 80        | 3     |
| CPLDOP       | 78         |           | 5     |
| CPLDOP       | EF         | 02        | 5     |
| CPLDOP       | 78         |           | 4     |
| CPLDOP       | 7E         |           | 5     |
| CPLDOP       | 8          |           | 3     |
| CPLDOP       | A          |           | 3     |
| CPLDOP       | 0          | 08        | 3     |
| CPLDOP       | 1          |           | 2     |
| CPLDOP       | 8          |           | 2     |
| CPLDOP       | 0          | 20        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPLPNROP      | 0          | 40        | 3     |
| CPLPOCOP      | 4          |           | 3     |
| CPLPOP        | 4          |           | 2     |
| CPLPOPOP      | 7          |           | 3     |
| CPLPREOP      | 0          |           | 1     |
| CPLPRIOP      | DE         |           | 4     |
| CPLPRPOP      | EF         | 20        | 5     |
| CPLPSDOP      | 6E         |           | 5     |
| CPLPSOP       | 6E         |           | 4     |
| CPLPSTOP      | 74         |           | 5     |
| cplPSUdone    | 114        | 10        | 5     |
| cplPSUtoken   | 144        |           | 4     |
| CPLPSUWAIT    | 65         | 40        | 5     |
| CPLPSWOP      | 0          |           | 2     |
| cplPthOc      | 180        |           | 5     |
| cplPthOp      | 183        |           | 5     |
| CPLPTTOP      | 2          |           | 2     |
| cplRecEnd     | 15C        | 40        | 5     |
| cplrecjob     | 153        | 02        | 5     |
| cplRecovOn    | 16F        | 10        | 5     |
| cplrecprmp    | 153        | 04        | 5     |
| cplrecrun     | 153        | 01        | 5     |
| cplRec24Is    | 15C        | 80        | 5     |
| CPLREC3P      | 0          |           | 1     |
| cplrejst      | 1AB        |           | 4     |
| CPLRELOP      | EF         | 10        | 5     |
| cplIRENG      | 0          |           | 1     |
| cplIRENG_comp | 4B         | 80        | 3     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| cplRENG_flags   | 4B         |           | 2     |
| cplRENG_IA      | 4C         |           | 2     |
| cplRENG_IAD     | 4C         |           | 3     |
| cplRENG_IAT     | 52         |           | 3     |
| cplRENG_IATH    | 52         |           | 4     |
| cplRENG_IATM    | 54         |           | 4     |
| cplRENG_jobname | 10         |           | 2     |
| cplRENG_jsname  | 0          |           | 2     |
| cplRENG_jsws    | 38         |           | 2     |
| cplRENG_opno    | 48         |           | 2     |
| cplRENG_zjob    | 10         |           | 3     |
| cplRENG_zws     | 38         |           | 3     |
| cplRengInf      | 1AA        |           | 4     |
| CPLREROP        | EE         | 80        | 5     |
| CPLRERUT        | F9         | 20        | 5     |
| cplrescnew      | 2D         | 04        | 3     |
| CPLRESTA        | F9         | 80        | 5     |
| cplRUSER        | 164        |           | 4     |
| cplscript       | 15C        | 20        | 5     |
| CPLSCROP        | 0          | 80        | 3     |
| cplsending      | 153        | 20        | 5     |
| cplshadow       | 16F        | 01        | 5     |
| cplshoseq       | 1AE        | 20        | 5     |
| CPLSOCOP        | 2          |           | 3     |
| CPLSOP          | 2          |           | 2     |
| CPLSOPOP        | 5          |           | 3     |
| CPLSPDL         | EE         | 08        | 5     |
| CPLSPIA         | EE         | 10        | 5     |



| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| cplsrAVAcO  | 40         |           | 2     |
| CPLSRVOP    | 2D         | 80        | 3     |
| cplsrerr    | 2E         |           | 2     |
| cplsrldx    | 34         |           | 2     |
| CPLSRIOUSOP | 2D         | 40        | 3     |
| CPLSRIOUSOP | 2D         | 20        | 3     |
| cplsrkept   | 2D         | 10        | 3     |
| cplsrkeptx  | 2D         | 08        | 3     |
| CPLSRNOP    | 0          |           | 2     |
| cplsrnum    | 30         |           | 2     |
| CPLSRSOP    | 0          |           | 1     |
| CPLSRTOP    | 2C         |           | 2     |
| cplsrwrs    | 2F         |           | 2     |
| CPLSSEQ     | 65         | 01        | 5     |
| CPLSSEQOP   | B4         |           | 6     |
| CPLSSWOP    | 0          |           | 2     |
| cplstch     | 12C        |           | 4     |
| cplstchd    | 12C        |           | 5     |
| cplstcht    | 130        |           | 5     |
| cplstepdep  | 16F        | 80        | 5     |
| cplStepSucc | 16F        | 40        | 5     |
| cplsuber    | 153        | 10        | 5     |
| CPLSUBOP    | EF         | 80        | 5     |
| cplsubtoken | 14B        |           | 5     |
| CPLSUCOP    | 0          |           | 1     |
| cplsyssfail | 114        | 02        | 5     |
| cplTaskType | 1AF        |           | 4     |
| CPLTJTOP    | EF         | 40        | 5     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPLTMPPOP     | FC         |           | 4     |
| cpltoken      | 11C        |           | 5     |
| cpltoken_full | 118        |           | 4     |
| cpltoken_pre  | 118        |           | 5     |
| cplTWSjbnm    | 15E        |           | 4     |
| cpltwsgjob    | 12B        |           | 4     |
| CPLTXTOP      | 36         |           | 4     |
| cplTZOFF      | 18E        |           | 4     |
| cplTZZONE     | 16E        | 04        | 5     |
| CPLudata      | 104        |           | 4     |
| cplUnexpRC    | 16F        | 04        | 5     |
| cplURGmsg     | 15C        | 01        | 5     |
| cplUserSYS    | 114        | 08        | 5     |
| CPLVAR03      | 1B4        |           | 2     |
| cplVdest      | 186        |           | 4     |
| CPLVERS3P     | 10         |           | 4     |
| cplWaitSE     | 15C        | 04        | 5     |
| cplWaitWQA    | 15C        | 02        | 5     |
| cplWASUJ      | 15C        | 08        | 5     |
| cplwlm        | 116        |           | 4     |
| cplWLMclass   | 170        |           | 4     |
| cplWLMmsg     | 16E        | 40        | 5     |
| cplWLMprom    | 16E        | 80        | 5     |
| CPLWRER       | F9         | 08        | 5     |
| CPLWSOP       | 5E         |           | 5     |
| CPLXSTOP      | DF         |           | 4     |
| cplzcentric   | 16F        | 20        | 5     |
| CPL2EVOP      | EF         | 08        | 5     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| cpl3pExtInfo | 0          |           | 1     |
| cpl3pEXTname | 0          |           | 2     |
| cpl3pSEname  | 36         |           | 2     |
| cpl3pSPLEX   | 16C        |           | 4     |

## CPLREC06 - Current plan remaining slack record

### Example

Name : DCLCPR06

Function:

This segment declares the remaining slack record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC06 record is structured as follows:

- 1 CPLREC06
- 2 common data
- 2 occurrence entries ( )

## Common data segment

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 0       | (0)  | STRUCTURE | 26  | CPLREC06   | REMAINING SLACK CHAIN REC  |
| 0       | (0)  | CHARACTER | 19  | CPLKEY06   |                            |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 06          |
| 2       | (2)  | SIGNED    | 2   | CPLSEQ06   | REM SLACK CHAIN REC NUMBER |
| 4       | (4)  | CHARACTER | 15  | CPLKF06    | FILLER, CONTAINS BLANKS    |
| 19      | (13) | CHARACTER | 7   | CPLBDY06   | BODY OF REM. SLACK RECORD  |
| 19      | (13) | CHARACTER | 4   | CPLYE06    | EYECATCHER                 |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS06  | VERSION NUMBER             |
| 24      | (18) | SIGNED    | 2   | CPL#OC06   | NUMBER OF ENTRIES IN REC   |
| 26      | (1A) | CHARACTER |     | CPLVAR06   | VARIABLE PART OF RECORD    |

## Occurrence entries segment

### Example

The value of CPL#OC06 in the common data segment describes the number of occurrence entries segments.

| Offsets           |     |           |     |              |                                                                        |
|-------------------|-----|-----------|-----|--------------|------------------------------------------------------------------------|
| Dec               | Hex | Type      | Len | Name (Dim)   | Description                                                            |
| 0                 | (0) | STRUCTURE | *   | CPLOCS06     | OCCURRENCE ENTRIES                                                     |
| 0                 | (0) | CHARACTER | 16  | CPLOCC06 (*) | OCCURRENCE ENTRY                                                       |
| 0                 | (0) | UNSIGNED  | 3   | CPLOCX06     | OCCURRENCE RECORD INDEX                                                |
| 3                 | (3) | SIGNED    | 2   | CPLNET06     | NETWORK ID                                                             |
| 5                 | (5) | CHARACTER | 1   | CPLSTA06     | OCCURRENCE STATUS BLANK =<br>NONCOMPLETED C = COMPLETED D =<br>DELETED |
| 3 CHAR(1), FILLER |     |           |     |              |                                                                        |
| 6                 | (6) | CHARACTER | 10  | CPLLO06      | EARLIEST LATEST STA IN OCC                                             |
| 6                 | (6) | CHARACTER | 6   | CPLLOD06     | DATE                                                                   |
| 12                | (C) | CHARACTER | 4   | CPLLOT06     | TIME                                                                   |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPL#OC06 | 18         |           | 3     |
| CPLBDY06 | 13         |           | 2     |
| CPLEYE06 | 13         |           | 3     |
| CPLKEY06 | 0          |           | 2     |
| CPLKF06  | 4          |           | 3     |
| CPLLOD06 | 6          |           | 4     |
| CPLLOT06 | C          |           | 4     |
| CPLLO06  | 6          |           | 3     |
| CPLNET06 | 3          |           | 3     |
| CPLOCC06 | 0          |           | 2     |
| CPLOCS06 | 0          |           | 1     |
| CPLOCX06 | 0          |           | 3     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLREC06  | 0          |           | 1     |
| CPLSEQ06  | 2          |           | 3     |
| CPLSTA06  | 5          |           | 3     |
| CPLVAR06  | 1A         |           | 3     |
| CPLVERS06 | 17         |           | 3     |

## CPLREC07 - Current plan undecided operation record

### Example

Name : DCLCPR07

Function:

This segment declares an undecided operation record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC07 record is structured as follows:

- 1 CPLREC07
- 2 common data
- 2 occurrence entries ( )

### Common data segment

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | *   | CPLREC07   | UNDECIDED OCC. RECORD     |
| 0       | (0)  | CHARACTER | 19  | CPLKEY07   |                           |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 07         |
| 2       | (2)  | SIGNED    | 2   | CPLSEQ07   | UNDECIDED OCC: REC NUMBER |
| 4       | (4)  | CHARACTER | 15  | CPLKF07    | FILLER CONTAINS BLANKS    |
| 19      | (13) | CHARACTER | *   | CPLBDY07   | BODY OF UNDECIDED REC     |
| 19      | (13) | CHARACTER | 4   | CPLEYE07   | EYECATCHER                |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS07  | VERSION NUMBER            |
| 24      | (18) | SIGNED    | 2   | CPL#OC07   | NUMBER OF ENTRIES IN REC  |
| 26      | (1A) | CHARACTER | *   | CPLVAR07   | VARIABLE PART OF RECORD   |

## Occurrence entries segment

### Example

The value of CPL#OC07 in the common data segment describes the number of occurrence entries segments.

| Offsets |      |           |     |              |                                                            |
|---------|------|-----------|-----|--------------|------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                |
| 0       | (0)  | STRUCTURE | *   | CPLOCS07     | OCCURRENCE ENTRIES                                         |
| 0       | (0)  | CHARACTER | 56  | CPLOCC07 (*) | OCCURRENCE ENTRY                                           |
| 0       | (0)  | CHARACTER | 16  | CPLAID07     | APPLICATION ID                                             |
| 16      | (10) | CHARACTER | 10  | CPLIA07      | INPUT ARRIVAL (FINAL)                                      |
| 16      | (10) | CHARACTER | 6   | CPLIAD07     | DATE                                                       |
| 22      | (16) | CHARACTER | 4   | CPLIAT07     | TIME                                                       |
| 26      | (1A) | CHARACTER | 24  | CPLJXT07     | DESCRIPTIVE TEXT                                           |
| 50      | (32) | UNSIGNED  | 3   | CPLOCX07     | OCCURRENCE RECORD INDEX                                    |
| 53      | (35) | SIGNED    | 2   | CPLNET07     | NETWORK ID                                                 |
| 55      | (37) | CHARACTER | 1   | CPLSTA07     | OCCURRENCE STATUS U = UNDECIDED<br>D = DELETED W = WAITING |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPL#OC07 | 18         |           | 3     |
| CPLAID07 | 0          |           | 3     |
| CPLBDY07 | 13         |           | 2     |
| CPLEYE07 | 13         |           | 3     |
| CPLIAD07 | 10         |           | 4     |
| CPLIAT07 | 16         |           | 4     |
| CPLIA07  | 10         |           | 3     |
| CPLJXT07 | 1A         |           | 3     |
| CPLKEY07 | 0          |           | 2     |
| CPLKF07  | 4          |           | 3     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLNET07  | 35         |           | 3     |
| CPLOCC07  | 0          |           | 2     |
| CPLOCS07  | 0          |           | 1     |
| CPLOCX07  | 32         |           | 3     |
| CPLREC07  | 0          |           | 1     |
| CPLSEQ07  | 2          |           | 3     |
| CPLSTA07  | 37         |           | 3     |
| CPLVAR07  | 1A         |           | 3     |
| CPLVERS07 | 17         |           | 3     |

## CPLREC08 - Current plan ended-in-error record

### Example

Name : DCLCPR08

Function:

This segment declares the ended-in-error record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC08 record is structured as follows:

- 1 CPLREC08
- 2 common data
- 2 ended-in-error entries ( )

## Common data segment

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE | *   | CPLREC08   | ENDED IN ERROR RECORD |
| 0       | (0) | CHARACTER | 19  | CPLKEY08   |                       |
| 0       | (0) | CHARACTER | 2   | *          | TYPE IS ALWAYS 08     |
| 2       | (2) | SIGNED    | 2   | CPLSEQ08   | ERROR RECORD NUMBER   |
| 4       | (4) | BITSTRING | 2   | CPLIND08   |                       |
|         |     |           |     | CPLARR08   | AUTO RECOVERY REQUEST |
|         |     |           |     | CPLARM08   | AUTO RECOVERY REQUEST |

| Offsets |      |           |     |            |                                 |
|---------|------|-----------|-----|------------|---------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                     |
|         |      |           |     | CPLNPP08   | ON: AUTO RECOVERY NOT POSTPONED |
| 19      | (13) | CHARACTER | *   | CPLBDY08   | BODY OF ERROR RECORD            |
| 19      | (13) | CHARACTER | 4   | CPLYE08    | EYECATCHER                      |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS08  | VERSION NUMBER                  |
| 24      | (18) | SIGNED    | 2   | CPL#OP08   | NUMBER OF ENTRIES IN REC        |
| 26      | (1A) | CHARACTER | *   | CPLVAR08   | VARIABLE PART OF RECORD         |

## Ended-in-error entry segment

### Example

The value of CPL#OC08 in the common data segment describes the number of ended-in-error entries segments.

| Offsets |     |           |     |              |                                                                      |
|---------|-----|-----------|-----|--------------|----------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                                                          |
| 0       | (0) | STRUCTURE | *   | CPLOPS08     | INDEXES TO OD RCDS IN ERROR                                          |
| 0       | (0) | CHARACTER | 6   | CPLENT08 (*) | ENDED-IN-ERROR ENTRY                                                 |
| 0       | (0) | CHARACTER | 4   | CPLOPX08     | INDEX TO OP RECORD                                                   |
| 0       | (0) | UNSIGNED  | 3   | CPLOCX08     | OCC NUMBER                                                           |
| 3       | (3) | UNSIGNED  | 1   | CPLOP#08     | OPERATION NUMBER A ZERO ENTRY MEANS<br>OP NOT ENDED IN ERROR ANYMORE |
| 4       | (4) | BITSTRING | 2   | CPLIND08     |                                                                      |
|         |     | 1... .... |     | CPLARR08     | AUTO RECOVERY REQUEST                                                |
|         |     | .1.. .... |     | CPLARM08     | AUTO RECOVERY REQUEST                                                |
| 4       | (4) | BITSTRING | 1   | *            | FOR FUTURE USE                                                       |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPL#OP08 | 18         |           | 3     |
| CPLARM08 | 4          | 40        | 4     |
| CPLARR08 | 4          | 80        | 4     |



| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLBDY08  | 13         |           | 2     |
| CPLENT08  | 0          |           | 2     |
| CPLEYE08  | 13         |           | 3     |
| CPLIND08  | 4          |           | 3     |
| CPLKEY08  | 0          |           | 2     |
| CPLKF08   | 4          |           | 3     |
| CPLNPP08  | 4          | 20        | 4     |
| CPLOCX08  | 0          |           | 4     |
| CPLOP#08  | 3          |           | 4     |
| CPLOPS08  | 0          |           | 1     |
| CPLOPX08  | 0          |           | 3     |
| CPLREC08  | 0          |           | 1     |
| CPLSEQ08  | 2          |           | 3     |
| CPLVAR08  | 1A         |           | 3     |
| CPLVERS08 | 17         |           | 3     |

## CPLREC09 - Current plan rerun record

### Example

Name : DCLCPR09

Function:

This segment declares the rerun operation record, physically located in EQQCPxDS and EQQNCPDS.

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 328 | CPLREC09   | RERUN OPERATION RECORD |
| 0       | (0) | CHARACTER | 12  | CPLKEY09   |                        |
| 0       | (0) | CHARACTER | 2   | *          | TYPE IS ALWAYS 09      |
| 2       | (2) | UNSIGNED  | 3   | CPLOCC09   | OCC NUMBER             |
| 5       | (5) | UNSIGNED  | 1   | CPLOP09    | OPERATION NUMBER       |
| 6       | (6) | SIGNED    | 2   | CPLRR#09   | RERUN NUMBER           |

| Offsets |     |           |     |            |               |
|---------|-----|-----------|-----|------------|---------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description   |
| 8       | (8) | CHARACTER | 4   | CPLKF09    | ALWAYS BLANKS |
| 12      | (C) | CHARACTER | 174 | CPLBDY09   | CP3P BOBY     |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPLBDY09 | C          |           | 2     |
| CPLKEY09 | 0          |           | 2     |
| CPLKF09  | 8          |           | 3     |
| CPLOCC09 | 2          |           | 3     |
| CPLOP09  | 5          |           | 3     |
| CPLREC09 | 0          |           | 1     |
| CPLRR#09 | 6          |           | 3     |

## CPLREC10 - Current plan workstation activity record

### Example

Name : DCLCPR10

Function:

This segment declares the workstation activity record, physically located in EQQCPxDS and EQQNCPS.

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 0       | (0)  | STRUCTURE | 216 | CPLREC10   | WS ACTIVITY RECORD      |
| 0       | (0)  | CHARACTER | 19  | CPLKEY10   |                         |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 10       |
| 2       | (2)  | CHARACTER | 4   | CPLWSN10   | WSID                    |
| 6       | (6)  | CHARACTER | 6   | CPLDAY10   | DATE                    |
| 12      | (C)  | CHARACTER | 7   | *          | SHOULD ALWAYS BE BLANKS |
| 19      | (13) | CHARACTER | 197 | CPLBDY10   | RECORD BODY             |

| Offsets |      |           |     |               |                                        |
|---------|------|-----------|-----|---------------|----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                            |
| 19      | (13) | CHARACTER | 4   | CPLEYE10      | EYECATCHER                             |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS10     | VERSION NUMBER                         |
| 24      | (18) | CHARACTER | 2   | CPL#OP10 (96) | NUMBER OF PARALLELL OPS PER 15 MINUTES |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPL#OP10  | 18         |           | 3     |
| CPLBDY10  | 13         |           | 2     |
| CPLDAY10  | 6          |           | 3     |
| CPLEYE10  | 13         |           | 3     |
| CPLKEY10  | 0          |           | 2     |
| CPLREC10  | 0          |           | 1     |
| CPLVERS10 | 17         |           | 3     |
| CPLWSN10  | 2          |           | 3     |

## CPLREC11 - Current plan ready list record

### Example

Name : DCLCPR11

Function:

This segment declares a ready list record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC11 record is structured as follows:

1 CPLREC11

2 common data

2 ready operation entries ( )

## Common data segment

| Offsets |     |           |     |            |                   |
|---------|-----|-----------|-----|------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description       |
| 0       | (0) | STRUCTURE | *   | CPLREC11   | READY LIST RECORD |

| Offsets |      |           |     |            |                                           |
|---------|------|-----------|-----|------------|-------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                               |
| 0       | (0)  | CHARACTER | 19  | CPLKEY11   |                                           |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 11                         |
| 2       | (2)  | CHARACTER | 2   | CPLLST11   | '01' FOR READY LIST '02' FOR WAITING LIST |
| 4       | (4)  | CHARACTER | 4   | CPLWSN11   | WS NAME                                   |
| 8       | (8)  | SIGNED    | 2   | CPLSEQ11   | SEQUENCE NUMBER                           |
| 10      | (A)  | CHARACTER | 9   | CPLKF11    | FILLER CONTAINS BLANKS                    |
| 19      | (13) | CHARACTER | *   | CPLBDY11   | READY LIST RECORD BODY                    |
| 19      | (13) | CHARACTER | 4   | CPLEYE11   | EYECATCHER                                |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS11  | VERSION NUMBER                            |
| 24      | (18) | SIGNED    | 2   | CPL#DO11   | NO OF ENTRIES                             |
| 26      | (1A) | CHARACTER | *   | CPLVAR11   | VARIABLE PART OF RECORD                   |

## Ready operation entries segment

### Example

The value of CPL#DO11 in the common data segment describes the number of ready operation entries segments.

| Offsets |     |           |     |              |                  |
|---------|-----|-----------|-----|--------------|------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description      |
| 0       | (0) | STRUCTURE | *   | CPLDOS11     | DOA ENTRIES      |
| 0       | (0) | CHARACTER | 4   | CPLDOA11 (*) | DOA ENTRY        |
| 0       | (0) | UNSIGNED  | 3   | CPLOCX11     | OCC NUMBER       |
| 3       | (3) | UNSIGNED  | 1   | CPLOPX11     | OPERATION NUMBER |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPL#DO11 | 18         |           | 3     |
| CPLBDY11 | 13         |           | 2     |
| CPLDOA11 | 0          |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLDOS11  | 0          |           | 1     |
| CPLEYE11  | 13         |           | 3     |
| CPLKEY11  | 0          |           | 2     |
| CPLKF11   | A          |           | 3     |
| CPLLST11  | 2          |           | 3     |
| CPLOCX11  | 0          |           | 3     |
| CPLOPX11  | 3          |           | 3     |
| CPLREC11  | 0          |           | 1     |
| CPLSEQ11  | 8          |           | 3     |
| CPLVAR11  | 1A         |           | 3     |
| CPLVERS11 | 17         |           | 3     |
| CPLWSN11  | 4          |           | 3     |

## CPLREC12 - Current plan potential predecessor record

### Example

Name : DCLCPR12

Function:

This segment declares a potential predecessor record, physically located in EQQCPxDS and EQQNCPS. Each record defines application names and operation numbers for operations that could become external successors to new occurrences added to the plan by MCP functions.

The CPLREC12 record is structured as follows:

- 1 CPLREC12
- 2 common data
- 2 potential predecessors ( )

### Common data segment

| Offsets |     |           |     |            |                              |
|---------|-----|-----------|-----|------------|------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                  |
| 0       | (0) | STRUCTURE | 32  | CPLREC12   | POTENTIAL PREDECESSOR RECORD |
| 0       | (0) | CHARACTER | 19  | CPLKEY12   |                              |
| 0       | (0) | CHARACTER | 2   | *          | RECORD TYPE IS ALWAYS 12     |

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 2       | (2)  | CHARACTER | 16  | CPLAPRE12  | APPLICATION NAME           |
| 18      | (12) | UNSIGNED  | 1   | CPLASEQ12  | SEQUENCE NUMBER            |
| 19      | (13) | CHARACTER | 13  | CPLBDY12   | BODY OF PREDECESSOR RECORD |
| 19      | (13) | CHARACTER | 4   | CPLYEY12   | EYECATCHER                 |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS12  | VERSION NUMBER             |
| 24      | (18) | SIGNED    | 2   | CPLNUM12   | NUMBER OF SUCC ENTRIES     |
| 26      | (1A) | BITSTRING | 1   | CPLFLAGS12 | CP12 FLAGS                 |
|         |      | 1... ..   |     | CPLCOND12  |                            |
|         |      | .1... ..  |     | *          | FREE                       |
| 27      | (1B) | CHARACTER | 5   | *          | FREE                       |
| 32      | (20) | CHARACTER |     | CPLVAR12   | START OF SUCCESSOR ENTRIES |

## Potential predecessor segment

### Example

The value of CPLNUM12 in the common data segment describes the number of potential predecessor segments.

| Offsets |      |           |     |            |                              |
|---------|------|-----------|-----|------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                  |
| 0       | (0)  | STRUCTURE | 24  | CPLENT12   | POTENTIAL SUCCESSOR ENTRY    |
| 0       | (0)  | SIGNED    | 2   | CPLPRE12   | PREDECESSOR OPERATION NUMBER |
| 2       | (2)  | SIGNED    | 2   | CPLSUC12   | SUCCESSOR OPERATION NUMBER   |
| 4       | (4)  | CHARACTER | 16  | CPLASUC12  | SUCCESSOR APPLICATION NAME   |
| 20      | (14) | BITSTRING | 1   | CPLFLG12   | WORK FLAGS                   |
|         |      | 1... ..   |     | CPLMAT12   | MATCH FOUND IN MCP ADD       |
|         |      | .1... ..  |     | *          | FREE                         |
| 21      | (15) | CHARACTER | 3   | *          | FREE                         |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLAPRE12  | 2          |           | 3     |
| CPLASUC12  | 4          |           | 2     |
| CPLBDY12   | 13         |           | 2     |
| CPLCOND12  | 1A         | 80        | 4     |
| CPLENT12   | 0          |           | 1     |
| CPLEYE12   | 13         |           | 3     |
| CPLFLAGS12 | 1A         |           | 3     |
| CPLFLG12   | 14         |           | 2     |
| CPLKEY12   | 0          |           | 2     |
| CPLMAT12   | 14         | 80        | 3     |
| CPLNUM12   | 18         |           | 3     |
| CPLPRE12   | 0          |           | 2     |
| CPLREC12   | 0          |           | 1     |
| CPLSUC12   | 2          |           | 2     |
| CPLVAR12   | 20         |           | 3     |
| CPLVERS12  | 17         |           | 3     |

## CPLREC14 - Current plan job log staging and status record

### Example

Name : DCLCPR14

Function:

This segment declares a job log staging and status record, physically located in eqqcpdxs and eqqncpds.

The CPLREC14 record is structured as follows:

- 1 CPLREC14
- 2 common data
- 2 message line entries ( )

## Common data segment

| Offsets |      |           |     |             |                                                                              |
|---------|------|-----------|-----|-------------|------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                                  |
| 0       | (0)  | STRUCTURE | 111 | CPLREC14    | SYSOUT FORM JOBLLOG                                                          |
| 0       | (0)  | CHARACTER | 8   | CPL14KEY    | KEY OF RECORD                                                                |
| 0       | (0)  | CHARACTER | 2   | CPLTYP14    | RECORD TYPE (14)                                                             |
| 2       | (2)  | UNSIGNED  | 3   | CPLOCC14    | OCC NUMBER IN CP                                                             |
| 5       | (5)  | UNSIGNED  | 1   | CPLOPR14    | OPERATION NUMBER                                                             |
| 6       | (6)  | SIGNED    | 2   | CPLSEQ14    | SEQUENCE NUMBER, 1ST = 0001                                                  |
| 8       | (8)  | CHARACTER | 81  | CPL14BDY    |                                                                              |
| 8       | (8)  | CHARACTER | 12  | *           |                                                                              |
| 20      | (14) | CHARACTER | 4   | CPL14EYE    | EYE CATCHER                                                                  |
| 24      | (18) | CHARACTER | 4   | CPL14WSN    | WORK STATION NAME                                                            |
| 28      | (1C) | CHARACTER | 8   | CPL14JNM    | JOB NAME                                                                     |
| 36      | (24) | CHARACTER | 8   | CPL14JID    | JOB ID                                                                       |
| 44      | (2C) | ADDRESS   | 4   | CPLTOTSZ    | TOTAL SIZE OF RECORD , BEFORE SPLIT INTO TWO OR MORE, AND BEFORE COMPRESSION |
| 48      | (30) | SIGNED    | 4   | CPLSIZ14    | SIZE OF RECORD WHEN IN CP                                                    |
| 48      | (30) | SIGNED    | 4   | CPL14CSZ    | COMPRESSED SIZE (INCL HEADER)                                                |
| 52      | (34) | SIGNED    | 4   | CPLLO14     | OFFSET TO LAST MESSAGE LINE                                                  |
| 56      | (38) | SIGNED    | 4   | CPL#LINE    | NUMBER OF JOBLLOG RECORDS                                                    |
| 60      | (3C) | CHARACTER | 16  | CPL14ADID   | APPLICATION ID                                                               |
| 76      | (4C) | CHARACTER | 10  | CPL14IA     | INPUT ARRIVAL YYMMDDHHMM                                                     |
| 76      | (4C) | CHARACTER | 6   | CPL14IAD    | IA DATE                                                                      |
| 82      | (52) | CHARACTER | 4   | CPL14IAT    | IA TIME                                                                      |
| 86      | (56) | CHARACTER | 1   | CPL14OCLASS | ORIG MSG CLASS                                                               |
| 87      | (57) | CHARACTER | 1   | CPL14SYST   | A=JES2, B=JES3 4=AS400 U=UNIX™<br>X=AIX® O=OS/2®                             |
| 88      | (58) | CHARACTER | 1   | CPL14FLAGS  | FLAGS                                                                        |



| Offsets |      |           |     |             |                                                                       |
|---------|------|-----------|-----|-------------|-----------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                           |
|         |      | 1... ..   |     | CPL14NCMP   | 1= JOBLOG NOT COMPLETE                                                |
|         |      | .1... ..  |     | CPL14HEAD   | 1= FIXED PART OF RECORD HAS BEEN PASSED TO CONTR.                     |
|         |      | ..1. .... |     | CPL14COMP   | 1= JOBLOG IS IN COMPRESSED FORMAT (CSRCESTRV COMPR.)                  |
|         |      | ...1 .... |     | CPL14NOLOG  | 1= NO JOBLOG FOUND                                                    |
|         |      | .... 1... |     | CPL14R3     | 1= R3 OR LATER                                                        |
|         |      | .... .1.. |     | CPL14DELRQ  | 1= DELAYED RETRIEVAL REQ                                              |
|         |      | .... ..1. |     | CPL14ARC    | ARCH JOB LOG RETRIEVAL                                                |
|         |      | .... ...1 |     | CPL14NOSTR  | 1=DO NOT ASK JLOGSTRU 0=ASK JLOGSTRU                                  |
| 89      | (59) | UNSIGNED  | 1   | CPL14FSTEP  | ENDED-IN-ERROR STEP NO                                                |
| 90      | (5A) | CHARACTER | 1   | CPL14VERS   | CB VERSION                                                            |
| 91      | (5B) | CHARACTER | 5   | CPL14STATUS | STATUS OF JOBLOG                                                      |
| 91      | (5B) | CHARACTER | 1   | CPL14ST     | ARCHIVING STATUS A = ARCHIVED IN CONTROLLER R = WAITING FOR RETRIEVAL |
| 92      | (5C) | CHARACTER | 4   | CPL14MVSID  | SMF TRACKER MVS™ ID                                                   |
| 96      | (60) | SIGNED    | 4   | CPL14SLO    | OFFSET TO STEP LIST IN REC                                            |
| 100     | (64) | CHARACTER | 3   | CPL14JR     | LAST 3 NUMBERS OF JES REL                                             |
| 103     | (67) | CHARACTER | 4   | CPL14JRD    | JES READER DATE IN BINARY (COPY OF 3P EXRDATE)                        |
| 107     | (6B) | CHARACTER | 4   | CPL14JRT    | JES READER TIME IN BINARY (COPY OF 3P EXRDATE)                        |
| 111     | (6F) | CHARACTER |     | CPLDATA14   | DATA PORTION                                                          |

## Message line entry segment

### Example

The value of CPL#LINE in the common data segment describes the number of message line entries segments.

| Offsets |     |           |     |             |                                               |
|---------|-----|-----------|-----|-------------|-----------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                                   |
| 0       | (0) | STRUCTURE | *   | CPLSYSOUT14 |                                               |
| 0       | (0) | SIGNED    | 4   | CPLMSG14L   | LENGTH OF SYSOUT MESSAGE LINE                 |
| 4       | (4) | CHARACTER | 2   | CPLMSGFLG   | FLAGS                                         |
| 4       | (4) | CHARACTER | 1   | CPLTYPE14   | LINTYPE<br>J = JOBLOG<br>'BLANK' = USERSYSOUT |
| 5       | (5) | CHARACTER | 1   | *           | RESERVED                                      |
| 6       | (6) | SIGNED    | 2   | CPLMSG14NO  | OFFSET TO NEXT MESSAGE                        |
| 8       | (8) | CHARACTER | *   | CPLMSG14    | MESSAGE                                       |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPL#LINE    | 38         |           | 3     |
| CPLDATA14   | 6F         |           | 2     |
| CPLLO14     | 34         |           | 3     |
| CPLTYPE14   | 4          |           | 3     |
| CPLMSGFLG   | 4          |           | 2     |
| CPLMSG14    | 8          |           | 2     |
| CPLMSG14L   | 0          |           | 2     |
| CPLMSG14NO  | 6          |           | 2     |
| CPLOCC14    | 2          |           | 3     |
| CPLOPR14    | 5          |           | 3     |
| CPLREC14    | 0          |           | 1     |
| CPLSEQ14    | 6          |           | 3     |
| CPLSIZ14    | 30         |           | 3     |
| CPLSYSOUT14 | 0          |           | 1     |
| CPLTOTSZ    | 2C         |           | 3     |
| CPLTYP14    | 0          |           | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPL14ADID   | 3C         |           | 3     |
| CPL14ARC    | 58         | 02        | 4     |
| CPL14BDY    | 8          |           | 2     |
| CPL14COMP   | 58         | 20        | 4     |
| CPL14CSZ    | 30         |           | 4     |
| CPL14DELRQ  | 58         | 04        | 4     |
| CPL14EYE    | 14         |           | 3     |
| CPL14FLAGS  | 58         |           | 3     |
| CPL14FSTEP  | 59         |           | 2     |
| CPL14HEAD   | 58         | 40        | 4     |
| CPL14IA     | 4C         |           | 3     |
| CPL14IAD    | 4C         |           | 4     |
| CPL14IAT    | 52         |           | 4     |
| CPL14JID    | 24         |           | 3     |
| CPL14JNM    | 1C         |           | 3     |
| CPL14JR     | 64         |           | 2     |
| CPL14JRD    | 67         |           | 2     |
| CPL14JRT    | 6B         |           | 2     |
| CPL14KEY    | 0          |           | 2     |
| CPL14MVSID  | 5C         |           | 3     |
| CPL14NCMP   | 58         | 80        | 4     |
| CPL14NOLOG  | 58         | 10        | 4     |
| CPL14NOSTR  | 58         | 01        | 4     |
| CPL14OCLASS | 56         |           | 3     |
| CPL14R3     | 58         | 08        | 4     |
| CPL14SLO    | 60         |           | 2     |
| CPL14ST     | 5B         |           | 3     |
| CPL14STATUS | 5B         |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPL14SYST | 57         |           | 3     |
| CPL14VERS | 5A         |           | 2     |
| CPL14WSN  | 18         |           | 3     |

## CPLREC15 - Stand-alone clean up record

### Example

Name : DCLCPR15

Function:

This segment declares the stand-alone clean up record.

| Offsets |      |           |     |            |                                        |
|---------|------|-----------|-----|------------|----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                            |
| 0       | (0)  | STRUCTURE | 70  | CPLREC15   | STAND-ALONE CLEAN UP                   |
| 0       | (0)  | CHARACTER | 18  | CPL15KEY   | KEY OF RECORD                          |
| 0       | (0)  | CHARACTER | 2   | CPL15TYP   | RECORD TYPE (15)                       |
| 2       | (2)  | CHARACTER | 8   | CPL15JNM   | JOB NAME                               |
| 10      | (A)  | CHARACTER | 8   | CPL15JID   | JOB ID                                 |
| 20      | (14) | CHARACTER | 50  | CPL15BDY   | BODY OF RECORD                         |
| 20      | (14) | CHARACTER | 6   | *          | RESERVED                               |
| 26      | (1A) | CHARACTER | 4   | CPL15EYE   | EYE CATCHER=CP15                       |
| 30      | (1E) | CHARACTER | 1   | CPL15VER   | VERSION                                |
| 31      | (1F) | CHARACTER | 1   | CPL15STAT  | CPL15 STATUS                           |
| 32      | (20) | SIGNED    | 2   | CPL15RETRY | ASK OPINFO RETRY COUNTER               |
| 34      | (22) | CHARACTER | 4   | CPL15JRD   | JES READER DATE IN BINARY              |
| 38      | (26) | CHARACTER | 4   | CPL15JRT   | JES READER TIME IN BINARY              |
| 42      | (2A) | CHARACTER | 8   | CPL15TOK   | OCC TOKEN                              |
| 50      | (32) | UNSIGNED  | 1   | CPL15OPR   | OPERATION NUMBER                       |
| 51      | (33) | CHARACTER | 3   | *          | RESERVED                               |
| 54      | (36) | CHARACTER | 8   | CPL15DEST  | CLEAN UP JOBLOG DESTINATION SET BY K3P |
| 62      | (3E) | CHARACTER | 4   | CPL15CODE  | CLEAN UP JOB ERROR CODE                |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 66      | (42) | CHARACTER | 24  | *          | FREE        |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLREC15   | 0          |           | 1     |
| CPL15BDY   | 14         |           | 2     |
| CPL15CODE  | 3E         |           | 3     |
| CPL15DEST  | 36         |           | 3     |
| CPL15EYE   | 1A         |           | 3     |
| CPL15JID   | A          |           | 3     |
| CPL15JNM   | 2          |           | 3     |
| CPL15JRD   | 22         |           | 3     |
| CPL15JRT   | 26         |           | 3     |
| CPL15KEY   | 0          |           | 2     |
| CPL15OPR   | 32         |           | 3     |
| CPL15RETRY | 20         |           | 3     |
| CPL15STAT  | 1F         |           | 3     |
| CPL15TOK   | 2A         |           | 3     |
| CPL15TYP   | 0          |           | 3     |
| CPL15VER   | 1E         |           | 3     |

## CPLREC16 - Restart and clean up operinfo for deletion

### Example

Name : DCLCPR16

Function:

This segment declares the restart and clean up operation information to be deleted (created by DP batch processing).

The CPLREC16 record is structured as follows:

- 1 CPLREC16
- 2 common data
- 2 occurrence entries ( )

## Common data segment

| Offsets |      |           |     |            |                                  |
|---------|------|-----------|-----|------------|----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                      |
| 0       | (0)  | STRUCTURE | *   | CPLREC16   |                                  |
| 0       | (0)  | CHARACTER | 19  | CPL16KEY   | KEY OF RECORD                    |
| 0       | (0)  | CHARACTER | 2   | CPL16TYP   | RECORD TYPE (16)                 |
| 2       | (2)  | SIGNED    | 2   | CPL16SEQ   | SEQUENCE NUMBER                  |
| 4       | (4)  | CHARACTER | 15  | *          | RESERVED                         |
| 19      | (13) | CHARACTER | *   | CPL15BDY   | BODY OF RECORD                   |
| 19      | (13) | CHARACTER | 4   | CPL16EYE   | EYE CATCHER=CP16                 |
| 23      | (17) | CHARACTER | 1   | CPL16VER   | VERSION                          |
| 24      | (18) | CHARACTER | 1   | *          | FREE                             |
| 26      | (1A) | SIGNED    | 2   | CPL16TOT   | NUMBER OF ENTRIES IN THIS RECORD |
| 28      | (1C) | CHARACTER | 8   | CPL16TOD   | CP16 ID (TOD)                    |
| 36      | (24) | CHARACTER | 8   | *          | FREE                             |
| 44      | (2C) | CHARACTER | *   | CPL16VAR   |                                  |

## Occurrence entry segment

### Example

The value of CPL16TOT in the common data segment describes the number of occurrence entries segments.

| Offsets |     |           |     |             |                  |
|---------|-----|-----------|-----|-------------|------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description      |
| 0       | (0) | STRUCTURE | *   | CPL16TAB    |                  |
| 0       | (0) | CHARACTER | 8   | CPL16ENT(*) |                  |
| 0       | (0) | CHARACTER | 8   | CPL16OCC    | OCCURRENCE TOKEN |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPLREC16 | 0          |           | 1     |
| CPL16BDY | 13         |           | 2     |
| CPL16ENT | 0          |           | 2     |
| CPL16EYE | 13         |           | 3     |
| CPL16KEY | 0          |           | 2     |
| CPL16OCC | 0          |           | 3     |
| CPL16SEQ | 2          |           | 3     |
| CPL16TAB | 0          |           | 1     |
| CPL16TOD | 1C         |           | 3     |
| CPL16TOT | 1A         |           | 3     |
| CPL16TYP | 0          |           | 3     |
| CPL16VAR | 2C         |           | 3     |
| CPL16VER | 17         |           | 3     |

## CPLREC20 - Workstation activity record for virtual workstation

### Example

Name : DCLCPR20

Function:

For each actual destination associated to a virtual workstation, defines the same kind of information as DCLCPR10.

### Example

| Offsets | Type          | Length | Name     | Description        |
|---------|---------------|--------|----------|--------------------|
| 0       | (0) STRUCTURE | 798    | CPLREC20 | WS ACTIVITY RECORD |
| 0       | (0) CHARACTER | 19     | CPLKEY20 |                    |

|    |                |     |              |                                                 |
|----|----------------|-----|--------------|-------------------------------------------------|
| 0  | (0) CHARACTER  | 2   | CPLK20       | '20'                                            |
| 2  | (2) CHARACTER  | 4   | CPLWSN20     | WS NAME                                         |
| 6  | (6) CHARACTER  | 1   | CPLWSTYP     | WS TYPE: '0' ==> NORMAL (FUTURE USE)            |
|    |                |     |              | '1' ==> VIRTUAL                                 |
|    |                |     |              | '2' ==> VIRTUAL DEST                            |
| 7  | (7) CHARACTER  | 8   | CPLDEST20    | WS DESTINATION                                  |
| 15 | (F) CHARACTER  | 4   | CPLDATE20    | DATE                                            |
| 15 | (F) CHARACTER  | 2   | CPLY20       | YEAR: 'YY'                                      |
| 17 | (11) UNSIGNED  | 2   | CPLJUL20     | JULIAN DAY: NNN                                 |
| 19 | (13) CHARACTER | 779 | CPLBDY20     | RECORD BODY                                     |
| 19 | (13) CHARACTER | 4   | CPLYE20      | EYE CATCHER                                     |
| 23 | (17) UNSIGNED  | 1   | CPLVERS20    | VERSION NUMBER                                  |
| 24 | (18) CHARACTER | 6   | CPLDAY20     | DATE: YYMMDD                                    |
| 30 | (1E) CHARACTER | 8   | CPL#OP20(96) | NUMBER OF PARALLEL<br>OPERATIONS PER 15 MINUTES |

## Cross reference

### Example

| HEX       | HEX | OFFSET | VALUE | LEVEL |
|-----------|-----|--------|-------|-------|
| NAME      |     | -----  | ----- | ----  |
| ----      |     |        |       |       |
| CPL#OP20  |     | 1E     |       | 3     |
| CPLBDY20  |     | 13     |       | 2     |
| CPLDATE20 |     | F      |       | 3     |
| CPLDAY20  |     | 18     |       | 3     |
| CPLDEST20 |     | 7      |       | 3     |
| CPLYE20   |     | 13     |       | 3     |
| CPLJUL20  |     | 11     |       | 4     |
| CPLKEY20  |     | 0      |       | 2     |
| CPLK20    |     | 0      |       | 3     |
| CPLREC20  |     | 0      |       | 1     |
| CPLVERS20 |     | 17     |       | 3     |
| CPLWSN20  |     | 2      |       | 3     |
| CPLWSTYP  |     | 6      |       | 3     |
| CPLY20    |     | F      |       | 4     |

## CPLREC21 - Current plan user-defined late index record

### Example

Name : DCLCPR21

Function:

This segment declares the user-defined late info index record, physically located in  
EQQCPxDS and EQQNCPDS.

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE | *   | CPLREC21   | user def. times index |
| 0       | (0) | CHARACTER | 19  | CPLKEY21   |                       |



| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 0       | (0)  | CHARACTER | 2   | CPLTY21    | TYPE IS ALWAYS 21       |
| 2       | (2)  | CHARACTER | 15  | CPLKFI21   | filler blank            |
| 19      | (13) | CHARACTER | *   | CPLBDY21   | record body             |
| 19      | (13) | CHARACTER | 4   | CPEYE21    | eye catcher CP21        |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS21  | version number 01       |
| 24      | (18) | SIGNED    | 2   | CPL#ENT21  | no. of entries          |
| 26      | (1A) | CHARACTER | *   | CPLVAR21   | variable part of record |

## USER-DEFINED TIMES OPERATION ENTRIES SEGMENT

| Offsets |     |           |     |              |                        |
|---------|-----|-----------|-----|--------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description            |
| 0       | (0) | STRUCTURE | *   | CPLENT21     | operation entries      |
| 0       | (0) | CHARACTER | 4   | CPLOPR21 (*) | operation entry        |
| 0       | (0) | UNSIGNED  | 3   | CPLOCX11     | occ number             |
| 3       | (3) | UNSIGNED  | 1   | CPLOPX11     | operation number       |
| 4       | (4) | CHARACTER | 1   | CPLSTX21     | operation status       |
| 5       | (5) | BITSTRING | 1   | CPLFLX21     | flags                  |
|         |     | 1... ..   |     | CPLDLA21     | on: deadline action    |
|         |     | .1... ..  |     | CPLLA121     | on: not started alert  |
|         |     | ..1. .... |     | CPLLA221     | on: not started action |
| 6       | (6) | CHARACTER | 2   | *            | free                   |

## CPLREC22 - Current plan virtual workstation record

## Example

Name : DCLCPR22

Function:

This segment declares a current plan workstation record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC22 record is structured as follows:

- 1 CPLREC22
- 2 common data
- 2 open time interval ( )
- 2 access method ( )

For each actual destination associated to a virtual workstation, defines the same kind of information as DCLCPR02.

## Common data segment

### Example

| Offsets | Type           | Length | Name       | Description                       |
|---------|----------------|--------|------------|-----------------------------------|
| 0       | (0) STRUCTURE  | *      | CPLREC22   | CURRENT PLAN WS RECORD            |
| 0       | (0) CHARACTER  | 236    | CPLCOM22   |                                   |
| 0       | (0) CHARACTER  | 19     | CPLKEY22   |                                   |
| 0       | (0) CHARACTER  | 2      | CPLKID22   | TYPE IS ALWAYS 22                 |
| 2       | (2) CHARACTER  | 4      | CPLWSN22   | WORKSTATION NAME                  |
| 6       | (6) CHARACTER  | 8      | CPLDST22   | DESTINATION NAME                  |
| 14      | (E) CHARACTER  | 5      | CPLKF22    | SHOULD CONTAIN BLANKS             |
| 19      | (13) CHARACTER | 217    | CPLBDY22   | WS RECORD BODY                    |
| 19      | (13) CHARACTER | 4      | CPLEYE22   | EYECATCHER                        |
| 23      | (17) UNSIGNED  | 1      | CPLVERS22  | VERSION NUMBER                    |
| 24      | (18) CHARACTER | 32     | CPLDESCR22 | WS DESCRIPTION                    |
| 56      | (38) CHARACTER | 12     | CPLSUMC    | SUM OF COMPLETED OPERATIONS       |
| 56      | (38) SIGNED    | 4      | CPLSUMC#   | NOT USED                          |
| 60      | (3C) SIGNED    | 4      | CPLSUMCE   | NOT USED                          |
| 64      | (40) SIGNED    | 4      | CPLSUMCR   | NOT USED                          |
| 68      | (44) CHARACTER | 12     | CPLSUMI    | SUM OF INTERRUPTED OPERATIONS     |
| 68      | (44) SIGNED    | 4      | CPLSUMI#   | NOT USED                          |
| 72      | (48) SIGNED    | 4      | CPLSUMIE   | NOT USED                          |
| 76      | (4C) SIGNED    | 4      | CPLSUMIR   | NOT USED                          |
| 80      | (50) CHARACTER | 8      | CPLSUMS    | SUM OF STARTED OPERATIONS         |
| 80      | (50) SIGNED    | 4      | CPLSUMS#   | NUMBER                            |
| 84      | (54) SIGNED    | 4      | CPLSUMSE   | ESTIMATED DURATION                |
| 88      | (58) CHARACTER | 8      | CPLSUMR    | SUM OF 'READY' OPERATIONS (R,A,*) |
| 88      | (58) SIGNED    | 4      | CPLSUMR#   | NOT USED                          |
| 92      | (5C) SIGNED    | 4      | CPLSUMRE   | NOT USED                          |
| 96      | (60) CHARACTER | 8      | CPLSUMW    | SUM OF WAITING OPERATIONS         |
| 96      | (60) SIGNED    | 4      | CPLSUMW#   | NOT USED                          |
| 100     | (64) SIGNED    | 4      | CPLSUMWE   | NOT USED                          |
| 104     | (68) SIGNED    | 4      | CPLSUMA    | NOT USED                          |
| 108     | (6C) SIGNED    | 4      | CPLSUMNRR  | NOT USED                          |
| 112     | (70) SIGNED    | 4      | CPLSUMU    | NOT USED                          |
| 116     | (74) SIGNED    | 4      | CPLSUME    | NOT USED                          |
| 120     | (78) SIGNED    | 4      | CPLSUML    | NOT USED                          |
| 124     | (7C) CHARACTER | 8      | CPLCREVT   |                                   |
| 124     | (7C) SIGNED    | 4      | CPLDATE    | DATE FORMAT (00YYDDDF)            |

|     |      |           |   |              |                                                                    |
|-----|------|-----------|---|--------------|--------------------------------------------------------------------|
| 128 | (80) | SIGNED    | 4 | CPLTIME      | TIME FORMAT (SECS*100)                                             |
| 132 | (84) | SIGNED    | 4 | CPLSUMX      | SUM OF DUMMY COMPL OPERATIONS                                      |
| 136 | (88) | SIGNED    | 4 | *(2)         |                                                                    |
| 144 | (90) | CHARACTER | 1 | CPLWSTYP     | COPIED FROM OWNING CP02                                            |
| 145 | (91) | CHARACTER | 1 | CPLWSREP     | COPIED FROM OWNING CP02                                            |
| 146 | (92) | CHARACTER | 2 | CPLWSR1N     | RESOURCE NAME                                                      |
| 148 | (94) | UNSIGNED  | 2 | CPLWSR1IU#   | NUMBER IN USE (PARALLEL SERVERS IN USE<br>= NO. STARTED OPERATIONS |
| 150 | (96) | CHARACTER | 2 | CPLWSR1FLG   | RESOURCE INDICATORS                                                |
|     |      | 1... ..   |   | CPLWSR1C     | RESOURCE USED AT CONTROL                                           |
|     |      | .1... ..  | * |              | FREE                                                               |
|     |      | ..1. .... |   | CPLWSWAIT    | COPIED FROM OWNING CP02                                            |
|     |      | ...1 .... |   | CPLWSVIRT    | COPIED FROM OWNING CP02                                            |
|     |      | .... 1... |   | CPLWSZCAGENT | COPIED FROM OWNING CP02                                            |
| 150 | (96) | BITSTRING | 1 | *            | FREE                                                               |
|     |      | .... .1.. |   | CPLWSZNOINFO | ZCENTRIC NO INFO AVAIL                                             |
|     |      | .... ..1. |   | CPLWSDYN     | DYNAMIC WORKSTATION                                                |
| 150 | (96) | BITSTRING | 1 | *            | FREE                                                               |
| 152 | (98) | CHARACTER | 2 | CPLWSR2N     | RESOURCE NAME                                                      |
| 154 | (9A) | UNSIGNED  | 2 | CPLWSR2IU#   | NUMBER IN USE                                                      |
| 156 | (9C) | CHARACTER | 2 | CPLWSR2FLG   | RESOURCE INDICATORS                                                |
|     |      | 1... ..   |   | CPLWSR2C     | RESOURCE USED AT CONTROL                                           |
|     |      | .1... ..  |   | CPLWSSTAT    | WSSTAT GENERATED STATUS                                            |
|     |      | ..1. .... |   | CPLUX009     | UX009 GENERATED STATUS                                             |
| 156 | (9C) | BITSTRING | 1 | *            | RESERVED                                                           |
| 158 | (9E) | CHARACTER | 1 | CPLRLTYP     | READY LIST TYPE                                                    |
| 159 | (9F) | CHARACTER | 1 | CPLFLG02     | FLAG BITS                                                          |
|     |      | 1... ..   |   | CPLPREP      | COPIED FROM OWNING CP02                                            |
|     |      | .1... ..  |   | CPLIVLNU     | IVL NOT USED AT ALL                                                |
|     |      | ..1. .... |   | CPLIVLNP     | NO PARALLEL SERVERS                                                |
|     |      | ...1 .... |   | CPLSTC       | COPIED FROM OWNING CP02                                            |
|     |      | .... 1... |   | CPLWTO       | COPIED FROM OWNING CP02                                            |
|     |      | .... .1.. |   | CPOFF_PEND   | WS IS PENDING OFFLINE                                              |
|     |      | .... ..1. |   | CPLRTR_PEND  | T EVENT PENDING                                                    |
|     |      | .... ...1 |   | CPLAWS_VARY  | VARIED AWS SET                                                     |
| 160 | (A0) | CHARACTER | 8 | CPLPREV      |                                                                    |
| 160 | (A0) | CHARACTER | 4 | CPLPREDT     | DATE IN TIME MACRO FORM                                            |
| 164 | (A4) | CHARACTER | 4 | CPLPRETM     | TIME IN TIME MACRO FORM                                            |
| 168 | (A8) | CHARACTER | 8 | CPLSUDS      | NOT USED                                                           |
| 176 | (B0) | SIGNED    | 2 | CPLIVL22#I   | NUMBER OF OPEN INTERVLS                                            |
| 178 | (B2) | SIGNED    | 2 | CPLMAX15     | NOT USED                                                           |
| 180 | (B4) | CHARACTER | 1 | CPLWSSTA     | USED BY DIALOG                                                     |
| 181 | (B5) | CHARACTER | 1 | CPLCWS_STAT  | WORK STATION STATUS                                                |
| 182 | (B6) | SIGNED    | 2 | CPLTRT02     | NOT USED                                                           |
| 184 | (B8) | CHARACTER | 8 | CPLCOFF02    | OFFLINE TIME STAMP                                                 |
| 184 | (B8) | CHARACTER | 4 | CPLCOFF_DATE | OFFLINE DATE                                                       |
| 188 | (BC) | CHARACTER | 4 | CPLCOFF_TIME | OFFLINE TIME                                                       |
| 192 | (C0) | CHARACTER | 4 | CPLCAWS02    | NOT USED                                                           |
| 196 | (C4) | UNSIGNED  | 2 | CPLSEQ#02    | CURRENT SUBMIT SEQUENCE                                            |
| 198 | (C6) | UNSIGNED  | 1 | CPLRSEQ#02   | CURRENT REQUEST SEQUENC                                            |
| 199 | (C7) | UNSIGNED  | 1 | CPLSUMCES    | NOT USED                                                           |
| 200 | (C8) | UNSIGNED  | 1 | CPLSUMCRS    | NOT USED                                                           |
| 201 | (C9) | UNSIGNED  | 1 | CPLSUMIES    | NOT USED                                                           |
| 202 | (CA) | UNSIGNED  | 1 | CPLSUMIRS    | NOT USED                                                           |
| 203 | (CB) | UNSIGNED  | 1 | CPLSUMSES    |                                                                    |
| 204 | (CC) | UNSIGNED  | 1 | CPLSUMRES    | NOT USED                                                           |
| 205 | (CD) | UNSIGNED  | 1 | CPLSUMWES    | NOT USED                                                           |
| 206 | (CE) | CHARACTER | 1 | CPLWSTWS     | NOT USED                                                           |

|     |      |           |    |            |                         |
|-----|------|-----------|----|------------|-------------------------|
| 207 | (CF) | CHARACTER | 1  | CPLLNK02   | NOT USED                |
| 208 | (D0) | CHARACTER | 1  | CPLFLGTWS  | NOT USED                |
|     |      | 1... ..   |    | CPLLNKVA   | NOT USED                |
|     |      | .1.. .... |    | CPLSTAVA   | NOT USED                |
|     |      | ..1. .... |    | CPLLNKDW   | NOT USED                |
|     |      | ...1 .... |    | CPLWRTST   | NOT USED                |
|     |      | .... 1..  |    | CPLCMDLNK  | NOT USED                |
|     |      | .... .1.. |    | CPLCMDSTA  | NOT USED                |
|     |      | .... ..1. |    | CPLFULLNK  | NOT USED                |
| 209 | (D1) | CHARACTER | 1  | CPLAUTO    | ALWAYS N                |
| 210 | (D2) | SIGNED    | 2  | CPLACCM22# | ALWAYS 0 NOT USED       |
| 212 | (D4) | SIGNED    | 2  | CPLLIMIT   | CPU LIMIT VALUE         |
| 214 | (D6) | CHARACTER | 1  | *          | FREE                    |
| 215 | (D7) | CHARACTER | 1  | CPLRENGT   | REMOTE ENGINE TYPE      |
| 216 | (D8) | SIGNED    | 4  | CPLVMAX15  | MAC NO EVENTS IN 15 MIN |
| 220 | (DC) | SIGNED    | 2  | CPLEOPT22# | NOT USED                |
| 222 | (DE) | CHARACTER | 14 | *          | FREE                    |
| 236 | (EC) | CHARACTER | *  | CPLWSVAR22 | VARIABLE LENGTH SECTION |

## Open time interval segment

### Example

The value of CPLIVL22#I in the common data segment describes the number of open time interval segments that follow the common data.

### Example

| Offsets | Type  | Length    | Name | Description                             |
|---------|-------|-----------|------|-----------------------------------------|
| 236     | (EC)  | STRUCTURE | 48   | CPLIVLOI22 (*)                          |
| 236     | (EC)  | CHARACTER | 10   | CPLIVLFR INTERVAL START                 |
| 236     | (EC)  | CHARACTER | 6    | CPLIVLFD DATE YYMMDD                    |
| 242     | (F2)  | CHARACTER | 4    | CPLIVLFT TIME HHMM                      |
| 246     | (F6)  | CHARACTER | 10   | CPLIVLTO INTERVAL END                   |
| 246     | (F6)  | CHARACTER | 6    | CPLIVLTD DATE YYMMDD                    |
| 252     | (FC)  | CHARACTER | 4    | CPLIVLTT TIME HHMM                      |
| 256     | (100) | UNSIGNED  | 2    | CPLIVL#PS MAX PARALLEL SERVERS          |
| 258     | (102) | UNSIGNED  | 2    | CPLIVL#DPPS SAME, SET AT DAILY PLANNING |
| 260     | (104) | BITSTRING | 1    | CPLIVLF2 FLAGS                          |
|         |       | 1... ..   |      | CPLIVLMC IVL SET BY MCP                 |
|         |       | .1.. .... |      | CPLIVLDP IVL SET BY DP (WSD)            |
|         |       | ..11 1111 | *    | FREE                                    |
| 261     | (105) | CHARACTER | 1    | * FREE                                  |
| 262     | (106) | UNSIGNED  | 2    | CPLIVL#R1 CURRENT RESOURCE CAPACITY     |
| 264     | (108) | UNSIGNED  | 2    | CPLIVL#DPR1 CAPACITY SET AT DAILY PLAN  |
| 266     | (10A) | UNSIGNED  | 2    | CPLIVL#R2 CURRENT RESOURCE CAPACITY     |
| 268     | (10C) | UNSIGNED  | 2    | CPLIVL#DPR2 CAPACITY SET AT DAILY PLAN  |
| 270     | (10E) | CHARACTER | 4    | CPLIVLAWS NOT USED                      |
| 274     | (112) | CHARACTER | 4    | CPLIVLDPAWS NOT USED                    |
| 278     | (116) | CHARACTER | 6    | * FREE                                  |

## Cross reference

### Example

| NAME | HEX<br>OFFSET | HEX<br>VALUE | LEVEL |
|------|---------------|--------------|-------|
|------|---------------|--------------|-------|

|              |       |       |       |
|--------------|-------|-------|-------|
| -----        | ----- | ----- | ----- |
| CPLACCM22#   | D2    |       | 4     |
| CPLAUTO      | D1    |       | 4     |
| CPLAWS_VARY  | 9F    | 01    | 5     |
| CPLBDY22     | 13    |       | 3     |
| CPLCAWS02    | C0    |       | 4     |
| CPLCMDLNK    | D0    | 08    | 5     |
| CPLCMDSTA    | D0    | 04    | 5     |
| CPLCOFF_DATE | B8    |       | 5     |
| CPLCOFF_TIME | BC    |       | 5     |
| CPLCOFF02    | B8    |       | 4     |
| CPLCOM22     | 0     |       | 2     |
| CPLCREVT     | 7C    |       | 4     |
| CPLCWS_STAT  | B5    |       | 4     |
| CPLDATE      | 7C    |       | 5     |
| CPLDESCR22   | 18    |       | 4     |
| CPLDST22     | 6     |       | 4     |
| CPLEOPT22#   | DC    |       | 4     |
| CPLEYE22     | 13    |       | 4     |
| CPLFLGTWS    | D0    |       | 4     |
| CPLFLG02     | 9F    |       | 4     |
| CPLFULLNK    | D0    | 02    | 5     |
| CPLIVL#DPPS  | 102   |       | 2     |
| CPLIVL#DPR1  | 108   |       | 2     |
| CPLIVL#DPR2  | 10C   |       | 2     |
| CPLIVL#PS    | 100   |       | 2     |
| CPLIVL#R1    | 106   |       | 2     |
| CPLIVL#R2    | 10A   |       | 2     |
| CPLIVLAWS    | 10E   |       | 2     |
| CPLIVLDP     | 104   | 40    | 3     |
| CPLIVLDPAWS  | 112   |       | 2     |
| CPLIVLFD     | EC    |       | 3     |
| CPLIVLFR     | EC    |       | 2     |
| CPLIVLFT     | F2    |       | 3     |
| CPLIVLF2     | 104   |       | 2     |
| CPLIVLMC     | 104   | 80    | 3     |
| CPLIVLNP     | 9F    | 20    | 5     |
| CPLIVLNU     | 9F    | 40    | 5     |
| CPLIVL0I22   | EC    |       | 1     |
| CPLIVLTD     | F6    |       | 3     |
| CPLIVLTO     | F6    |       | 2     |
| CPLIVLTT     | FC    |       | 3     |
| CPLIVL22#I   | B0    |       | 4     |
| CPLKEY22     | 0     |       | 3     |
| CPLKF22      | E     |       | 4     |
| CPLKID22     | 0     |       | 4     |
| CPLLIMIT     | D4    |       | 4     |
| CPLLNKDW     | D0    | 20    | 5     |
| CPLLNKVA     | D0    | 80    | 5     |
| CPLLNK02     | CF    |       | 4     |
| CPLMAX15     | B2    |       | 4     |
| CPL0FF_PEND  | 9F    | 04    | 5     |
| CPLPREDT     | A0    |       | 5     |
| CPLPREEV     | A0    |       | 4     |
| CPLPREP      | 9F    | 80    | 5     |
| CPLPRETM     | A4    |       | 5     |
| CPLREC22     | 0     |       | 1     |
| CPLRENGT     | D7    |       | 4     |

|             |    |    |   |
|-------------|----|----|---|
| CPLRLTYP    | 9E |    | 4 |
| CPLRSEQ#02  | C6 |    | 4 |
| CPLRTR_PEND | 9F | 02 | 5 |
| CPLSSEQ#02  | C4 |    | 4 |
| CPLSTAVA    | D0 | 40 | 5 |
| CPLSTC      | 9F | 10 | 5 |
| CPLSUDS     | A8 |    | 4 |
| CPLSUMA     | 68 |    | 4 |
| CPLSUMC     | 38 |    | 4 |
| CPLSUMC#    | 38 |    | 5 |
| CPLSUMCE    | 3C |    | 5 |
| CPLSUMCES   | C7 |    | 4 |
| CPLSUMCR    | 40 |    | 5 |
| CPLSUMCRS   | C8 |    | 4 |
| CPLSUME     | 74 |    | 4 |
| CPLSUMI     | 44 |    | 4 |
| CPLSUMI#    | 44 |    | 5 |
| CPLSUMIE    | 48 |    | 5 |
| CPLSUMIES   | C9 |    | 4 |
| CPLSUMIR    | 4C |    | 5 |
| CPLSUMIRS   | CA |    | 4 |
| CPLSUML     | 78 |    | 4 |
| CPLSUMNRR   | 6C |    | 4 |
| CPLSUMR     | 58 |    | 4 |
| CPLSUMR#    | 58 |    | 5 |
| CPLSUMRE    | 5C |    | 5 |
| CPLSUMRES   | CC |    | 4 |
| CPLSUMS     | 50 |    | 4 |
| CPLSUMS#    | 50 |    | 5 |
| CPLSUMSE    | 54 |    | 5 |
| CPLSUMSES   | CB |    | 4 |
| CPLSUMU     | 70 |    | 4 |
| CPLSUMW     | 60 |    | 4 |
| CPLSUMW#    | 60 |    | 5 |
| CPLSUMWE    | 64 |    | 5 |
| CPLSUMWES   | CD |    | 4 |
| CPLSUMX     | 84 |    | 4 |
| CPLTIME     | 80 |    | 5 |
| CPLTRT02    | B6 |    | 4 |
| CPLUX009    | 9C | 20 | 5 |
| CPLVERS22   | 17 |    | 4 |
| CPLVMAX15   | D8 |    | 4 |
| CPLWRTST    | D0 | 10 | 5 |
| CPLWSDYN    | 96 | 02 | 5 |
| CPLWSN22    | 2  |    | 4 |
| CPLWSREP    | 91 |    | 4 |
| CPLWSR1C    | 96 | 80 | 5 |
| CPLWSR1FLG  | 96 |    | 4 |
| CPLWSR1IU#  | 94 |    | 4 |
| CPLWSR1N    | 92 |    | 4 |
| CPLWSR2C    | 9C | 80 | 5 |
| CPLWSR2FLG  | 9C |    | 4 |
| CPLWSR2IU#  | 9A |    | 4 |
| CPLWSR2N    | 98 |    | 4 |
| CPLWSSTA    | B4 |    | 4 |
| CPLWSSTAT   | 9C | 40 | 5 |
| CPLWSTWS    | CE |    | 4 |
| CPLWSTYP    | 90 |    | 4 |

|              |    |    |   |
|--------------|----|----|---|
| CPLWSVAR22   | EC |    | 2 |
| CPLWSVIRT    | 96 | 10 | 5 |
| CPLWSWAIT    | 96 | 20 | 5 |
| CPLWSZCAGENT | 96 | 08 | 5 |
| CPLWSZNOINFO | 96 | 04 | 5 |
| CPLWTO       | 9F | 08 | 5 |

## CPLREC24 - Current plan job recovery record

### Example

Name : DCLCPR24

Function:

This segment declares a jobname table record, physically located in EQQCPxDS and EQQNCPDS.

The CPLREC24 record is structured as follows:

- 1 CPLREC24
- 2 common data
- 2 message line entries ( )

### Common data segment

| Offsets |      |           |     |             |                                                        |
|---------|------|-----------|-----|-------------|--------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                            |
| 0       | (0)  | STRUCTURE | 208 | CPLREC24    | JOB RECOVERY RECORD                                    |
| 0       | (0)  | CHARACTER | 8   | CPL24KEY    | KEY OF RECORD                                          |
| 0       | (0)  | CHARACTER | 2   | CPLTYP24    | TYPE IS ALWAYS 24                                      |
| 2       | (2)  | UNSIGNED  | 3   | CPLOCC24    | OCCURENCE NUMBER                                       |
| 5       | (5)  | UNSIGNED  | 1   | CPLOPR24    | OPERATION NUMBER                                       |
| 6       | (6)  | SIGNED    | 2   | CPLSEQ24    | SEQUENCE NUMBER, 1ST=0001 IS NOT USED                  |
| 8       | (8)  | CHARACTER | 81  | CPL24BDY    | BODY MUST BE 85                                        |
| 8       | (8)  | CHARACTER | 4   | CPL24EYE    | EYE CATCHER                                            |
| 12      | (C)  | CHARACTER | 16  | CPL24ADID   | OCCURRENCE ADID                                        |
| 28      | (1C) | CHARACTER | 10  | CPL24IA     | OCCURRENCE INPUT ARRIVAL YYMMDDHHMM                    |
| 28      | (1C) | CHARACTER | 6   | CPL24IAD    | IA DATE                                                |
| 34      | (22) | CHARACTER | 4   | CPL24IAT    | IA TIME                                                |
| 38      | (26) | CHARACTER | 8   | CPL24JREID  | JOB ID OF RECOVERY JOB                                 |
| 38      | (26) | CHARACTER | 4   | CPL24JREIDP | JOBID PREFIX                                           |
| 42      | (2A) | SIGNED    | 4   | CPL24JREIDN | JOB ID NUMBER USED IN DATA PROCESSING IS NOT DISPLAYED |

| Offsets |      |           |     |             |                                                                                                                                       |
|---------|------|-----------|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                                                                                           |
| 46      | (2E) | CHARACTER | 4   | CPL24WSN    | WORKSTATION NAME                                                                                                                      |
| 50      | (32) | SIGNED    | 1   | CPL24RJST   | RECOVERY JOB STATUS                                                                                                                   |
| 51      | (33) | CHARACTER | 1   | CPL24FLAGS  | FLAGS                                                                                                                                 |
|         |      |           |     | CPL24COMP   | 1= JOBLOG IS IN<br>COMPRESSED FORMAT<br>(CSRCSRV COMPR.)                                                                              |
|         |      |           |     | CPL24NOLOG  | 1= NO JOBLOG FOUND                                                                                                                    |
|         |      |           |     | CPL24FAIL   | JOB FAIL                                                                                                                              |
|         |      |           |     | *           | RESERVED                                                                                                                              |
| 52      | (34) | SIGNED    | 4   | CPL24TOTSZ  | TOTAL SIZE OF RECORD, BEFORE THE SPLIT INTO TWO OR<br>MORE RECORDS AND BEFORE COMPRESSION                                             |
| 56      | (38) | SIGNED    | 4   | CPLSIZ24    | SIZE OF RECORD WHEN IN CP                                                                                                             |
| 56      | (38) | SIGNED    | 4   | CPL24CSZ    | COMPRESSED SIZE (INCL HEADER)                                                                                                         |
| 60      | (3C) | CHARACTER | 10  | CPL24START  | RECOVERY JOB START                                                                                                                    |
| 60      | (3C) | CHARACTER | 6   | CPL24STARTD | DATE   BLANK                                                                                                                          |
| 66      | (42) | SIGNED    | 4   | CPL24STARTT | TIME IN SEC*100   0                                                                                                                   |
| 70      | (46) | CHARACTER | 10  | CPL24END    | RECOVERY JOB END TIME                                                                                                                 |
| 70      | (46) | CHARACTER | 6   | CPL24ENDD   | DATE   BLANK                                                                                                                          |
| 76      | (4C) | SIGNED    | 4   | CPL24ENDT   | TIME IN SEC*100   0<br>TIME IN SEC*100   0                                                                                            |
| 80      | (50) | SIGNED    | 4   | CPL#LINE24  | NUMBER OF JOBLOG RECORDS                                                                                                              |
| 84      | (54) | SIGNED    | 4   | CPLLO24     | OFFSET TO LAST MESSAGE LINE                                                                                                           |
| 88      | (58) | CHARACTER | 1   | *           | RESERVED                                                                                                                              |
| 89      | (59) | CHARACTER | 1   | CPL24ST     | STATUS OF JOBLOG<br>ARCHIVING:<br>'' =NOT REQUIRED<br>W=WAITING FOR RETRIEVAL<br>C=RETRIEVE COMPLETED<br>E=RETRIEVE ENDED IN<br>ERROR |
| 90      | (5A) | CHARACTER | 1   | CPL24VERS   | VERSION                                                                                                                               |
| 91      | (5B) | CHARACTER | 1   | *           | RESERVED                                                                                                                              |



| Offsets |      |           |     |               |                                                                                                                  |
|---------|------|-----------|-----|---------------|------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                                                      |
| 92      | (5C) | CHARACTER | 8   | CPL24JID      | ID OF JOB TO RECOVER                                                                                             |
| 100     | (64) | CHARACTER | 8   | CPL24RJID     | RECOVERY JOB ID TO DISPLAY                                                                                       |
| 108     | (6C) | SIGNED    | 4   | CPL24DUR      | RECOVERY JOB DURATION (SEC*100)                                                                                  |
| 112     | (70) | SIGNED    | 4   | CPL24PROMPTID | RECOVERY PROMPT ID                                                                                               |
| 116     | (74) | CHARACTER | 64  | CPL24PRTMSG   | RECOVERY MESSAGE                                                                                                 |
| 180     | (B4) | CHARACTER | 1   | CPL24PRTSTAT  | RECOVERY PROMPT STATUS:<br>' ' = NO PROMPT<br>'A' = ASKED (NO REPLY)<br>'N' = REPLY WITH N<br>'Y' = REPLY WITH Y |
| 181     | (B5) | CHARACTER | 1   | CPL24RECTYPE  | RECOVERY TYPE USED<br>FOR DISPLAY FOR CODE<br>USE EX0:<br>S = STOP<br>C = CONTINUE<br>R = RERUN                  |
| 182     | (B6) | CHARACTER | 4   | CPL24ERRC     | ERROR CODE                                                                                                       |
| 186     | (34) | CHARACTER | 4   | CPL24MAINWS   | RECOVER JOB WORKSTATION                                                                                          |
| 190     | (BE) | CHARACTER | 2   | *             | RESERVED                                                                                                         |
| 192     | (C0) | CHARACTER | 4   | CPL24ERRCFIX  | ERROR CODE FIXED                                                                                                 |
| 196     | (C4) | SIGNED    | 12  | *             | RESERVED                                                                                                         |
| 208     | (D0) | CHARACTER |     | CPLDATA24     | DATA PORTION                                                                                                     |

## Messages line segment

### Example

The value of CPL#LINE24 in the common data segment describes the number of message line segments.

| Offsets |     |           |     |             |             |
|---------|-----|-----------|-----|-------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description |
| 0       | (0) | STRUCTURE | *   | CPLSYSOUT24 |             |

| Offsets |     |           |     |             |                                             |
|---------|-----|-----------|-----|-------------|---------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                                 |
| 0       | (0) |           | 4   | CPLMSG24L   | LENGTH OF<br>SYSOUT MESSAGE<br>LINE         |
| 4       | (4) | CHARACTER | 2   | CPLMSG24FLG | FLAGS                                       |
| 4       | (4) | CHARACTER | 1   | CPLTYPE24   | LINE TYPE:<br>J = JOBLOG<br>' ' =USERSYSOUT |
| 5       | (5) |           | 1   | *           | RESERVED                                    |
| 6       | (6) |           | 2   | CPLMSG24NO  | OFFSET TO NEXT MESSAGE                      |
| 8       | (8) |           | *   | CPLMSG24    | MESSAGE                                     |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPL#LINE24  | 50         |           | 3     |
| CPLDATA24   | D0         |           | 2     |
| CPLLO24     | 54         |           | 3     |
| CPLTYPE24   | 4          |           | 3     |
| CPLMSG24    | 8          |           | 2     |
| CPLMSG24FLG | 4          |           | 2     |
| CPLMSG24L   | 0          |           | 2     |
| CPLMSG24NO  | 6          |           | 2     |
| CPLOCC24    | 2          |           | 3     |
| CPLOPR24    | 5          |           | 3     |
| CPLREC24    | 0          |           | 1     |
| CPLSEQ24    | 6          |           | 3     |
| CPLSIZ24    | 38         |           | 3     |
| CPLSYSOUT24 | 0          |           | 1     |
| CPLTYP24    | 0          |           | 3     |
| CPL24ADID   | C          |           | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPL24BDY      | 8          |           | 2     |
| CPL24COMP     | 33         | 80        | 4     |
| CPL24CSZ      | 38         |           | 4     |
| CPL24DUR      | 6C         |           | 2     |
| CPL24END      | 46         |           | 3     |
| CPL24ENDD     | 46         |           | 4     |
| CPL24ENDT     | 4C         |           | 4     |
| CPL24ERRC     | B6         |           | 2     |
| CPL24ERRCFIX  | C0         |           | 2     |
| CPL24EYE      | 8          |           | 3     |
| CPL24FAIL     |            | 20        | 4     |
| CPL24FLAGS    | 33         |           | 3     |
| CPL24IA       | 1C         |           | 3     |
| CPL24IAD      | 1C         |           | 4     |
| CPL24IAT      | 22         |           | 4     |
| CPL24JID      | 5C         |           | 2     |
| CPL24JREID    | 26         |           | 3     |
| CPL24JREIDN   | 2A         |           | 4     |
| CPL24JREIDP   | 26         |           | 2     |
| CPL24KEY      | 0          |           | 2     |
| CPL24MAINWS   | BA         |           | 2     |
| CPL24NOLOG    | 33         | 40        | 4     |
| CPL24PROMPTID | 70         |           | 2     |
| CPL24PRTMSG   | 74         |           | 2     |
| CPL24PRTSTAT  | B4         |           | 2     |
| CPL24RECTYPE  | B5         |           | 2     |
| CPL24RJID     | 64         |           | 2     |
| CPL24RJST     | 32         |           | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPL24ST     | 59         |           | 2     |
| CPL24START  | 3C         |           | 3     |
| CPL24STARTD | 3C         |           | 4     |
| CPL24STARTT | 42         |           | 4     |
| CPL24TOTSZ  | 34         |           | 3     |
| CPL24VERS   | 5A         |           | 2     |
| CPL24WSN    | 2E         |           | 3     |

## CPLREC3C - Current plan occurrence record

### Example

Name : DCLCPR3C

Function:

This segment declares a current plan occurrence record, physically located in EQQCPXDS and EQQNCPDS.

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | *   | CPLREC3C   | OCCURRENCE RECORD         |
| 0       | (0)  | CHARACTER | 302 | CPLCOM3C   | COMMON PART OF RECORD     |
| 0       | (0)  | CHARACTER | 12  | CPLKEYOC   |                           |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 03         |
| 2       | (2)  | CHARACTER | 4   | CPLNDXOC   | KEY TO OCCURRENCE RECORD  |
| 2       | (2)  | UNSIGNED  | 3   | CPLOC03C   | OCC NUMBER                |
| 5       | (5)  | UNSIGNED  | 1   | CPL0P03C   | OP. NUMBER SET TO ZERO    |
| 6       | (6)  | CHARACTER | 6   | CPLKF03C   | should contain blanks     |
| 12      | (C)  | CHARACTER | 290 | CPLBDYOC   | BODY OF OCCURRENCE RECORD |
| 12      | (C)  | CHARACTER | 4   | CPLYE3C    | EYECATCHER                |
| 16      | (10) | UNSIGNED  | 1   | CPLVERS3C  | VERSION NUMBER            |
| 17      | (11) | CHARACTER | 8   | CPLGROUP3C | AUTHORITY GROUP           |
| 25      | (19) | CHARACTER | 1   | CPL3CFLAGS | FIELDS FLAGS              |

| Offsets |      |           |     |               |                                                                                                                               |
|---------|------|-----------|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                                                                   |
|         |      | 1111 .... |     | *             | FREE                                                                                                                          |
|         |      | .... 1... |     | CPL3CINFOISON | ADDITIONAL INFO IS AVAILABLE                                                                                                  |
|         |      | .... .1.. |     | CPL3CSERVICE  | OCCURRENCE IS A SERVICE                                                                                                       |
|         |      | .... ..11 |     | *             | FREE                                                                                                                          |
| 26      | (1A) | CHARACTER | 2   | *             | FREE                                                                                                                          |
| 28      | (1C) | CHARACTER | 16  | CPLADIOC      | APPLICATION ID                                                                                                                |
| 44      | (2C) | CHARACTER | 10  | CPLIAOC       | INPUT ARRIVAL FROM LTP                                                                                                        |
| 44      | (2C) | CHARACTER | 6   | CPLIADOC      | DATE                                                                                                                          |
| 50      | (32) | CHARACTER | 4   | CPLIATOC      | TIME                                                                                                                          |
| 54      | (36) | CHARACTER | 10  | CPLIMOC       | MODIFIED INPUT ARRIVAL OR IA FROM LTP                                                                                         |
| 54      | (36) | CHARACTER | 6   | CPLIMDOC      | DATE                                                                                                                          |
| 60      | (3C) | CHARACTER | 4   | CPLIMTOC      | TIME                                                                                                                          |
| 64      | (40) | SIGNED    | 2   | CPLNETOC      | NETWORK ID                                                                                                                    |
| 66      | (42) | CHARACTER | 24  | CPLTXTOC      | APPL.DESRIPTIVE TEXT                                                                                                          |
| 90      | (5A) | CHARACTER | 16  | CPLOIDOC      | OWNER ID                                                                                                                      |
| 106     | (6A) | CHARACTER | 24  | CPLTXOC       | OWNER DESCRIPTION                                                                                                             |
| 130     | (82) | CHARACTER | 10  | CPLDLOC       | DEADLINE                                                                                                                      |
| 130     | (82) | CHARACTER | 6   | CPLDLDOC      | DATE                                                                                                                          |
| 136     | (88) | CHARACTER | 4   | CPLDLTOC      | TIME                                                                                                                          |
| 140     | (8C) | CHARACTER | 1   | CPLPRIOC      | PRIORITY                                                                                                                      |
| 141     | (8D) | CHARACTER | 1   | CPLSTAOC      | S=STARTED,U=UNDECIDED,<br>D=DELETED,W=WAITING<br>C=COMPLET,E=ENDED IN ERROR<br>P=PENDING PREDECESSOR<br>M=MANDATORY PEND PRED |
| 142     | (8E) | CHARACTER | 10  | CPLAAOC       | ACTUAL ARRIVAL BLANK                                                                                                          |
| 142     | (8E) | CHARACTER | 6   | CPLAADOC      | DATE                                                                                                                          |
| 148     | (94) | CHARACTER | 4   | CPLAATOC      | TIME                                                                                                                          |
| 152     | (98) | CHARACTER | 10  | CPLACOC       | ACTUAL COMPLETION BLANK                                                                                                       |

| Offsets |      |           |     |            |                                                             |
|---------|------|-----------|-----|------------|-------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                 |
| 152     | (98) | CHARACTER | 6   | CPLACDOC   | DATE                                                        |
| 158     | (9E) | CHARACTER | 4   | CPLACTOC   | TIME                                                        |
| 162     | (A2) | SIGNED    | 2   | CPLCOPOC   | NDX TO NON-COMPLETE OP WITH EARLIEST LATEST OUT             |
| 164     | (A4) | UNSIGNED  | 4   | CPLRDUOC   | REMAINING DUR (sec) ON CURRENT CRITICAL PATH                |
| 168     | (A8) | SIGNED    | 4   | CPLROPOC   | NUMBER OF REMAINING OPS ON CURRENT CRITICAL PATH            |
| 172     | (AC) | SIGNED    | 4   | CPLOPOC    | NUMBER OF OPS IN OCC                                        |
| 172     | (AC) | SIGNED    | 4   | CPLsuccDep | NUMBER OF successors dependencies<br>VALID ONLY FOR 'M' occ |
| 176     | (B0) | SIGNED    | 4   | CPLOPCOC   | NUMBER OF OPS COMPLETED                                     |
| 180     | (B4) | SIGNED    | 4   | CPLEROC    | NBR OF OPS ENDED IN ERROR                                   |
| 184     | (B8) | SIGNED    | 4   | CPLUNOC    | NUMBER OF OPS UNDECIDED                                     |
| 188     | (BC) | SIGNED    | 4   | CPLSTOC    | NUMBER OF OPS STARTED                                       |
| 192     | (C0) | CHARACTER | 4   | CPLERROC   | ERROR CODE OF OCC                                           |
| 196     | (C4) | SIGNED    | 2   | CPLRSROC   | INDEX OF REM.SLACK CHAIN                                    |
| 198     | (C6) | SIGNED    | 2   | CPLRSOOC   | OFFSET IN REM SLACK REC.                                    |
| 200     | (C8) | SIGNED    | 2   | CPLUOROC   | INDEX OF UNDECIDED CHAIN R                                  |
| 202     | (CA) | SIGNED    | 2   | CPLUOOOC   | OFFSET IN UNDECIDED REC                                     |
| 204     | (CC) | CHARACTER | 1   | CPLSWIOC   | BIT SWITCHES                                                |
|         |      | 1... ..   |     | CPLREROC   | 1 MEANS RERUN REQUESTED                                     |
|         |      | .1.. ..   |     | CPLDEFOC   | 1 = DEFAULT RULE FOR PEND                                   |
|         |      | ..1. .... |     | CPLXPOC    | 1=CURR. VALUE IN AAOC FROM OP. WITH EXPL. INP. ARRIVAL      |
|         |      | ...1 .... |     | CPLMCPOC   | 1 MEANS ADDED BY MCP                                        |
|         |      | .... 1... |     | cpllt poc  | came from LTP at last DP                                    |
|         |      | .... .1.. |     | CPLMONC    | any monitored op in occ                                     |
|         |      | .... ..1. |     | CPLMPEND   | original MPEND                                              |

| Offsets |       |           |     |               |                                                                                            |
|---------|-------|-----------|-----|---------------|--------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)    | Description                                                                                |
|         |       | .... ...1 |     | CPLADEPFLAG   | ON = SOME APPLICATION DEP. AO-OA-AA                                                        |
| 205     | (CD)  | CHARACTER | 1   | CPLADDOC      | HOW ADDED TO CP D MEANS MCP-DIALOG<br>E MEANS ETT P MEANS PIF A MEANS AR<br>BLANK MEANS DP |
| 206     | (CE)  | CHARACTER | 16  | cpljvtab      | jcl var table name jcla                                                                    |
| 222     | (DE)  | CHARACTER | 16  | cplOCCgroup   | occurrence group ref ADGA                                                                  |
| 238     | (EE)  | CHARACTER | 16  | cplcal        | calendar name                                                                              |
| 254     | (FE)  | CHARACTER | 8   | cpluseroc     | lastupdate user-id                                                                         |
| 262     | (106) | CHARACTER | 8   | cplocctok     | occ token TOD D90C                                                                         |
| 270     | (10E) | CHARACTER | 1   | cplTWSocc     | Y means IWS occurrence                                                                     |
| 271     | (10F) | UNSIGNED  | 1   | cplettinfo    | Extended ETT info area 0 = not allocated 1 = allocated                                     |
| 272     | (110) | SIGNED    | 2   | cplrunidc     | ADR run cycle id                                                                           |
| 274     | (112) | UNSIGNED  | 1   | cpl#fop       | number of FOPs                                                                             |
| 275     | (113) | UNSIGNED  | 1   | cpl#lop       | number of LOPs                                                                             |
| 276     | (114) | SIGNED    | 4   | cplxcoc       | number of dum compl ops                                                                    |
| 280     | (118) | CHARACTER | 8   | cploccrunc    | occurrence generator run cycle                                                             |
| 288     | (120) | SIGNED    | 4   | cpl#proc      | number of application predecessor                                                          |
| 292     | (124) | SIGNED    | 4   | cpl£suoc      | number of application successors                                                           |
| 296     | (128) | UNSIGNED  | 2   | cpl#pcoc      | number of completed application predecessors                                               |
| 298     | (12A) | SIGNED    | 4   | cpl#flidx     | FOP/LOP idx                                                                                |
| 302     | (12E) | CHARACTER | 4   | *             | free                                                                                       |
| 306     | (132) | CHARACTER | 8   | cpl3CTOD      | last update TOD                                                                            |
| 314     | (13A) | CHARACTER | 8   | *             | free                                                                                       |
| 322     | (142) | CHARACTER | 16  | cplAdFolderId | AD folder ID                                                                               |
| 338     | (152) | SIGNED    | 4   | cplAdFolder#  | AD folder ID is local                                                                      |
| 342     | (156) | CHARACTER | *   | cplvar3c      | variable part of record                                                                    |

## APPLICATION FOPs

| Offsets |     |              |     |            |                      |
|---------|-----|--------------|-----|------------|----------------------|
| Dec     | Hex | Type         | Len | Name (Dim) | Description          |
| 0       | (0) | UNSTRUCTURED | 2   | CPLFOP (*) |                      |
| 0       | (0) | UNSIGNED     | 2   | CPLFOPOPNO | FOP operation number |

## APPLICATION LOPs

| Offsets |     |              |     |            |                      |
|---------|-----|--------------|-----|------------|----------------------|
| Dec     | Hex | Type         | Len | Name (Dim) | Description          |
| 0       | (0) | UNSTRUCTURED | 2   | CPLLOP (*) |                      |
| 0       | (0) | UNSIGNED     | 2   | CPLLOPOPNO | LOP operation number |

## ETT VARIABLES

| Offsets |      |           |     |              |                     |
|---------|------|-----------|-----|--------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description         |
| 0       | (0)  | STRUCTURE | 159 | cplettvar    | ETT variables       |
| 0       | (0)  | CHARACTER | 159 | cplett3c     | ETT entry           |
| 0       | (0)  | CHARACTER | 44  | cplettcrit   | ETT criteria        |
| 44      | (2C) | CHARACTER | 1   | cpletttyp    | J or R              |
| 45      | (2D) | CHARACTER | 8   | cplettjob    | Jobname             |
| 53      | (35) | CHARACTER | 8   | cplettjid    | Jobid               |
| 61      | (3D) | UNSIGNED  | 1   | cplettgrootl | GDG root length     |
| 62      | (3E) | CHARACTER | 44  | cplettevnsm  | Full ETT event name |
| 106     | (6A) | CHARACTER | 53  | *            | Free                |



## APPLICATION PREDECESSOR

| Offsets |     |           |     |                |                                                                                                    |
|---------|-----|-----------|-----|----------------|----------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description                                                                                        |
| 0       | (0) | STRUCTURE | 12  | CPLPREOC (*)   | PREDECESSOR SWITCHES                                                                               |
| 0       | (0) | CHARACTER | 1   | CPLPSWOC       | PREDECESSOR COMPLETED                                                                              |
|         |     | 1... ..   |     | CPLPCOOC       | PRED. WS WAS NON-REPORTING                                                                         |
|         |     | .1... ..  |     | CPLPNROC       | PENDING PRED OCCURRENCE                                                                            |
|         |     | ..1. .... |     | CPLPNDOC       | Critical Path indicator for internal processing                                                    |
|         |     | ...1 .... |     | CPLCRITPREDOC  | on is a mandatory pend.                                                                            |
|         |     | .... 1... |     | CPLPMANDPENDOC | RESERVED                                                                                           |
|         |     | .... .111 | *   |                |                                                                                                    |
| 1       | (1) | CHARACTER | 1   | CPLPMATCOC     | Originating matching criteria - C closest preceding - S same day - A absolute IVL - R relative IVL |
| 2       | (2) | SIGNED    | 2   | CPLPTTOC       | TRANSPORT TIME                                                                                     |
| 2       | (1) | UNSIGNED  | 1   | CPLPTTOCO      |                                                                                                    |
| 3       | (1) | UNSIGNED  | 1   | CPLPTTOCORIG   | ORIG OPER NUM                                                                                      |
| 4       | (4) | CHARACTER | 4   | CPLPOC         | PREDECESSOR OP'S KEY IN CP                                                                         |
| 4       | (4) | UNSIGNED  | 3   | CPLPOCOC       | OCCURRENCE INDEX                                                                                   |
| 7       | (7) | UNSIGNED  | 1   | CPLPOPOC       | OPERATION NO.                                                                                      |
| 8       | (8) | CHARACTER | 4   | CPLPMATCIVLOC  | resolution criteria IVL                                                                            |
| 8       | (8) | SIGNED    | 2   | CPLPIVLEFTOC   | - left side - min value -32500 means no left side                                                  |
| 10      | (A) | SIGNED    | 2   | CPLPIVRIGHTOC  | - right side - min value 0 means same IA                                                           |

## APPLICATION SUCCESSOR

| Offsets |     |           |     |               |                            |
|---------|-----|-----------|-----|---------------|----------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description                |
| 0       | (0) | STRUCTURE | 6   | CPLSUCOC (*)  |                            |
| 0       | (0) | CHARACTER | 1   | CPLSSWOC      | SUCCESSOR SWITCHES         |
|         |     | 1... ..   |     | CPLSCROC      | Critical path successor    |
|         |     | .1... ..  |     | CPLSTARGETOCC | Successor is an occurrence |
|         |     | ..11 1111 |     | *             | RESERVED                   |
| 1       | (1) | CHARACTER | 1   | *             | FREE                       |
| 2       | (2) | CHARACTER | 4   | CPLSOC        | SUCCESSOR OP'S KEY IN CP   |
| 2       | (2) | UNSIGNED  | 3   | CPLSOCOC      | OCCURRENCE INDEX           |
| 5       | (5) | UNSIGNED  | 1   | CPLSOPOC      | OPERATION NO.              |

#### FOP INFORMATION

| Offsets |     |           |     |            |              |
|---------|-----|-----------|-----|------------|--------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description  |
| 0       | (0) | STRUCTURE |     | CPLFOP     |              |
| 0       | (2) | SIGNED    |     | CPLFOPOPNO | FOP OPER NUM |

#### LOP INFORMATION

| Offsets |     |           |     |            |              |
|---------|-----|-----------|-----|------------|--------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description  |
| 0       | (0) | STRUCTURE |     | CPLLOP     |              |
| 0       | (2) | SIGNED    |     | CPLLOPOPNO | LOP OPER NUM |

## ADDITIONAL OCCURRENCE INFORMATION

| Offsets |      |           |     |                  |                                                         |
|---------|------|-----------|-----|------------------|---------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description                                             |
| 0       | (0)  | STRUCTURE | 1   | CPL3CINFO        | ADDITIONAL OCCURRENCE INFO                              |
| 0       | (0)  | CHARACTER | 4   | CPL3CINFOEYE     | CPL3CINFO EYE CATCHER. IT IS ALWAYS SET TO "3CIN".      |
| 4       | (4)  | UNSIGNED  | 1   | CPL3CINFOVER     | INFORMATION STRUCTURE VERSION. IT IS ALWAYS SET TO "1". |
| 5       | (5)  | CHARACTER | 3   | *                | FREE                                                    |
| 8       | (8)  | CHARACTER | 32  | CPL3CSERVICEUSER | ENCRYPTED USER ID ADDING THE SERVICE                    |
| 40      | (28) | CHARACTER | 0   | CPL3CINFOEND     | END OF ADDITIONAL INFO                                  |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPL3CTOD   | 132        |           | 4     |
| CPLEROC    | B4         |           | 4     |
| CPLOCCRUNC | 118        |           | 4     |
| CPLOPOC    | AC         |           | 4     |
| CPLSTOC    | BC         |           | 4     |
| CPLSUCCDEP | AC         |           | 5     |
| CPLUNOC    | B8         |           | 4     |
| CPLXCOC    | 114        |           | 4     |
| CPLAADOC   | 8E         |           | 5     |
| CPLAAOC    | 8E         |           | 4     |
| CPLAATOC   | 94         |           | 5     |
| CPLACDOC   | 98         |           | 5     |
| CPLACOC    | 98         |           | 4     |
| CPLACTOC   | 9E         |           | 5     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| CPLADDOC        | CD         |           | 4     |
| CPLADIOC        | 1C         |           | 4     |
| CPLBDYOC        | C          |           | 3     |
| CPLCAL          | EE         |           | 4     |
| CPLCOM3C        | 0          |           | 2     |
| CPLCOPOC        | A2         |           | 4     |
| CPLDEFOC        | CC         | 40        | 5     |
| CPLDLDOC        | 82         |           | 5     |
| CPLDLOC         | 82         |           | 4     |
| CPLDLTOC        | 88         |           | 5     |
| CPLERROC        | C0         |           | 4     |
| cplettcrit      | 0          |           | 3     |
| cplettevn timer | 3E         |           | 3     |
| cplettgrootl    | 3D         |           | 3     |
| cplettinfo      | 10F        |           | 4     |
| cplettjid       | 35         |           | 3     |
| cplettjob       | 2D         |           | 3     |
| cpletttyp       | 2C         |           | 3     |
| cplettvar       | 0          |           | 1     |
| cplett3c        | 0          |           | 2     |
| CPLXPOC         | CC         | 20        | 5     |
| CPLYE3C         | C          |           | 4     |
| CPLGROUP3C      | 11         |           | 4     |
| CPLIADOC        | 2C         |           | 5     |
| CPLIAOC         | 2C         |           | 4     |
| CPLIATOC        | 32         |           | 5     |
| CPLIMDOC        | 36         |           | 5     |
| CPLIMOC         | 36         |           | 4     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPLIMTOC    | 3C         |           | 5     |
| cpljvtab    | CE         |           | 4     |
| CPLKEYOC    | 0          |           | 3     |
| CPLKF03C    | 6          |           | 4     |
| cpllt poc   | CC         | 08        | 5     |
| cpluseroc   | FE         |           | 4     |
| CPLMCPOC    | CC         | 10        | 5     |
| CPLMONC     | CC         | 04        | 5     |
| CPLMPEND    | CC         | 02        | 5     |
| CPLNDXOC    | 2          |           | 4     |
| CPLNETOC    | 40         |           | 4     |
| cplOCCgroup | DE         |           | 4     |
| cplocctok   | 106        |           | 4     |
| CPLOC03C    | 2          |           | 5     |
| CPLOIDOC    | 5A         |           | 4     |
| CPLOPCOC    | B0         |           | 4     |
| CPLOP03C    | 5          |           | 5     |
| CPLOTXOC    | 6A         |           | 4     |
| CPLPRIOC    | 8C         |           | 4     |
| CPLRDUOC    | A4         |           | 4     |
| CPLREC3C    | 0          |           | 1     |
| CPLREROC    | CC         | 80        | 5     |
| CPLROPOC    | A8         |           | 4     |
| CPLRSOOC    | C6         |           | 4     |
| CPLRSROC    | C4         |           | 4     |
| CPLRUNIDC   | 110        |           | 4     |
| CPLSTAOC    | 8D         |           | 4     |
| CPLSWIOC    | CC         |           | 4     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| cplTWSocc      | 10E        |           | 4     |
| CPLTXTOC       | 42         |           | 4     |
| CPLU00OC       | CA         |           | 4     |
| CPLUOROC       | C8         |           | 4     |
| CPLVAR3C       | 12E        |           | 2     |
| CPLVERS3C      | 10         |           | 4     |
| CPLPREOC       | 0          |           | 1     |
| CPLPSWOC       | 0          |           | 2     |
| CPLPC0OC       | 0          | 80        | 3     |
| CPLPNROC       | 0          | 40        | 3     |
| CPLPNDOC       | 0          | 20        | 3     |
| CPLCRITPREDOC  | 0          | 10        | 3     |
| CPLPMANDPENDOC | 0          | 08        | 3     |
| CPLPMATCOC     | 1          |           | 2     |
| CPLPTTOC       | 2          |           | 2     |
| CPLPOC         | 4          |           | 2     |
| CPLPOCOC       | 4          |           | 3     |
| CPLPOPOC       | 7          |           | 3     |
| CPLPMATCIVLOC  | 8          |           | 2     |
| CPLPIVLLEFTOC  | 8          |           | 3     |
| CPLPIVLRIGHTOC | A          |           | 3     |
| CPLSUCOC       | 0          |           | 1     |
| CPLSSWOC       | 0          |           | 2     |
| CPLSCROC       | 0          | 80        | 3     |
| CPLSTARGETOCC  | 0          | 40        | 3     |
| CPLSOC         | 2          |           | 2     |
| CPLSOCOC       | 2          |           | 3     |
| CPLSOPOC       | 5          |           | 3     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPL£FLIDX | 12A        |           | 4     |
| CPL£PCOC  | 128        |           | 4     |
| CPL£PROC  | 120        |           | 4     |
| CPL£SUOC  | 124        |           | 4     |

## CPLREC3P - Current plan operation record

### Example

Name: DCLCPR3P

Function:

This segment declares a current plan operation record, physically located in EQQCPXDS and EQQNCPDS.

| Offsets |      |           |     |            |                                                                                               |
|---------|------|-----------|-----|------------|-----------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                   |
| 0       | (0)  | STRUCTURE | *   | CPLREC3P   | OPERATION RECORD                                                                              |
| 0       | (0)  | CHARACTER | 436 | CPLCOM3P   |                                                                                               |
| 0       | (0)  | CHARACTER | 12  | CPLKEYOP   |                                                                                               |
| 0       | (0)  | CHARACTER | 2   | CPLKYP3P   | TYPE IS ALWAYS 03                                                                             |
| 2       | (2)  | CHARACTER | 4   | CPLNDXOP   | KEY TO OCCOP RECORD                                                                           |
| 2       | (2)  | UNSIGNED  | 3   | CPLOC03P   | OCCURENC NUMBER                                                                               |
| 5       | (5)  | UNSIGNED  | 1   | CPLOP03P   | OPERATION NUMBER                                                                              |
| 6       | (6)  | CHARACTER | 6   | CPLKF03P   | SHOULD CONTAIN blanks                                                                         |
| 12      | (C)  | CHARACTER | 424 | CPLBDYOP   | BODY OF OPERATION RECORD                                                                      |
| 12      | (C)  | CHARACTER | 4   | CPLEYE3P   | EYECATCHER                                                                                    |
| 16      | (10) | UNSIGNED  | 1   | CPLVERS3P  | VERSION NUMBER                                                                                |
| 17      | (11) | CHARACTER | 8   | CPLGROUP3P | AUTHORITY GROUP                                                                               |
| 25      | (19) | CHARACTER | 1   | CPLCLNSTAT | Clean Up status, see DCLRCCON<br><br>blank = none<br>R = request OPInfo<br>W = waiting OPInfo |

| Offsets |      |           |     |            |                                                                                            |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                |
|         |      |           |     |            | O = avail OPInfo<br>I = initiated<br>S = started<br>C = completed<br>E = ended in error    |
| 26      | (1A) | CHARACTER | 16  | CPLADIOP   | APPLICATION ID                                                                             |
| 42      | (2A) | CHARACTER | 10  | CPLIAOP    | APPL INP. ARRIVAL AFTER MCP                                                                |
| 42      | (2A) | CHARACTER | 6   | CPLIADOP   | DATE                                                                                       |
| 48      | (30) | CHARACTER | 4   | CPLIATOP   | TIME                                                                                       |
| 52      | (34) | SIGNED    | 2   | CPLNETOP   | NETWORK ID                                                                                 |
| 54      | (36) | CHARACTER | 24  | CPLTXTOP   | OP TEXT DESCRIPTION                                                                        |
| 78      | (4E) | CHARACTER | 8   | CPLJBNOP   | OP OS JOBNAME   BLANK                                                                      |
| 86      | (56) | CHARACTER | 8   | CPLJIDOP   | JOB ID                                                                                     |
| 86      | (56) | CHARACTER | 4   | CPLJIDOPP  | Job id prefix for IWS                                                                      |
| 90      | (5A) | SIGNED    | 4   | CPLJIDOPN  | Job id number (IWS)                                                                        |
| 94      | (5E) | CHARACTER | 6   | CPLIDOP    | OPERATION ID                                                                               |
| 94      | (5E) | CHARACTER | 4   | CPLWSOP    | WS NAME                                                                                    |
| 98      | (62) | SIGNED    | 2   | CPLNUMOP   | OPERATION CREATION NUMBER                                                                  |
| 100     | (64) | CHARACTER | 1   | CPLJCLOP   | JOBCLASS OR SYSOUTCLASS   BLANK                                                            |
| 101     | (65) | BITSTRING | 1   | CPLFLG05   | Flag byte 5                                                                                |
|         |      | 1... ..   |     | CPLDEFLT   | OPER IA DEFAULTED                                                                          |
|         |      | .1.. ..   |     | CPLPSUWAIT | 1 = wait for PSU done set by dialog when apply logic is needed, but cleanup is set to none |
|         |      | ..1. .... |     | CPLCP15REQ | on = Ask opi CP15 in progress                                                              |
|         |      | ...1 .... |     | CPLMHLD    | on=manually held op                                                                        |
|         |      | .... 1... |     | CPLNOP     | on=nop op                                                                                  |
|         |      | .... .1.. |     | CPLXEXEC   | on=execute operation                                                                       |
|         |      | .... ..1. |     | CPLCLNCM   | on=clean up comm issued                                                                    |



| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
|         |      | .... ...1 |     | CPLSSEQ    | CPLISOP used as SSEQ      |
| 102     | (66) | CHARACTER | 8   | CPLFRMOP   | FORMNUMBER   BLANK        |
| 110     | (6E) | CHARACTER | 10  | CPLPSOP    | PLANNED START             |
| 110     | (6E) | CHARACTER | 6   | CPLPSDOP   | DATE   BLANK              |
| 116     | (74) | SIGNED    | 4   | CPLPSTOP   | TIME   0                  |
| 120     | (78) | CHARACTER | 10  | CPLPEOP    | PLANNED END               |
| 120     | (78) | CHARACTER | 6   | CPLPEDOP   | DATE   BLANK              |
| 126     | (7E) | SIGNED    | 4   | CPLPETOP   | TIME   0                  |
| 130     | (82) | CHARACTER | 10  | CPLOIOP    | OPERATION INPUT ARRIVAL   |
| 130     | (82) | CHARACTER | 6   | CPLOIDOP   | DATE   BLANK              |
| 136     | (88) | CHARACTER | 4   | CPLOITOP   | TIME   BLANK              |
| 140     | (8C) | CHARACTER | 10  | CPLODOP    | OPERATION DEADLINE        |
| 140     | (8C) | CHARACTER | 6   | CPLODDOP   | DATE   BLANK              |
| 146     | (92) | CHARACTER | 4   | CPLODTOP   | TIME   BLANK              |
| 150     | (96) | CHARACTER | 10  | CPLLOOP    | LATEST OUT FOR OP         |
| 150     | (96) | CHARACTER | 6   | CPLLODOP   | DATE                      |
| 156     | (9C) | SIGNED    | 4   | CPLLOTOP   | TIME                      |
| 160     | (A0) | CHARACTER | 10  | CPLASOP    | ACTUAL START              |
| 160     | (A0) | CHARACTER | 6   | CPLASDOP   | DATE   BLANK              |
| 166     | (A6) | SIGNED    | 4   | CPLASTOP   | TIME   0                  |
| 170     | (AA) | CHARACTER | 10  | CPLAAOP    | ACTUAL ARRIVAL            |
| 170     | (AA) | CHARACTER | 6   | CPLAADOP   | DATE   BLANK              |
| 176     | (B0) | SIGNED    | 4   | CPLAATOP   | TIME   0                  |
| 180     | (B4) | CHARACTER | 10  | CPLISOP    | INTERMEDIATE START (IF OP |
| 180     | (B4) | CHARACTER | 6   | CPLISDOP   | DATE   BLANK WAS IRUPT)   |
| 180     | (B4) | UNSIGNED  | 2   | CPLSSEQOP  | SUBMIT SEQUENCE           |
| 180     | (B4) | CHARACTER | 2   | CPLISDOPF2 | SUBMIT SEQUENCE           |

| Offsets |      |           |     |            |                                                                                                                                                                                            |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                                                                                |
| 182     | (B6) | CHARACTER | 4   | CPLISDOPL4 | (WHEN JOB, STC OR WTO)                                                                                                                                                                     |
| 186     | (BA) | SIGNED    | 4   | CPLISTOP   | TIME   0                                                                                                                                                                                   |
| 190     | (BE) | CHARACTER | 10  | CPLAEOP    | ACTUAL END                                                                                                                                                                                 |
| 190     | (BE) | CHARACTER | 6   | CPLAEDOP   | DATE   BLANK                                                                                                                                                                               |
| 196     | (C4) | SIGNED    | 4   | CPLAETOP   | DATE   0                                                                                                                                                                                   |
| 200     | (C8) | SIGNED    | 4   | CPLEDUOP   | ESTIMATED DURATION                                                                                                                                                                         |
| 204     | (CC) | UNSIGNED  | 4   | CPLADUOP   | ACTUAL DURATION                                                                                                                                                                            |
| 208     | (D0) | SIGNED    | 2   | CPLOPIRET  | ask opinfo retry counter                                                                                                                                                                   |
| 210     | (D2) | SIGNED    | 2   | CPLPSOP    | PARALLEL SERVERS REQUIRED                                                                                                                                                                  |
| 212     | (D4) | SIGNED    | 2   | CPLR1OP    | WS RESOURCES REQUIRED                                                                                                                                                                      |
| 214     | (D6) | SIGNED    | 2   | CPLR2OP    | WS RESOURCES REQUIRED                                                                                                                                                                      |
| 216     | (D8) | CHARACTER | 1   | CPLCSTOP   | CURRENT STATE<br>W - WAITING<br>A - WAITING FOR ARRIVAL<br>R - READY<br>* - READY PREV WS NONREP<br>S - STARTED<br>I - INTERRUPTED<br>U - UNDECIDED<br>C - COMPLETED<br>E - ENDED IN ERROR |
| 217     | (D9) | CHARACTER | 4   | CPLERROP   | ERROR CODE                                                                                                                                                                                 |
| 221     | (DD) | CHARACTER | 1   | CPLAECOP   | AUTOM. ERROR COMPL.(YES NO)                                                                                                                                                                |
| 222     | (DE) | CHARACTER | 1   | CPLPRIOP   | PRIORITY                                                                                                                                                                                   |
| 223     | (DF) | CHARACTER | 1   | CPLXSTOP   | EXTENDED STATUS                                                                                                                                                                            |
| 224     | (E0) | SIGNED    | 2   | CPLERKOP   | INDEX TO ERROR RECORD   0                                                                                                                                                                  |
| 226     | (E2) | SIGNED    | 2   | CPLEROOP   | OFFSET IN ERROR RECORD   0                                                                                                                                                                 |
| 228     | (E4) | SIGNED    | 2   | CPLSUOP    | NUMBER OF SUCCESSORS                                                                                                                                                                       |

| Offsets |      |           |     |            |                                                                          |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                              |
| 230     | (E6) | SIGNED    | 2   | CPLPROP    | NUMBER OF PREDECESSORS                                                   |
| 232     | (E8) | SIGNED    | 2   | CPLDEOP    | NUMBER OF SUCCESSORS AND PREDECESSORS                                    |
| 234     | (EA) | SIGNED    | 2   | CPLPCOP    | NUMBER OF PREDECESSORS COMPLETED                                         |
| 236     | (EC) | SIGNED    | 2   | CPLSROP    | NO. OF SPECIAL RESOURCES                                                 |
| 238     | (EE) | BITSTRING | 1   | CPLFLGOP   | FLAGS                                                                    |
|         |      | 1... .... |     | CPLREROP   | RERUN RECORD FOR THIS OP                                                 |
|         |      | .1.. .... |     | CPLXTOP    | ON=VALIDATION EXIT PASSED                                                |
|         |      | ..1. .... |     | CPLASSOP   | ON=OP. ASSUMED COMPLETED                                                 |
|         |      | ...1 .... |     | CPLSPIA    | ON=SPECIFIED IA FOR OP                                                   |
|         |      | .... 1... |     | CPLSPDL    | ON=SPECIFIED DL FOR OP                                                   |
|         |      | .... .1.. |     | CPLASUOP   | ON=AUTO SUBMISSION OF JOB                                                |
|         |      | .... ..1. |     | CPLAJR     | ON=AUTO HOLDRELEASE                                                      |
|         |      | .... ...1 |     | CPLLATEP   | ON=LATE OP MSG ISSUED                                                    |
| 239     | (EF) | BITSTRING | 1   | CPLFLGO2   | FLAGS                                                                    |
|         |      | 1... .... |     | CPLSUBOP   | ON=JOB SUBMITTED                                                         |
|         |      | .1.. .... |     | CPLTJTOP   | ON=TIME JOB                                                              |
|         |      | ..1. .... |     | CPLPRPOP   | ON=PREP WS EXISTS FOR THIS .. CPU, BUT OP IS .. NOT COMPLETE             |
|         |      | ...1 .... |     | CPLRELOP   | ON=RELEASE AS SOON AS POSS.                                              |
|         |      | .... 1... |     | CPL2EVOP   | ON=TYPE 2 EVENT READ                                                     |
|         |      | .... .1.. |     | CPLHRUOP   | ON=HIGH RETCODE USED                                                     |
|         |      | .... ..1. |     | CPLPENDP   | A PENDING PREDECESSOR                                                    |
|         |      | .... ...1 |     | CPLLONGP   | ON=LONG DUR MS ISSUED                                                    |
| 240     | (F0) | CHARACTER | 8   | CPLMCPUP   | TIME OF LAST MCP UPDATE                                                  |
| 248     | (F8) | CHARACTER | 1   | CPLDEPTOP  | DEPENDEN TYPE (P S R T) R - conditional predeces T - conditional success |
| 249     | (F9) | BITSTRING | 1   | CPLFLGO3   | 3rd flag byte                                                            |

| Offsets |       |           |     |              |                                                                                             |
|---------|-------|-----------|-----|--------------|---------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description                                                                                 |
|         |       | 1... ..   |     | CPLRESTA     | restartable operation                                                                       |
|         |       | .1... ..  |     | CPLDIRES     | inst parm restart                                                                           |
|         |       | ..1. .... |     | CPLRERUT     | rerouteable operation                                                                       |
|         |       | ...1 .... |     | CPLDIRER     | inst parm reroute                                                                           |
|         |       | .... 1... |     | CPLWRER      | op WAS rerouted                                                                             |
|         |       | .... .1.. |     | CPLDWTO      | DEADLINE WTO WANTED                                                                         |
|         |       | .... ..1. |     | CPLDWTOS     | DEADLINE WTO REQ SENT                                                                       |
|         |       | .... ...1 |     | CPLDWTOP     | DEADLINE WTO REQ PROC                                                                       |
| 250     | (FA)  | UNSIGNED  | 2   | CPLHRCOP     | HIGHEST RETCODE NOT IN ERR                                                                  |
| 252     | (FC)  | SIGNED    | 2   | CPLTMPPOP    | temporary save area                                                                         |
| 254     | (FE)  | CHARACTER | 4   | CPLALTWS     | Alternate WS name                                                                           |
| 258     | (102) | SIGNED    | 2   | CPLMXLVL     | Max nesting level                                                                           |
| 258     | (102) | SIGNED    | 2   | CPLMPREDOPNO | - used only by ISPF dialogue to pass info in GETL,MSUCC buffer                              |
| 260     | (104) | CHARACTER | 16  | CPLUDATA     | User field                                                                                  |
| 276     | (114) | BITSTRING | 1   | CPLFLAG05    | more flags                                                                                  |
|         |       | 1... ..   |     | CPLMORERUN   | 0 = First run 1 = At least 1 run set by AB3P event                                          |
|         |       | .1... ..  |     | CPLJLINFO    | 0 = JLInfo to be req. 1 = JLInfo requested. Set by AB3P event; reset when JLInfo requested. |
|         |       | ..1. .... |     | CPLOPINFO    | 0 = last OPerInfo not available 1 = last OPerInfo available                                 |
|         |       | ...1 .... |     | CPLPSUDONE   | 0 = PSU not compl. 1 = PSU completed                                                        |
|         |       | .... 1... |     | CPLUSERSYS   | 1 = need user sysout                                                                        |
|         |       | .... .1.. |     | CPLIMMERR    | 1 = imm from error state (set by A3P if error status)                                       |
|         |       | .... ..1. |     | CPLSYSSFAIL  | jes sub failed                                                                              |
|         |       | .... ...1 |     | CPLXPJCL     | need Expanded JCL                                                                           |

| Offsets |       |            |     |               |                                                                                                                                                  |
|---------|-------|------------|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type       | Len | Name (Dim)    | Description                                                                                                                                      |
| 277     | (115) | CHARACTER  | 1   | CPLJRSTAT     | Joblog retrieval status ' ' = no action yet 'I' = initiated 'R' = Reinitiated 'S' = started (j0-evt) 'C' = complete(j2-evt) 'E' = error (j2-evt) |
| 278     | (116) | CHARACTER  | 2   | CPLWLM        | WLM fields                                                                                                                                       |
| 278     | (116) | CHARACTER  | 1   | CPLJOBCRT     | Critical Job                                                                                                                                     |
| 279     | (117) | CHARACTER  | 1   | CPLJOBPOL     | Late Job Policy                                                                                                                                  |
| 280     | (118) | CHARACTER  | 8   | CPLTOKEN_FULL | operation full token                                                                                                                             |
| 280     | (118) | CHARACTER  | 4   | CPLTOKEN_PRE  | prefix                                                                                                                                           |
| 284     | (11C) | UNSIGNED   | 4   | CPLTOKEN      | opctoken                                                                                                                                         |
| 288     | (120) | CHARACTER  | 8   | CPLEXDEST     | Execution dest                                                                                                                                   |
| 296     | (128) | SIGNED     | 2   | CPLASIDJOB    | OPC ASID D63a                                                                                                                                    |
| 298     | (12A) | CHARACTER  | 1   | CPLCLNTYP     | Clean up Type= A = automatic, I = immediate, M = manual, N = none                                                                                |
| 299     | (12B) | CHARACTER  | 1   | CPLTWSJOB     | Y,S only in Sym,N                                                                                                                                |
| 300     | (12C) | CHARACTER  | 8   | CPLSTCH       | status was changed                                                                                                                               |
| 300     | (12C) | CHARACTER  | 4   | CPLSTCHD      | yydddF                                                                                                                                           |
| 304     | (130) | CHARACTER  | 4   | CPLSTCHT      | hhmmsssth                                                                                                                                        |
| 308     | (134) | CHARACTER  | 8   | CPLUSEROP     | last update user-id                                                                                                                              |
| 316     | (13C) | CHARACTER  | 8   | CPLJLODEST    | Job Log destination                                                                                                                              |
| 324     | (144) | CHARACTER  | 4   | CPLPSUTOKEN   | PSU request token                                                                                                                                |
| 328     | (148) | UNSIGNED   | 1   | CPLOPEX03P    | Operation num extension                                                                                                                          |
| 329     | (149) | CHARACTER  | 1   | CPLCLNRES     | clean up result                                                                                                                                  |
| 330     | (14A) | CHARACTER  | 1   | CPLCLNDIA     | clean up from Dialog                                                                                                                             |
| 331     | (14B) | CHARACTER  | 8   | CPLEQQCLJID   | last EQQCLEAN jobid                                                                                                                              |
| 331     | (14B) | CHARACTER  | 8   | CPLSUBTOKEN   | HTTP job submission token                                                                                                                        |
| 339     | (153) | CHARACTER  | 1   | CPLFLAG06     | free to use                                                                                                                                      |
|         |       | 1... ....  |     | CPLMONP       | oper monitoring flag                                                                                                                             |
|         |       | .1... .... |     | CPLEXPJCLOSED | last run used expanded                                                                                                                           |

| Offsets |       |            |     |             |                                                    |
|---------|-------|------------|-----|-------------|----------------------------------------------------|
| Dec     | Hex   | Type       | Len | Name (Dim)  | Description                                        |
|         |       | ...1. .... |     | CPLSENDING  | on=S-sending exstat                                |
|         |       | ...1 ....  |     | CPLSUBER    | on=E-OSUF exstat                                   |
|         |       | .... 1...  |     | CPLERFAIL   | on=E-FAIL exstat                                   |
|         |       | .... .1..  |     | CPLRECPRMP  | on=E-prmpt exstat                                  |
|         |       | .... ..1.  |     | CPLRECJOB   | on=E rec job running                               |
|         |       | .... ...1  |     | CPLRECRUN   | on=E(R,S,C) not restart                            |
| 340     | (154) | CHARACTER  | 8   | CPLEQQCLJBN | last EQQCLEAN jobname                              |
| 340     | (154) | CHARACTER  | 8   | CPLDOATIME  | time the op was started                            |
| 348     | (15C) | CHARACTER  | 1   | CPLFLAG07   |                                                    |
|         |       | 1... ....  |     | CPLREC24IS  | CP24 exists                                        |
|         |       | .1.. ....  |     | CPLRECEAD   | op. completed by continue recovery action          |
|         |       | ..1. ....  |     | CPLSCRIPT   | centralized script used                            |
|         |       | ...1 ....  |     | CPLFROMPLC  | on = from PLC                                      |
|         |       | .... 1...  |     | CPLWASUJ    | on = from WASUJ                                    |
|         |       | .... .1..  |     | CPLWAITSE   | on = wait SE                                       |
|         |       | .... ..1.  |     | CPLWAITWQA  | on = wait WS delay                                 |
|         |       | .... ...1  |     | CPLURGMSG   | on = URG msg issued                                |
| 349     | (15D) | UNSIGNED   | 1   | CPLEXTINF   | Extended info area 0 = not allocated 1 = allocated |
| 350     | (15E) | CHARACTER  | 1   | CPLTWSJBNM  | criterion used to build the IWS jobname in sym     |
| 351     | (15F) | CHARACTER  | 1   | CPLAUTINF   | 26CBOGc N = not allocated Y = allocated            |
| 352     | (160) | SIGNED     | 4   | CPLFTWRC    | RC oper running on FTW                             |
| 356     | (164) | CHARACTER  | 8   | CPLRUSER    | RACF user from EQQUX001                            |
| 364     | (16C) | SIGNED     | 2   | CPL3PSPLEX  | sysplex id                                         |
| 366     | (16E) | CHARACTER  | 1   | CPLFLAG08   |                                                    |
|         |       | 1... ....  |     | CPLWLMPROM  | WLM failure msg flag                               |
|         |       | .1.. ....  |     | CPLWLMMSG   | WLM promotion flag                                 |

| Offsets |       |            |     |               |                                                               |
|---------|-------|------------|-----|---------------|---------------------------------------------------------------|
| Dec     | Hex   | Type       | Len | Name (Dim)    | Description                                                   |
|         |       | ...1. .... |     | CPLFTSANOP    | job nopped on standard agent hosted by master                 |
|         |       | ...1. .... |     | CPLCRITJOBPRE | Critical predecessor                                          |
|         |       | .... 1...  |     | CPLDPREM      | on = recovered by cond                                        |
|         |       | .... .1..  |     | CPLTZONE      | on = TZONE applied                                            |
|         |       | .... ..1.  |     | CPLCONDRJOB   | on = cond recovery job                                        |
|         |       | .... ...1  |     | CPLNOEVAL     | on = do not eval cond succ                                    |
| 367     | (16F) | BITSTRING  | 1   | CPLFLAG09     |                                                               |
|         |       | 1... ....  |     | CPLSTEPDEP    | on = this 3p has conds with step dep                          |
|         |       | .1.. ....  |     | CPLSTEPSUCC   | on = this 3p has at least 1 csuc with step dep pointing to it |
|         |       | ..1. ....  |     | CPLZCENTRIC   | on = job on z-centric                                         |
|         |       | ...1. .... |     | CPLRECOVON    | on = recov set (not saved)                                    |
|         |       | .... 1...  |     | CPLNOERR      | on = NOERROR occurred                                         |
|         |       | .... .1..  |     | CPLUNEXPRC    | on = unexpected RC occur                                      |
|         |       | .... ..1.  |     | CPLFAKESUB    |                                                               |
|         |       | .... ...1  |     | CPLSHADOW     | on = shadow job                                               |
| 368     | (170) | CHARACTER  | 8   | CPLWLMCLASS   | WLM Service Class                                             |
| 376     | (178) | SIGNED     | 4   | CPLCRITPATH   | Critical Path indicator for internal processing               |
| 380     | (17C) | SIGNED     | 4   | CPLEARE       | Earliest End for internal processing                          |
| 384     | (180) | CHARACTER  | 4   | CPLCRTPTHX    | Critical Path Origin Key                                      |
| 384     | (180) | UNSIGNED   | 3   | CPLPTHOC      | Occ. Number                                                   |
| 387     | (183) | UNSIGNED   | 1   | CPLPTHOP      | Operation Number                                              |
| 388     | (184) | CHARACTER  | 2   | CPLJESDEST    | Destination for multiple datastore                            |
| 390     | (186) | CHARACTER  | 8   | CPLVDEST      | last used Virtual Dest                                        |
| 398     | (18E) | SIGNED     | 2   | CPLTZOFF      | TZOFF in mins                                                 |
| 400     | (190) | UNSIGNED   | 4   | CPLJOBTLIDX   | Job Table index                                               |
| 404     | (194) | SIGNED     | 2   | CPLCPROP      | NUMBER OF COND PRED                                           |

| Offsets |       |           |     |              |                                                                                      |
|---------|-------|-----------|-----|--------------|--------------------------------------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description                                                                          |
| 406     | (196) | SIGNED    | 2   | CPLCSUOP     | NUMBER OF COND SUCC                                                                  |
| 408     | (198) | SIGNED    | 2   | CPLCONDTOT   | NUMBER OF CONDS T F U D                                                              |
| 410     | (19A) | SIGNED    | 2   | CPLCOND_T    | NUMBER OF CONDS TRUE                                                                 |
| 412     | (19C) | SIGNED    | 2   | CPLCOND_F    | NUMBER OF CONDS FALSE                                                                |
| 414     | (19E) | SIGNED    | 2   | CPLCOND_U    | NUMBER OF CONDS UNDEFINED                                                            |
| 416     | (1A0) | SIGNED    | 2   | CPLCDEOP     | NUMBER OF COND DEP                                                                   |
| 418     | (1A2) | SIGNED    | 2   | CPLPXOP      | NUMBER OF PREDECESSORS DUMMY COMPLETED                                               |
| 420     | (1A4) | CHARACTER | 4   | CPLORIGRC    | job RC before emerh                                                                  |
| 424     | (1A8) | SIGNED    | 2   | CPLCONDID    | Cond id - Never stored, only used by GS to return extra info                         |
| 426     | (1AA) | UNSIGNED  | 1   | CPLRENGINF   | Remote engine job area                                                               |
| 427     | (1AB) | CHARACTER | 1   | CPLREJST     | Remote eng job substatus                                                             |
| 428     | (1AC) | SIGNED    | 2   | CPLBND       | num of bind requests                                                                 |
| 430     | (1AE) | BITSTRING | 1   | CPLFLAG10    |                                                                                      |
|         |       | 1... ..   |     | CPLDYN       | on = this 3p has conds                                                               |
|         |       | .1.. ..   |     | CPLDRECOV    | on=recovery in progress                                                              |
|         |       | ..1. .... |     | CPLSHOSEQ    | on=shadow in oseq                                                                    |
|         |       | ...1 .... |     | CPLMVDEADL   | on=move deadl                                                                        |
|         |       | .... 1... |     | CPLEXIT13RC  | on=rc 12 from exit13                                                                 |
|         |       | .... .1.. |     | CPLNOERRJT   | NOERROR match JT                                                                     |
|         |       | .... ..1. |     | CPLNOERRSKIP | NOERROR Skip A3S in reapp                                                            |
|         |       | .... ...1 |     | CPLMPENDP    | Used only by ISPF, PIF dialog to pass info in GETL, DEPC buffer                      |
| 431     | (1AF) | CHARACTER | 1   | CPLTASKTYPE  | plug-in task type                                                                    |
| 432     | (1B0) | BITSTRING | 1   | CPLFLAG11    |                                                                                      |
|         |       | 1... ..   |     | CPLMPPEND    | on if pend or mpend pred - used only by ISPF, PIF dialog to pass info in GETL buffer |
|         |       | .1.. .... |     | CPLSTARTED   | on = started at startup                                                              |



| Offsets |       |            |     |               |                                                                                                                                                                            |
|---------|-------|------------|-----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type       | Len | Name (Dim)    | Description                                                                                                                                                                |
|         |       | ...1. .... |     | CPLSUSP       | on = suspended execution                                                                                                                                                   |
|         |       | ...1 ....  |     | CPLTOARCH     | to be archived in DB2                                                                                                                                                      |
|         |       | .... 1...  |     | CPLNEWLATE    | user-defined late                                                                                                                                                          |
|         |       | .... .1..  |     | CPLMOVEDL     | moved to deadline                                                                                                                                                          |
|         |       | .... ..1.  |     | CPLELATE      | either late, alert, action used only by ISPF, PIF dialogs to pass info in GETL buffer                                                                                      |
|         |       | .... ...1  |     | *             | free                                                                                                                                                                       |
| 433     | (1B1) | BITSTRING  | 1   | CPLFLAG12     |                                                                                                                                                                            |
|         |       | 1... ....  |     | CPLNEWDL      | on: msg Deadline issued                                                                                                                                                    |
|         |       | .1.. ....  |     | CPLNEWL1      | on: msg L1 started                                                                                                                                                         |
|         |       | .1. ....   |     | CPLNEWL2      | on: msg L2 issued                                                                                                                                                          |
|         |       | ...1 ....  |     | *             | free                                                                                                                                                                       |
| 434     | (1B2) | CHARACTER  | 2   | *             | Added to make fix part multiple of 4. This because DDICT declare EXT3P as a subfield of a structure having a string of char with length = CP3p fix part len as first field |
| 436     | (1B4) | CHARACTER  | 8   | CPLOPRRUNC    | run cycle for est. dur.                                                                                                                                                    |
| 444     | (1BC) | UNSIGNED   | 4   | CPLOPRDURVAR  | duration variance                                                                                                                                                          |
| 448     | (1C0) | UNSIGNED   | 4   | CPLOPRPSTAVAR | planned start variance                                                                                                                                                     |
| 452     | (1C4) | UNSIGNED   | 4   | CPLOPRPENDVAR | planned end variance                                                                                                                                                       |
| 456     | (1C8) | CHARACTER  | 8   | CPL3PTOD      | not used                                                                                                                                                                   |
| 464     | (1D0) | CHARACTER  | 11  | CPL3PORIGDL   | original deadline                                                                                                                                                          |
| 464     | (1D0) | CHARACTER  | 6   | CPL3PORIGDLD  | original DL date                                                                                                                                                           |
| 470     | (1D6) | CHARACTER  | 4   | CPL3PORIGDLT  | original DL time                                                                                                                                                           |
| 474     | (1DA) | CHARACTER  | 1   | CPL3PORIGDLA  | original DL action                                                                                                                                                         |
| 475     | (1DB) | UNSIGNED   | 1   | CPLLATEINF    | 1: late info is present                                                                                                                                                    |
| 476     | (1DC) | CHARACTER  | *   | CPLVAR03      | VAR DATA                                                                                                                                                                   |

| Offsets |       |           |     |            |             |
|---------|-------|-----------|-----|------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description |
| 476     | (1DC) | CHARACTER | *   | CPLVAR03   | VAR DATA    |

## PREDECESSOR INFORMATION

| Offsets |     |           |     |              |                                                                                                    |
|---------|-----|-----------|-----|--------------|----------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                                                                                        |
| 0       | (0) | STRUCTURE | 12  | CPLPREOP (*) |                                                                                                    |
| 0       | (0) | CHARACTER | 1   | CPLPSWOP     | PREDECESSOR SWITCHES                                                                               |
|         |     | 1... ..   |     | CPLPCOOP     | PREDECESSOR COMPLETED                                                                              |
|         |     | .1... ..  |     | CPLPNROP     | PRED. WS WAS NON-REPORTING                                                                         |
|         |     | ..1. .... |     | CPLPNDOP     | PENDING PRED OCCURRENCE                                                                            |
|         |     | ...1 .... |     | CPLCRITPRED  | Critical Path indicator for internal processing                                                    |
|         |     | .... 1... |     | CPLPMANDPEND | on is a mandatory pend.                                                                            |
|         |     | .... .111 |     | *            | RESERVED                                                                                           |
| 1       | (1) | CHARACTER | 1   | CPLPMATC     | Originating matching criteria - C closest preceding - S same day - A absolute IVL - R relative IVL |
| 2       | (2) | SIGNED    | 2   | CPLPTTOP     | TRANSPORT TIME                                                                                     |
| 2       | (1) | UNSIGNED  | 1   | CPLPTTOPO    |                                                                                                    |
| 3       | (1) | UNSIGNED  | 1   | CPLPTTOPORIG | ORIG OPER                                                                                          |
| 4       | (4) | CHARACTER | 4   | CPLPOP       | PREDECESSOR OP'S KEY IN CP                                                                         |
| 4       | (4) | UNSIGNED  | 3   | CPLPOCOP     | OCCURRENCE INDEX                                                                                   |
| 7       | (7) | UNSIGNED  | 1   | CPLPOPOP     | OPERATION NO.                                                                                      |
| 8       | (8) | CHARACTER | 4   | CPLPMATCIVL  | resolution criteria IVL                                                                            |
| 8       | (8) | SIGNED    | 2   | CPLPIVLLEFT  | - left side - min value -32500 means no left side                                                  |
| 10      | (A) | SIGNED    | 2   | CPLPIVLRIGHT | - right side - min value 0 means same IA                                                           |

## SUCCESSOR INFORMATION

| Offsets |     |           |     |              |                          |
|---------|-----|-----------|-----|--------------|--------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description              |
| 0       | (0) | STRUCTURE | 6   | CPLSUCOP (*) |                          |
| 0       | (0) | CHARACTER | 1   | CPLSSWOP     | SUCCESSOR SWITCHES       |
|         |     | 1... ..   |     | CPLSCROP     | CRITICAL PATH SUCCESSOR  |
|         |     | .111 1111 |     | *            | RESERVED                 |
| 1       | (1) | CHARACTER | 1   | *            | RESERVED                 |
| 2       | (2) | CHARACTER | 4   | CPLSOP       | SUCCESSOR OP'S KEY IN CP |
| 2       | (2) | UNSIGNED  | 3   | CPLSOCOP     | OCCURRENCE INDEX         |
| 5       | (5) | UNSIGNED  | 1   | CPLSOPOP     | OPERATION NUMBER         |

## SPECIAL RESOURCES

| Offsets |      |           |     |               |                           |
|---------|------|-----------|-----|---------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description               |
| 0       | (0)  | STRUCTURE | 68  | CPLSR SOP (*) |                           |
| 0       | (0)  | CHARACTER | 44  | CPLSRNOP      | NAME OF SPECIAL RESOURCE  |
| 44      | (2C) | CHARACTER | 1   | CPLSR TOP     | S = SHARED, X = EXCLUSIVE |
| 45      | (2D) | BITSTRING | 1   | *             | flags                     |
|         |      | 1... ..   |     | CPLSRVOP      | available                 |
|         |      | .1.. ..   |     | CPLSR IUSOP   | in use shared             |
|         |      | ..1. .... |     | CPLSR IUXOP   | in use exclusively        |
|         |      | ...1 .... |     | CPLSR KEPT    | was kept at error         |
|         |      | .... 1... |     | CPLSR KEPTX   | in exclusive use          |
|         |      | .... .1.. |     | CPLRESCNEW    | Q515W msg issued          |
|         |      | .... ..11 |     | *             | reserved                  |
| 46      | (2E) | CHARACTER | 1   | CPLSRERR      | on error flag             |

| Offsets |      |           |     |            |                                              |
|---------|------|-----------|-----|------------|----------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                  |
| 47      | (2F) | UNSIGNED  | 1   | CPLSRWRS   | reason for wait                              |
| 48      | (30) | SIGNED    | 4   | CPLSRNUM   | amount                                       |
| 52      | (34) | SIGNED    | 4   | CPLSRIDX   | resource index id                            |
| 56      | (38) | CHARACTER | 8   | CPLALCTIME | allocation time                              |
| 64      | (40) | CHARACTER | 1   | CPLSRVACO  | Set SR availability to NO Y , N , R or blank |
| 65      | (41) | CHARACTER | 3   | *          | free                                         |

## EXTENDED INFORMATION

| Offsets |      |           |     |              |                      |
|---------|------|-----------|-----|--------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description          |
| 0       | (0)  | STRUCTURE | 200 | CPL3PEXTINFO |                      |
| 0       | (0)  | CHARACTER | 54  | CPL3PEXTNAME | Extended Job Name    |
| 54      | (36) | CHARACTER | 16  | CPL3PSENAME  | Scheduling Env. Name |
| 70      | (46) | CHARACTER | 130 | *            | free                 |

## CONDITIONAL PREDECESSOR

| Offsets |     |           |     |               |                                          |
|---------|-----|-----------|-----|---------------|------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description                              |
| 0       | (0) | STRUCTURE | 8   | CPLCPREOP (*) |                                          |
| 0       | (0) | BITSTRING | 1   | CPLCPSWOP     | flags                                    |
|         |     | 1... ..   |     | CPLCPNDOP     | pending cond pred occ                    |
|         |     | .1... ..  |     | CPLCPCOOP     | on = if external, CPRE not to be created |
|         |     | ..11 1111 |     | *             | free                                     |

| Offsets |     |           |     |             |                                                                                                    |
|---------|-----|-----------|-----|-------------|----------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                                                                                        |
| 1       | (1) | CHARACTER | 1   | CPLCPMATC   | Originating matching criteria - C closest preceding - S same day - A absolute IVL - R relative IVL |
| 2       | (2) | SIGNED    | 2   | CPLCPOP_CID | Cond id                                                                                            |
| 4       | (4) | CHARACTER | 4   | CPLCPOP     | Operation VSAM key                                                                                 |
| 4       | (4) | UNSIGNED  | 3   | CPLCPOCOP   | - Occ Number                                                                                       |
| 7       | (7) | UNSIGNED  | 1   | CPLCPOPOP   | - Opr Number                                                                                       |

## CONDITIONAL SUCCESSOR

| Offsets |     |           |     |               |                                                  |
|---------|-----|-----------|-----|---------------|--------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description                                      |
| 0       | (0) | STRUCTURE | 8   | CPLCSUCOP (*) |                                                  |
| 0       | (0) | BITSTRING | 1   | CPLCSSWOP     | flags                                            |
| 1       | (1) | BITSTRING | 1   | CPLCSUFLAG    |                                                  |
|         |     | 1... ..   |     | CPLCSUSTEP    | on = cond succ with step dep pointing to this 3p |
|         |     | .111 1111 |     | *             | free                                             |
| 2       | (2) | SIGNED    | 2   | CPLCSOP_CID   | Cond id                                          |
| 4       | (4) | CHARACTER | 4   | CPLCSOP       | Operatiob VSAM key                               |
| 4       | (4) | UNSIGNED  | 3   | CPLCSOCOP     | - Occ Number                                     |
| 7       | (7) | UNSIGNED  | 1   | CPLCSOPOP     | - Opr Number                                     |

## EXTENDED INFORMATION

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 200 | CPLRENG    |             |

| Offsets |      |           |     |                       |                           |
|---------|------|-----------|-----|-----------------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)            | Description               |
| 0       | (0)  | CHARACTER | 16  | CPLRENG_JSNAME        | ad id                     |
| 16      | (10) | CHARACTER | 40  | CPLRENG_JOBNAME       | job name IWSd             |
| 16      | (10) | CHARACTER | 8   | CPLRENG_ZJOB          | matched job name IWSz     |
| 56      | (38) | CHARACTER | 16  | CPLRENG_JAWS          | jobstream ws IWSd         |
| 56      | (38) | CHARACTER | 4   | CPLRENG_ZWS           | matched workstation IWSz  |
| 72      | (48) | CHARACTER | 3   | CPLRENG_OPNO          | operation number IWSz     |
| 75      | (4B) | BITSTRING | 1   | CPLRENG_FLAGS         |                           |
|         |      | 1... ..   |     | CPLRENG_COMP          | complete on bind err      |
|         |      | .111 1111 |     | *                     | free                      |
| 76      | (4C) | CHARACTER | 10  | CPLRENG_IA            | matched input arrival     |
| 76      | (4C) | CHARACTER | 6   | CPLRENG_IAD           | date                      |
| 82      | (52) | CHARACTER | 4   | CPLRENG_IAT           | time                      |
| 82      | (52) | CHARACTER | 2   | CPLRENG_IATH          | HH                        |
| 84      | (54) | CHARACTER | 2   | CPLRENG_IATM          | MM                        |
| 86      | (56) | CHARACTER | 80  | CPLRENG_JSFOLDERSHORT | job stream short folder   |
| 166     | (A6) | CHARACTER | 16  | CPLRENG_JSFOLDERID    | job stream long folder ID |
| 182     | (B6) | CHARACTER | 18  | *                     | free                      |

## BIND REQUESTS INFORMATION

| Offsets |     |           |     |              |             |
|---------|-----|-----------|-----|--------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description |
| 0       | (0) | STRUCTURE | 16  | CPLBNDOP (*) |             |
| 0       | (0) | CHARACTER | 8   | CPLBND99K    | XD99 KEY    |
| 8       | (8) | BITSTRING | 1   | CPLBNDFLAG   |             |
|         |     | 1... ..   |     | CPLBNDDDEL   |             |
|         |     | .111 1111 |     | *            |             |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 9       | (9) | CHARACTER | 7   | *          |             |

## USER-DEFINED LATE INFO

| Offsets |      |           |     |              |                        |
|---------|------|-----------|-----|--------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description            |
| 0       | (0)  | STRUCTURE | 28  | CPLLATE      |                        |
| 0       | (0)  | CHARACTER | 13  | CPLLATE1     | not started alert      |
| 0       | (0)  | CHARACTER | 1   | CPLLATE1BASE | base date: always F    |
| 1       | (1)  | CHARACTER | 1   | CPLLATE1DIR  | direction A: after IA  |
| 2       | (2)  | CHARACTER | 1   | CPLLATE1ACT  | not used               |
| 3       | (3)  | CHARACTER | 10  | CPLLATE1DATE | date and time          |
| 3       | (3)  | CHARACTER | 6   | CPLLATE1D    | not started alert date |
| 9       | (9)  | CHARACTER | 4   | CPLLATE1T    | not started alert time |
| 13      | (D)  | CHARACTER | 13  | CPLLATE2     | not started action     |
| 13      | (D)  | CHARACTER | 1   | CPLLATE2BASE | base date: always F    |
| 14      | (E)  | CHARACTER | 1   | CPLLATE2DIR  | direction A: after IA  |
| 15      | (F)  | CHARACTER | 1   | CPLLATE2ACT  | not used               |
| 16      | (10) | CHARACTER | 10  | CPLLATE2DATE | date and time          |
| 16      | (10) | CHARACTER | 6   | CPLLATE2D    | not started alert date |
| 22      | (16) | CHARACTER | 4   | CPLLATE2T    | not started alert time |
| 26      | (1A) | CHARACTER | 2   | *            | free                   |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLBND    | 1AC        |           | 4     |
| CPLCDEOP  | 1A0        |           | 4     |
| CPLCOND_F | 19C        |           | 4     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLCOND_T  | 19A        |           | 4     |
| CPLCOND_U  | 19E        |           | 4     |
| CPLCONDTOT | 198        |           | 4     |
| CPLCPROP   | 194        |           | 4     |
| CPLCSUOP   | 196        |           | 4     |
| CPLDEOP    | E8         |           | 4     |
| CPLPCOP    | EA         |           | 4     |
| CPLPROP    | E6         |           | 4     |
| CPLPSOP    | D2         |           | 4     |
| CPLPXOP    | 1A2        |           | 4     |
| CPLR1OP    | D4         |           | 4     |
| CPLR2OP    | D6         |           | 4     |
| CPLSROP    | EC         |           | 4     |
| CPLSUOP    | E4         |           | 4     |
| CPLAADOP   | AA         |           | 5     |
| CPLAAOP    | AA         |           | 4     |
| CPLAATOP   | B0         |           | 5     |
| CPLADIOP   | 1A         |           | 4     |
| CPLADUOP   | CC         |           | 4     |
| CPLAECOP   | DD         |           | 4     |
| CPLAEDOP   | BE         |           | 5     |
| CPLAEOP    | BE         |           | 4     |
| CPLAETOP   | C4         |           | 5     |
| CPLAJR     | EE         | 02        | 5     |
| CPLALCTIME | 38         |           | 2     |
| CPLALTWS   | FE         |           | 4     |
| CPLASDOP   | A0         |           | 5     |
| CPLASIDJOB | 128        |           | 4     |



| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| CPLASOP     | A0         |           | 4     |
| CPLASSOP    | EE         | 20        | 5     |
| CPLASTOP    | A6         |           | 5     |
| CPLASUOP    | EE         | 04        | 5     |
| CPLAUTINF   | 15F        |           | 4     |
| CPLBDYOP    | C          |           | 3     |
| CPLBNDDEL   | 8          | 80        | 3     |
| CPLBNDFLAG  | 8          |           | 2     |
| CPLBNDOP    | 0          |           | 1     |
| CPLBND99K   | 0          |           | 2     |
| CPLCLNCM    | 65         | 02        | 5     |
| CPLCLNDIA   | 14A        |           | 4     |
| CPLCLNRES   | 149        |           | 4     |
| CPLCLNSTAT  | 19         |           | 4     |
| CPLCLNTYP   | 12A        |           | 4     |
| CPLCOM3P    | 0          |           | 2     |
| CPLCONDID   | 1A8        |           | 4     |
| CPLCONDRJOB | 16E        | 02        | 5     |
| CPLCPCOOP   | 0          | 40        | 3     |
| CPLCPMATC   | 1          |           | 2     |
| CPLCPNDOP   | 0          | 80        | 3     |
| CPLCPOCOP   | 4          |           | 3     |
| CPLCPOP     | 4          |           | 2     |
| CPLCPOP_CID | 2          |           | 2     |
| CPLCPOPOP   | 7          |           | 3     |
| CPLCPREOP   | 0          |           | 1     |
| CPLCPSWOP   | 0          |           | 2     |
| CPLCP15REQ  | 65         | 20        | 5     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPLCRITJOBPRE | 16E        | 10        | 5     |
| CPLCRITPATH   | 178        |           | 4     |
| CPLCRITPRE    | 0          | 10        | 3     |
| CPLCRTPTHX    | 180        |           | 4     |
| CPLCSOCOP     | 4          |           | 3     |
| CPLCSOP       | 4          |           | 2     |
| CPLCSOP_CID   | 2          |           | 2     |
| CPLCSOPOP     | 7          |           | 3     |
| CPLCSSWOP     | 0          |           | 2     |
| CPLCSTOP      | D8         |           | 4     |
| CPLCSUCOP     | 0          |           | 1     |
| CPLCSUFLAG    | 1          |           | 2     |
| CPLCSUSTEP    | 1          | 80        | 3     |
| CPLDEFLT      | 65         | 80        | 5     |
| CPLDEPTOP     | F8         |           | 4     |
| CPLDIRER      | F9         | 10        | 5     |
| CPLDIRES      | F9         | 40        | 5     |
| CPLDOATIME    | 154        |           | 5     |
| CPLDPREM      | 16E        | 08        | 5     |
| CPLDRECOV     | 1AE        | 40        | 5     |
| CPLDWTO       | F9         | 04        | 5     |
| CPLDWTOP      | F9         | 01        | 5     |
| CPLDWTOS      | F9         | 02        | 5     |
| CPLDYN        | 1AE        | 80        | 5     |
| CPLEARE       | 17C        |           | 4     |
| CPLEDUOP      | C8         |           | 4     |
| CPLEQQCLJBN   | 154        |           | 4     |
| CPLEQQCLJID   | 14B        |           | 4     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLERFAIL    | 153        | 08        | 5     |
| CPLERKOP     | E0         |           | 4     |
| CPLEROOP     | E2         |           | 4     |
| CPLERROP     | D9         |           | 4     |
| CPLXDEST     | 120        |           | 4     |
| CPLXEC       | 65         | 04        | 5     |
| CPLXIT13RC   | 1AE        | 08        | 5     |
| CPLXPJCL     | 114        | 01        | 5     |
| CPLXPJCLUSED | 153        | 40        | 5     |
| CPLXTINF     | 15D        |           | 4     |
| CPLXTOP      | EE         | 40        | 5     |
| CPLEYE3P     | C          |           | 4     |
| CPLFAKESUB   | 16F        | 02        | 5     |
| CPLFLAG05    | 114        |           | 4     |
| CPLFLAG06    | 153        |           | 4     |
| CPLFLAG07    | 15C        |           | 4     |
| CPLFLAG08    | 16E        |           | 4     |
| CPLFLAG09    | 16F        |           | 4     |
| CPLFLAG10    | 1AE        |           | 4     |
| CPLFLAG11    | 1B0        |           | 4     |
| CPLFLG0P     | EE         |           | 4     |
| CPLFLG02     | EF         |           | 4     |
| CPLFLG03     | F9         |           | 4     |
| CPLFLG05     | 65         |           | 4     |
| CPLFRMOP     | 66         |           | 4     |
| CPLFROMPLC   | 15C        | 10        | 5     |
| CPLFTSANOP   | 16E        | 20        | 5     |
| CPLFTWRC     | 160        |           | 4     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPLGROUP3P    | 11         |           | 4     |
| CPLHRCOP      | FA         |           | 4     |
| CPLHRUOP      | EF         | 04        | 5     |
| CPLIADOP      | 2A         |           | 5     |
| CPLIAOP       | 2A         |           | 4     |
| CPLIATOP      | 30         |           | 5     |
| CPLIDOP       | 5E         |           | 4     |
| CPLIMMERR     | 114        | 04        | 5     |
| CPLISDOP      | B4         |           | 5     |
| CPLISDOPF2    | B4         |           | 7     |
| CPLISDOPL4    | B6         |           | 6     |
| CPLISOP       | B4         |           | 4     |
| CPLISTOP      | BA         |           | 5     |
| CPLJBNOP      | 4E         |           | 4     |
| CPLJCLOP      | 64         |           | 4     |
| CPLJESDEST    | 184        |           | 4     |
| CPLJIDOP      | 56         |           | 4     |
| CPLJIDOPN     | 5A         |           | 5     |
| CPLJIDOPP     | 56         |           | 5     |
| CPLJLINFO     | 114        | 40        | 5     |
| CPLJLODEST    | 13C        |           | 4     |
| CPLJOB CRT    | 116        |           | 5     |
| CPLJOB POL    | 117        |           | 5     |
| CPLJOB TBLIDX | 190        |           | 4     |
| CPLJRSTAT     | 115        |           | 4     |
| CPLKEYOP      | 0          |           | 3     |
| CPLKF03P      | 6          |           | 4     |
| CPLKYP3P      | 0          |           | 4     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLLATEP     | EE         | 01        | 5     |
| CPLLODOP     | 96         |           | 5     |
| CPLLONGP     | EF         | 01        | 5     |
| CPLLOOP      | 96         |           | 4     |
| CPLLOTOP     | 9C         |           | 5     |
| CPLUSEROP    | 134        |           | 4     |
| CPLMCPUP     | F0         |           | 4     |
| CPLMHLD      | 65         | 10        | 5     |
| CPLMONP      | 153        | 80        | 5     |
| CPLMORERUN   | 114        | 80        | 5     |
| CPLMPENDP    | 1AE        | 01        | 5     |
| CPLMPPEND    | 1B0        | 80        | 5     |
| CPLMPREDOPNO | 102        |           | 5     |
| CPLMVDEADL   | 1AE        | 10        | 5     |
| CPLMXLVL     | 102        |           | 4     |
| CPLNDXOP     | 2          |           | 4     |
| CPLNETOP     | 34         |           | 4     |
| CPLNOERR     | 16F        | 08        | 5     |
| CPLNOERRJT   | 1AE        | 04        | 5     |
| CPLNOERRSKIP | 1AE        | 02        | 5     |
| CPLNOEVAL    | 16E        | 01        | 5     |
| CPLNOP       | 65         | 08        | 5     |
| CPLNUMOP     | 62         |           | 5     |
| CPLOC03P     | 2          |           | 5     |
| CPLODDOP     | 8C         |           | 5     |
| CPLODOP      | 8C         |           | 4     |
| CPLODTOP     | 92         |           | 5     |
| CPLOIDOP     | 82         |           | 5     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLOIOP      | 82         |           | 4     |
| CPLOITOP     | 88         |           | 5     |
| CPLOPEX03P   | 148        |           | 4     |
| CPLOPINFO    | 114        | 20        | 5     |
| CPLOPIRET    | D0         |           | 4     |
| CPLOP03P     | 5          |           | 5     |
| CPLORIGRC    | 1A4        |           | 4     |
| CPLPCOOP     | 0          | 80        | 3     |
| CPLPEDOP     | 78         |           | 5     |
| CPLPENDP     | EF         | 02        | 5     |
| CPLPEOP      | 78         |           | 4     |
| CPLPETOP     | 7E         |           | 5     |
| CPLPIVLLEFT  | 8          |           | 3     |
| CPLPIVLRIGHT | A          |           | 3     |
| CPLPMANDPEND | 0          | 08        | 3     |
| CPLPMATC     | 1          |           | 2     |
| CPLPMATCIVL  | 8          |           | 2     |
| CPLPNDOP     | 0          | 20        | 3     |
| CPLPNROP     | 0          | 40        | 3     |
| CPLPOCOP     | 4          |           | 3     |
| CPLPOP       | 4          |           | 2     |
| CPLPOPOP     | 7          |           | 3     |
| CPLPREOP     | 0          |           | 1     |
| CPLPRIOP     | DE         |           | 4     |
| CPLPRPOP     | EF         | 20        | 5     |
| CPLPSDOP     | 6E         |           | 5     |
| CPLPSOP      | 6E         |           | 4     |
| CPLPSTOP     | 74         |           | 5     |

| Name                  | Hex Offset | Hex Value | Level |
|-----------------------|------------|-----------|-------|
| CPLPSUDONE            | 114        | 10        | 5     |
| CPLPSUTOKEN           | 144        |           | 4     |
| CPLPSUWAIT            | 65         | 40        | 5     |
| CPLPSWOP              | 0          |           | 2     |
| CPLPTHOC              | 180        |           | 5     |
| CPLPTHOP              | 183        |           | 5     |
| CPLPTTOP              | 2          |           | 2     |
| CPLRECEND             | 15C        | 40        | 5     |
| CPLRECJOB             | 153        | 02        | 5     |
| CPLRECOVON            | 16F        | 10        | 5     |
| CPLRECPRMP            | 153        | 04        | 5     |
| CPLRECRUN             | 153        | 01        | 5     |
| CPLREC24IS            | 15C        | 80        | 5     |
| CPLREC3P              | 0          |           | 1     |
| CPLREJST              | 1AB        |           | 4     |
| CPLRELOP              | EF         | 10        | 5     |
| CPLRENG               | 0          |           | 1     |
| CPLRENG_COMP          | 4B         | 80        | 3     |
| CPLRENG_FLAGS         | 4B         |           | 2     |
| CPLRENG_IA            | 4C         |           | 2     |
| CPLRENG_IAD           | 4C         |           | 3     |
| CPLRENG_IAT           | 52         |           | 3     |
| CPLRENG_IATH          | 52         |           | 4     |
| CPLRENG_IATM          | 54         |           | 4     |
| CPLRENG_JOBNAME       | 10         |           | 2     |
| CPLRENG_JSNAME        | 0          |           | 2     |
| CPLRENG_JSFOLDERSHORT | 56         |           | 5     |
| CPLRENG_JSFOLDERID    | A6         |           | 5     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLRENG_JSWS | 38         |           | 2     |
| CPLRENG_OPNO | 48         |           | 2     |
| CPLRENG_ZJOB | 10         |           | 3     |
| CPLRENG_ZWS  | 38         |           | 3     |
| CPLRENGINF   | 1AA        |           | 4     |
| CPLREROP     | EE         | 80        | 5     |
| CPLRERUT     | F9         | 20        | 5     |
| CPLRESCNEW   | 2D         | 04        | 3     |
| CPLRESTA     | F9         | 80        | 5     |
| CPLRUSER     | 164        |           | 4     |
| CPLSCRIPT    | 15C        | 20        | 5     |
| CPLSCROP     | 0          | 80        | 3     |
| CPLSENDING   | 153        | 20        | 5     |
| CPLSHADOW    | 16F        | 01        | 5     |
| CPLSHOSEQ    | 1AE        | 20        | 5     |
| CPLSOCOP     | 2          |           | 3     |
| CPLSOP       | 2          |           | 2     |
| CPLSOPOP     | 5          |           | 3     |
| CPLSPDL      | EE         | 08        | 5     |
| CPLSPIA      | EE         | 10        | 5     |
| CPLSRAVACO   | 40         |           | 2     |
| CPLSRAVOP    | 2D         | 80        | 3     |
| CPLSRERR     | 2E         |           | 2     |
| CPLSRIDX     | 34         |           | 2     |
| CPLSRIUSOP   | 2D         | 40        | 3     |
| CPLSRIUXOP   | 2D         | 20        | 3     |
| CPLSRKEPT    | 2D         | 10        | 3     |
| CPLSRKEPTX   | 2D         | 08        | 3     |



| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| CPLSRNOP      | 0          |           | 2     |
| CPLSRNUM      | 30         |           | 2     |
| CPLSRSOP      | 0          |           | 1     |
| CPLSRTOP      | 2C         |           | 2     |
| CPLSRWRS      | 2F         |           | 2     |
| CPLSSEQ       | 65         | 01        | 5     |
| CPLSSEQOP     | B4         |           | 6     |
| CPLSSWOP      | 0          |           | 2     |
| CPLSTARTED    | 1B0        | 40        | 5     |
| CPLSTCH       | 12C        |           | 4     |
| CPLSTCHD      | 12C        |           | 5     |
| CPLSTCHT      | 130        |           | 5     |
| CPLSTEPDEP    | 16F        | 80        | 5     |
| CPLSTEPSUCC   | 16F        | 40        | 5     |
| CPLSUBER      | 153        | 10        | 5     |
| CPLSUBOP      | EF         | 80        | 5     |
| CPLSUBTOKEN   | 14B        |           | 5     |
| CPLSUCOP      | 0          |           | 1     |
| CPLSUSP       | 1B0        | 20        | 5     |
| CPLSYSSFAIL   | 114        | 02        | 5     |
| CPLTASKTYPE   | 1AF        |           | 4     |
| CPLTJTOP      | EF         | 40        | 5     |
| CPLTMPPOP     | FC         |           | 4     |
| CPLTOKEN      | 11C        |           | 5     |
| CPLTOKEN_FULL | 118        |           | 4     |
| CPLTOKEN_PRE  | 118        |           | 5     |
| CPLTWSJBNM    | 15E        |           | 4     |
| CPLTWSJOB     | 12B        |           | 4     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLTXTOP     | 36         |           | 4     |
| CPLTZOFF     | 18E        |           | 4     |
| CPLTZONE     | 16E        | 04        | 5     |
| CPLUDATA     | 104        |           | 4     |
| CPLUNEXPRC   | 16F        | 04        | 5     |
| CPLURGMSG    | 15C        | 01        | 5     |
| CPLUSERSYS   | 114        | 08        | 5     |
| CPLVAR03     | 1B4        |           | 2     |
| CPLVDEST     | 186        |           | 4     |
| CPLVERS3P    | 10         |           | 4     |
| CPLWAITSE    | 15C        | 04        | 5     |
| CPLWAITWQA   | 15C        | 02        | 5     |
| CPLWASUJ     | 15C        | 08        | 5     |
| CPLWLM       | 116        |           | 4     |
| CPLWLMCLASS  | 170        |           | 4     |
| CPLWLMMSG    | 16E        | 40        | 5     |
| CPLWLMPROM   | 16E        | 80        | 5     |
| CPLWRER      | F9         | 08        | 5     |
| CPLWSOP      | 5E         |           | 5     |
| CPLXSTOP     | DF         |           | 4     |
| CPLZCENTRIC  | 16F        | 20        | 5     |
| CPL2EVOP     | EF         | 08        | 5     |
| CPL3PEXTINFO | 0          |           | 1     |
| CPL3PEXTNAME | 0          |           | 2     |
| CPL3PSENAME  | 36         |           | 2     |
| CPL3PSPLEX   | 16C        |           | 4     |

## CPLREC3Q - Current plan operation condition record

### Example

Name : DCLCPR3Q

Function:

This segment declares a current plan operation condition record, physically located in EQQCPXDS and EQQNCPDS.

The structure of the operation record is as follows:

DCL

1 CPLREC3Q

2 common data

2 condition dependency ( )

## Common data segment

### Example

| Offsets | Type           | Length | Name       | Description                                                       |
|---------|----------------|--------|------------|-------------------------------------------------------------------|
| 0       | (0) STRUCTURE  | *      | CPLREC3Q   | OPERATION CONDITION RECORD                                        |
| 0       | (0) CHARACTER  | 133    | CPLCOM3Q   |                                                                   |
| 0       | (0) CHARACTER  | 12     | CPLKEY3Q   |                                                                   |
| 0       | (0) CHARACTER  | 2      | CPLKYP3Q   | TYPE IS ALWAUS 03                                                 |
| 2       | (2) CHARACTER  | 4      | CPLNDX3Q   | OPR VSAM KEY                                                      |
| 2       | (2) UNSIGNED   | 3      | CPLOC03Q   | OCCUURENCE NUMBER                                                 |
| 5       | (5) UNSIGNED   | 1      | CPLOP03Q   | OPERATION NUMBER                                                  |
| 6       | (6) CHARACTER  | 2      | CPLFIL13Q  | ALWAYS '--' ( '6060'X )                                           |
| 8       | (8) SIGNED     | 2      | CPLCOID3Q  | COND ID                                                           |
| 10      | (A) CHARACTER  | 2      | CPLFIL23Q  | SHOULD CONTAIN BLANKS                                             |
| 12      | (C) CHARACTER  | 121    | CPLBDY3Q   | BODY OF CONDITION RECORD                                          |
| 12      | (C) CHARACTER  | 4      | CPLEYE3Q   | EYE CATCHER: CP3Q                                                 |
| 16      | (10) UNSIGNED  | 1      | CPLVERS3Q  | VERSION NUMBER                                                    |
| 17      | (11) CHARACTER | 3      | CPLFIL33Q  | SHOULD CONTAIN '00'X                                              |
| 20      | (14) SIGNED    | 2      | CPLTYPE3Q  | CONDITION TYPE:<br>1 = ONE OF<br>2 = AT LEAST N OF<br>3 = ALL     |
| 22      | (16) SIGNED    | 2      | CPL#SIMP3Q | NUMBER OF CONDITION DEPENDENCIES                                  |
| 24      | (18) SIGNED    | 2      | CPLCOUNT3Q | COUNTER: - ONLY FOR TYPE 2                                        |
| 26      | (1A) BITSTRING | 1      | CPLFLAGS3Q | CONDITION FLAGS                                                   |
|         | 1... ....      |        | CPLEMPTY3Q | CONDITION EMPTY                                                   |
|         | .1.. ....      |        | CPLAURES3Q | CONDITION GENERATED BY SUCCESSOR RESOLUTION                       |
|         | ..1. ....      |        | CPLSTCHG3Q | CONDITION STATUS CHANGE(NOT SAVED)                                |
|         | ...1 ....      |        | CPLSTEP3Q  | CONTAINS STEP LEVEL CONDITION DEPENDENCIES                        |
|         | .... 1111      | *      |            | FREE                                                              |
| 27      | (1B) CHARACTER | 1      | *          | FREE                                                              |
| 28      | (1C) CHARACTER | 24     | CPLDESC3Q  | DESCRIPTION                                                       |
| 52      | (34) CHARACTER | 1      | CPLVALUE3Q | FINAL CONDITION STATUS:<br>U = UNDECIDED<br>T = TRUE<br>F = FALSE |
| 53      | (35) CHARACTER | 16     | CPLADID3Q  | ADID OF THE OWNING OPERATION                                      |
| 69      | (45) CHARACTER | 10     | CPLIA3Q    | OCCURRENCE IA OF THE OWNING OPERATION                             |
| 69      | (45) CHARACTER | 6      | CPLIAD3Q   | - DATE                                                            |
| 75      | (4B) CHARACTER | 4      | CPLIAT3Q   | - TIME                                                            |
| 79      | (4F) CHARACTER | 1      | CPLXST3Q   | EXTENDED STATUS (RERUN)                                           |

|     |      |           |    |            |                                          |
|-----|------|-----------|----|------------|------------------------------------------|
| 80  | (50) | SIGNED    | 2  | CPLREFID3Q | REF. CONDITION ID (SUCCESSOR RESOLUTION) |
| 82  | (52) | CHARACTER | 51 | *          | FREE                                     |
| 133 | (85) | CHARACTER | *  | CPLVAR3Q   |                                          |

## Condition dependency segment

### Example

The value of CPL#SIMP3Q in the common data segment describes the number of condition dependencies segments.

### Example

| Offsets | Type | Length    | Name | Description                                                         |
|---------|------|-----------|------|---------------------------------------------------------------------|
| 0       | (0)  | STRUCTURE | 82   | CPLSIMP3Q(*)                                                        |
| 0       | (0)  | CHARACTER | 4    | CPLSIMP_KEY                                                         |
| 0       | (0)  | UNSIGNED  | 3    | CPLSIM3QOC                                                          |
| 3       | (3)  | UNSIGNED  | 1    | CPLSIM3QOP                                                          |
| 4       | (4)  | CHARACTER | 2    | CPLSIMPTYP                                                          |
|         |      |           |      | CONDITION DEPENDENCY CHECK TYPE:<br>ST = STATUS<br>RC = RETURN CODE |
| 6       | (6)  | CHARACTER | 2    | CPLSIMPLG                                                           |
| 8       | (8)  | CHARACTER | 4    | CPLSIMPLVALRC                                                       |
| 12      | (C)  | CHARACTER | 4    | CPLSIMPLVALRC2                                                      |
| 16      | (10) | CHARACTER | 1    | CPLSIMPLVALST                                                       |
| 17      | (11) | CHARACTER | 1    | CPLSIMPLVAL                                                         |
|         |      |           |      | SIMPLE COND STATUS:<br>U = UNDECIDED<br>T = TRUE<br>F = FALSE       |
| 18      | (12) | CHARACTER | 36   | CPLSIMPL_EXTKEY                                                     |
| 18      | (12) | CHARACTER | 16   | CPLSIMPLADI                                                         |
| 34      | (22) | CHARACTER | 10   | CPLSIMPLPIA                                                         |
| 34      | (22) | CHARACTER | 6    | CPLSIMPLPIAD                                                        |
| 40      | (28) | CHARACTER | 4    | CPLSIMPLPIAT                                                        |
| 44      | (2C) | CHARACTER | 10   | *                                                                   |
| 54      | (36) | CHARACTER | 1    | *                                                                   |
| 55      | (37) | CHARACTER | 1    | CPLSIMPLDEP                                                         |
| 56      | (38) | BITSTRING | 1    | CPLSIMPLFLAG                                                        |
|         | 1... | ....      |      | CPLSIMPLPREM                                                        |
|         | .1.. | ....      |      | CPLSIMPLSTCHG                                                       |
|         | ..1. | ....      |      | CPLSIMPLMISS                                                        |
|         | ...1 | ....      |      | CPLSIMPLMISSCHG                                                     |
|         | .... | 1...      |      | CPLSIMPLMISSNO                                                      |
|         |      |           |      | CPLSIMPLMISSNOCHG                                                   |
|         | .... | ..11      |      | *                                                                   |
| 57      | (39) | CHARACTER | 9    | *                                                                   |
| 66      | (42) | CHARACTER | 8    | CPLSIMPLSTEP                                                        |
| 74      | (4A) | CHARACTER | 8    | CPLSIMPLPSTEP                                                       |

## Cross reference

### Example

| NAME       | HEX<br>OFFSET | HEX<br>VALUE | LEVEL |
|------------|---------------|--------------|-------|
| ----       | -----         | -----        | ----- |
| CPL#SIMP3Q | 16            |              | 4     |
| CPLADID3Q  | 35            |              | 4     |

|                  |    |    |   |
|------------------|----|----|---|
| CPLAURES3Q       | 1A | 40 | 5 |
| CPLBDY3Q         | C  |    | 3 |
| CPLCOID3Q        | 8  |    | 4 |
| CPLCOM3Q         | 0  |    | 2 |
| CPLCOUNT3Q       | 18 |    | 4 |
| CPLDESC3Q        | 1C |    | 4 |
| CPLEMPTY3Q       | 1A | 80 | 5 |
| CPLEYE3Q         | C  |    | 4 |
| CPLFIL13Q        | 6  |    | 4 |
| CPLFIL23Q        | A  |    | 4 |
| CPLFIL33Q        | 11 |    | 4 |
| CPLFLAGS3Q       | 1A |    | 4 |
| CPLIAD3Q         | 45 |    | 5 |
| CPLIAT3Q         | 4B |    | 5 |
| CPLIA3Q          | 45 |    | 4 |
| CPLKEY3Q         | 0  |    | 3 |
| CPLKYP3Q         | 0  |    | 4 |
| CPLNDX3Q         | 2  |    | 4 |
| CPLOC03Q         | 2  |    | 5 |
| CPL0P03Q         | 5  |    | 5 |
| CPLREC3Q         | 0  |    | 1 |
| CPLREFID3Q       | 50 |    | 4 |
| CPLSIMP_EXTKEY   | 12 |    | 2 |
| CPLSIMP_KEY      | 0  |    | 2 |
| CPLSIMPADI       | 12 |    | 3 |
| CPLSIMPDEP       | 37 |    | 2 |
| CPLSIMPFLAG      | 38 |    | 2 |
| CPLSIMPIA        | 22 |    | 3 |
| CPLSIMPIAD       | 22 |    | 4 |
| CPLSIMPIAT       | 28 |    | 4 |
| CPLSIMPL0G       | 6  |    | 2 |
| CPLSIMPLVAL      | 11 |    | 2 |
| CPLSIMPMISS      | 38 | 20 | 3 |
| CPLSIMPMISSCHG   | 38 | 10 | 3 |
| CPLSIMPMISSNO    | 38 | 08 | 3 |
| CPLSIMPMISSNOCHG | 38 | 04 | 3 |
| CPLSIMPPSTEP     | 4A |    | 2 |
| CPLSIMPREM       | 38 | 80 | 3 |
| CPLSIMPSTCHG     | 38 | 40 | 3 |
| CPLSIMPSTEP      | 42 |    | 2 |
| CPLSIMPTYP       | 4  |    | 2 |
| CPLSIMPVALRC     | 8  |    | 2 |
| CPLSIMPVALRC2    | C  |    | 2 |
| CPLSIMPVALST     | 10 |    | 2 |
| CPLSIMP3Q        | 0  |    | 1 |
| CPLSIMSTCHG      | 38 | 40 | 3 |
| CPLSIM3Q0C       | 0  |    | 3 |
| CPLSIM3Q0P       | 3  |    | 3 |
| CPLSTCHG3Q       | 1A | 20 | 5 |
| CPLSTEP3Q        | 1A | 10 | 5 |
| CPLTYPE3Q        | 14 |    | 4 |
| CPLVALUE3Q       | 34 |    | 4 |
| CPLVAR3Q         | 85 |    | 2 |
| CPLVERS3Q        | 10 |    | 4 |
| CPLXST3Q         | 4F |    | 4 |

## CPLREC3R - Current plan operation user fields record

### Example

Name : DCLCPR3R

Function:

This segment declares a current plan operation user fields record, physically located in EQQCPXDS and EQQNCPDS.

The structure of the operation record is as follows:

DCL

1 CPLREC3R

2 common data

2 user field ( )

## Common data segment

### Example

| Offsets | Type | Length    | Name | Description |
|---------|------|-----------|------|-------------|
| 0       | (0)  | STRUCTURE | *    | CPLREC3R    |
| 0       | (0)  | CHARACTER | 92   | CPLCOM3R    |
| 0       | (0)  | CHARACTER | 12   | CPLKEY3R    |
| 0       | (0)  | CHARACTER | 2    | CPLKYP3R    |
| 2       | (2)  | CHARACTER | 4    | CPLNDX3R    |
| 2       | (2)  | UNSIGNED  | 3    | CPLOC03R    |
| 5       | (5)  | UNSIGNED  | 1    | CPLOP03R    |
| 6       | (6)  | CHARACTER | 2    | CPLFIL13R   |
| 8       | (8)  | CHARACTER | 4    | CPLEYE3R    |
| 12      | (C)  | CHARACTER | 80   | CPLBDY3R    |
| 12      | (C)  | CHARACTER | 4    | CPLEYE3R1   |
| 16      | (10) | UNSIGNED  | 1    | CPLVERS3R   |
| 17      | (11) | CHARACTER | 4    | CPLFIL33R   |
| 20      | (14) | SIGNED    | 2    | CPLUFN3R    |
| 22      | (16) | CHARACTER | 1    | CPLVALUE3R  |
| 23      | (17) | CHARACTER | 1    | *           |
| 24      | (18) | CHARACTER | 16   | CPLADID3R   |
| 40      | (28) | CHARACTER | 10   | CPLIA3R     |
| 40      | (28) | CHARACTER | 6    | CPLIAD3R    |
| 46      | (2E) | CHARACTER | 4    | CPLIAT3R    |
| 50      | (32) | CHARACTER | 42   | *           |
| 92      | (5C) | CHARACTER | *    | CPLVAR3R    |

## User Field segment

### Example

The value of CPL#UFN3R in the common data segment describes the number of user fields segments.

### Example

| Offsets | Type | Length    | Name | Description  |
|---------|------|-----------|------|--------------|
| 0       | (0)  | STRUCTURE | 70   | CPLBODY3R(*) |
| 0       | (0)  | CHARACTER | 16   | CPLUFNM3R    |
| 16      | (10) | CHARACTER | 54   | CPLUFV3R     |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLADID3R  | 18         |           | 4     |
| CPLBDY3R   | C          |           | 3     |
| CPLBODY3R  | 0          |           | 1     |
| CPLCOM3R   | 0          |           | 2     |
| CPLEYE3R   | 8          |           | 4     |
| CPLEYE3R1  | C          |           | 4     |
| CPLFIL13R  | 6          |           | 4     |
| CPLFIL33R  | 11         |           | 4     |
| CPLIAD3R   | 28         |           | 5     |
| CPLIAT3R   | 2E         |           | 5     |
| CPLIA3R    | 28         |           | 4     |
| CPLKEY3R   | 0          |           | 3     |
| CPLKYP3R   | 0          |           | 4     |
| CPLNDX3R   | 2          |           | 4     |
| CPLOC03R   | 2          |           | 5     |
| CPLOP03R   | 5          |           | 5     |
| CPLREC3R   | 0          |           | 1     |
| CPLUFNM3R  | 0          |           | 2     |
| CPLUFN3R   | 14         |           | 4     |
| CPLUFV3R   | 10         |           | 2     |
| CPLVALUE3R | 16         |           | 4     |
| CPLVAR3R   | 5C         |           | 2     |
| CPLVERS3R  | 10         |           | 4     |

## CPLREC33 - Current plan system automation info occurrence record

**Example**

Name : DCLCPR33

Function:

This segment declares a current plan system automation information occurrence record.

## Common data segment

| Offsets |       |           |     |              |                                       |
|---------|-------|-----------|-----|--------------|---------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description                           |
| 0       | (0)   | STRUCTURE | *   | CPLREC33     | SYSTEM AUTOMATION INFO (SAI) RECORD   |
| 0       | (0)   | CHARACTER | 12  | CPL33KEY     | KEY OF RECORD                         |
| 0       | (0)   | CHARACTER | 2   | CPLTYP33     | RECORD TYPE (ALWAYS 33)               |
| 2       | (2)   | UNSIGNED  | 3   | CPL OCC33    | OCCURENCE NUMBER IN CP                |
| 5       | (5)   | UNSIGNED  | 1   | CPL OPR33    | OPERATION NUMBER                      |
| 6       | (6)   | CHARACTER | 6   | CPLKF033     | CONTAINS BLANKS                       |
| 12      | (C)   | CHARACTER | 404 | CPL33BDY     | BODY OF SYSTEM AUTOMATION INFO RECORD |
| 12      | (C)   | CHARACTER | 4   | CPL33EYE     | EYE CATCHER (ALWAYS CP33)             |
| 16      | (10)  | UNSIGNED  | 1   | CPL33VER     | RECORD VERSION                        |
| 17      | (11)  |           | 1   | *            | RESERVED                              |
| 18      | (12)  | CHARACTER | 1   | CPLFIL33     | ALIGNMENT WITH CP VSAM KEY            |
| 19      | (13)  | CHARACTER | 336 | CPL33AUTINFO | SYSTEM AUTOMATION INFO SECTION        |
| 19      | (13)  | CHARACTER | 256 | CPL33COMTXT  | SYSTEM AUTOMATION COMMAND TEXT        |
| 19      | (13)  | CHARACTER | 64  | CPL33COMTXT1 | SA COMMAND TEXT, LINE 1               |
| 83      | (53)  | CHARACTER | 64  | CPL33COMTXT2 | SA COMMAND TEXT, LINE 2               |
| 147     | (93)  | CHARACTER | 64  | CPL33COMTXT3 | SA COMMAND TEXT, LINE 3               |
| 211     | (D3)  | CHARACTER | 64  | CPL33COMTXT4 | SA COMMAND TEXT, LINE 4               |
| 275     | (113) | CHARACTER | 8   | CPL33AUTOP   | SA AUTOMATED FUNCTION (FOR OPERATION) |
| 283     | (11B) | CHARACTER | 8   | CPL33SECELEM | SA SECURITY ELEMENT                   |
| 291     | (123) | CHARACTER | 64  | CPL33CINFO   | SA COMPLETION INFO                    |
| 355     | (163) | CHARACTER | 61  | *            | FREE                                  |
| 416     | (1A0) | CHARACTER | 31  | CPL33VAR     | VAR DATA                              |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPLFIL33 | 12         |           | 3     |
| CPLKF033 | 6          |           | 3     |



| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| CPLOCC33     | 2          |           | 3     |
| CPLOPR33     | 5          |           | 3     |
| CPLREC33     | 0          |           | 1     |
| CPLTYP33     | 0          |           | 3     |
| CPL33AUTINFO | 13         |           | 3     |
| CPL33AUTOP   | 113        |           | 4     |
| CPL33BDY     | C          |           | 2     |
| CPL33CINFO   | 123        |           | 4     |
| CPL33COMTXT  | 13         |           | 4     |
| CPL33COMTXT1 | 13         |           | 5     |
| CPL33COMTXT2 | 53         |           | 5     |
| CPL33COMTXT3 | 93         |           | 5     |
| CPL33COMTXT4 | D3         |           | 5     |
| CPL33EYE     | C          |           | 3     |
| CPL33KEY     | 0          |           | 2     |
| CPL33SECELEM | 11B        |           | 4     |
| CPL33VAR     | 1A0        |           | 2     |
| CPL33VER     | 10         |           | 3     |

## CPLREC44 - Current plan step name change record

### Example

Name : DCLCPR44

Function:

This segment declares the step name change record.

The structure of this record is the following:

DCL 1 CPLREC44

2 common data

2 run info

2 step entries

## Common data segment

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 0       | (0)  | STRUCTURE | 52  | CPLREC44   | STEP NAME CHANGE TABLE |
| 0       | (0)  | STRUCTURE | 52  | CPLFIX44   |                        |
| 0       | (0)  | CHARACTER | 16  | CPLKEY44   |                        |
| 0       | (0)  | CHARACTER | 2   | CPLTYP44   | ALWAYS 44              |
| 2       | (2)  | CHARACTER | 4   | CPLKOP44   | KEY TO RECORD 44       |
| 2       | (2)  | CHARACTER | 3   | CPLOCC44   | OCCURRENCE NUMBER      |
| 5       | (5)  | UNSIGNED  | 3   | CPLOPR44   | OPERATION NUMBER       |
| 6       | (6)  | SIGNED    | 2   | CPLSEQ44   | ALWAYS 0               |
| 8       | (8)  | CHARACTER | 8   | CPLKF44P   | RESERVED               |
| 16      | (10) | STRUCTURE | 36  | CPLBDY44   | BODY OF RECORD 44      |
| 16      | (10) | CHARACTER | 4   | CPL44EYE   | EYE CATCHER            |
| 20      | (14) | CHARACTER | 1   | CPL44VER   | VERSION NUMBER         |
| 21      | (15) | CHARACTER | 1   | *          | FREE                   |
| 22      | (16) | CHARACTER | 16  | CPL44ADID  | APPLICATION ID         |
| 38      | (26) | CHARACTER | 10  | CPL44IA    | INPUT ARRIVAL TIME     |
| 38      | (26) | CHARACTER | 6   | CPL44IAD   | IA DATE                |
| 44      | (2C) | CHARACTER | 4   | CPL14IAT   | IA TIME                |
| 48      | (30) | SIGNED    | 4   | CPL44RUN   | RUN NUMBER             |
| 52      | (34) | CHARACTER | *   | CPLVAR44   | VAR DATA               |

## Run information segment

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 4   | CPLENT44   | RUN INFO    |
| 0       | (0) | SIGNED    | 4   | CPLNUM44   | STEP NUMBER |
| 4       | (4) | CHARACTER | *   | CPLVARE44  | VAR DATA    |

## Step entry segment

### Example

The value of CPLNUM44 in the run information segment describes the number of step entry segments.

| Offsets |      |           |     |            |                     |
|---------|------|-----------|-----|------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description         |
| 0       | (0)  | STRUCTURE | 4   | CPLSTE44   | STEP ENTRY          |
| 0       | (0)  | SIGNED    | 1   | LAST44     | LAST RUN FLAG Y\N   |
| 1       | (1)  | CHARACTER | 3   | *          | FREE                |
| 4       | (4)  | CHARACTER | 8   | STEP44     | STEP NAME           |
| 12      | (C)  | CHARACTER | 8   | PROCSTEP44 | PROCEDURE STEP NAME |
| 20      | (14) | CHARACTER | 8   | NEWNAME44  | NEW STEP NAME       |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPL14IAT  | 2C         |           | 5     |
| CPL44ADID | 16         |           | 4     |
| CPL44EYE  | 10         |           | 4     |
| CPL44IA   | 26         |           | 4     |
| CPL44IAD  | 26         |           | 5     |
| CPL44RUN  | 30         |           | 4     |
| CPL44VER  | 14         |           | 4     |
| CPLBDY44  | 10         |           | 3     |
| CPLENT44  | 0          |           | 1     |
| CPLFIX44  | 0          |           | 2     |
| CPLKEY44  | 0          |           | 3     |
| CPLKF44P  | 8          |           | 4     |
| CPLKOP44  | 2          |           | 4     |
| CPLNUM44  | 0          |           | 2     |
| CPLOCC44  | 2          |           | 5     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLOPR44   | 5          |           | 5     |
| CPLREC44   | 0          |           | 1     |
| CPLSEQ44   | 6          | 80        | 4     |
| CPLSTE44   | 0          |           | 1     |
| CPLTYP44   | 0          |           | 4     |
| CPLVAR44   | 34         |           | 2     |
| CPLVARE44  | 4          |           | 2     |
| LAST44     | 0          |           | 2     |
| NEWNAME44  | 14         |           | 2     |
| PROCSTEP44 | C          |           | 2     |
| STEP44     | 4          |           | 2     |

## CPR55 - AD ID INDEX RECORD

Name: DCLCPR55

| Offsets |      |           |     |            |                                                                                                       |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                           |
| 0       | (0)  | STRUCTURE | *   | CPLREC55   | AD ID INDEX RECORD                                                                                    |
| 0       | (0)  | CHARACTER | 19  | CPLKEY55   |                                                                                                       |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 55                                                                                     |
| 2       | (2)  | CHARACTER | 16  | CPLAID55   | APPLICATION                                                                                           |
| 18      | (12) | UNSIGNED  | 1   | CPLSEQ55   | CP55 SEQUENCE NUMBER 0 FOR SPECIAL CP55 REC                                                           |
| 19      | (13) | CHARACTER | *   | CPLBDY55   | BODY OF AD ID INDEX RECORD                                                                            |
| 19      | (13) | CHARACTER | 4   | CPLYE55    | EYECATCHER                                                                                            |
| 23      | (17) | UNSIGNED  | 1   | CPLVERS55  | VERSION NUMBER                                                                                        |
| 24      | (18) | SIGNED    | 2   | CPLOC55    | NUMBER OF OCCURRENCES FOR INDEX RECORD (CPLSEQ55X=0) CONTAINS THE NUMBER OF CP55 RECORDS IN THE CHAIN |
| 26      | (1A) | CHARACTER | 6   | *          | FREE                                                                                                  |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 32      | (20) | CHARACTER | *   | CPLVAR55   | VARIABLE PART OF RECORD |

| Offsets |      |           |     |              |                                                                                                                                                                |
|---------|------|-----------|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                                                                                                                    |
| 0       | (0)  | STRUCTURE | *   | CPLOCS55     | OCCURRENCES DATA                                                                                                                                               |
| 0       | (0)  | CHARACTER | 32  | CPLOCC55 (*) | OCCURRENCE DATA                                                                                                                                                |
| 0       | (0)  | CHARACTER | 10  | CPLIA55      | INPUT ARRIVAL                                                                                                                                                  |
| 0       | (0)  | CHARACTER | 6   | CPLIAD55     | DATE                                                                                                                                                           |
| 6       | (6)  | CHARACTER | 4   | CPLIAT55     | TIME                                                                                                                                                           |
| 10      | (A)  | CHARACTER | 10  | CPLADL55     | ACTUAL COMPLETION/DELETION                                                                                                                                     |
| 10      | (A)  | CHARACTER | 6   | CPLDLD55     | DATE BLANK                                                                                                                                                     |
| 16      | (10) | CHARACTER | 4   | CPLDLT55     | TIME 0000                                                                                                                                                      |
| 20      | (14) | UNSIGNED  | 3   | CPLOCX55     | OCCURRENCE NUMBER                                                                                                                                              |
| 23      | (17) | SIGNED    | 2   | CPLNET55     | NETWORK ID                                                                                                                                                     |
| 25      | (19) | CHARACTER | 1   | CPLSTA55     | OCCURRENCE STATUS U = UNDECIDED<br>W = WAITING S = STARTED E = ENDED IN<br>ERROR C = COMPLETED D = DELETED P =<br>PENDING PREDECESSOR M = Mandatory<br>pending |
| 26      | (1A) | 1... ..   |     | CPLCLT55     | 1 MEANS ALREADY MARKED.. COMPLETE<br>ON LTP                                                                                                                    |
|         |      | .1.. .... |     | CPLMCP55     | 1 MEANS ADDED BY MCP                                                                                                                                           |
|         |      | ..1. .... |     | CPLIAM55     | 1 MEANS IA MODIFIED BY MCP                                                                                                                                     |
|         |      | ...1 .... |     | CPLCFR55     | 1 MEANS COPIED FOR REPORT                                                                                                                                      |
|         |      | .... 1... |     | CPLMPEND55   | 1 MEANS ORIG MPEND                                                                                                                                             |
|         |      | .... .111 |     | *            | FREE                                                                                                                                                           |
| 27      | (1B) | CHARACTER | 1   | CPLOCA55     | D MEANS ADDED BY MCP- DIALOG E<br>MEANS ADDED BY ETT P MEANS ADDED<br>BY PIF A MEANS ADDED BY AR BLANK<br>MEANS DP                                             |

| Offsets |      |           |     |            |                   |
|---------|------|-----------|-----|------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description       |
| 28      | (1C) | CHARACTER | 1   | CPLOCDB2   | Y = ADDED TO DB2  |
| 29      | (1D) | CHARACTER | 1   | CPLCP16AD  | Y = ADDED TO CP16 |
| 30      | (1E) | CHARACTER | 2   | *          | FREE              |

## ENTRIES OF INDEX RECORD CPLSEQ550

| Offsets |      |           |     |               |                        |
|---------|------|-----------|-----|---------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description            |
| 0       | (0)  | STRUCTURE | *   | CPLIDX55      | INDEX RECORD ENTRY     |
| 0       | (0)  | CHARACTER | 32  | CPLOCCX55 (*) | SINGLE CP55 RECORDS IX |
| 0       | (0)  | CHARACTER | 10  | CPLFIA55      | FIRST INPUT ARRIVAL    |
| 0       | (0)  | CHARACTER | 6   | CPLFIAD55     | DATE                   |
| 6       | (6)  | CHARACTER | 4   | CPLFIAT55     | TIME                   |
| 10      | (A)  | CHARACTER | 10  | CPLLIA55      | LAST INPUT ARRIVAL     |
| 10      | (A)  | CHARACTER | 6   | CPLLIAD55     | DATE                   |
| 16      | (10) | CHARACTER | 4   | CPLLIAT55     | TIME                   |
| 20      | (14) | SIGNED    | 2   | CPLOCN55      | OCCURRENCE NUMBER      |
| 22      | (16) | CHARACTER | 10  | *             | RESERVED               |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLOC55   | 18         |           | 3     |
| CPLADL55  | A          |           | 3     |
| CPLAID55  | 2          |           | 3     |
| CPLBDY55  | 13         |           | 2     |
| CPLCFR55  | 1A         | 10        | 3     |
| CPLCLT55  | 1A         | 80        | 3     |
| CPLCP16AD | 1D         |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| CPLDLD55   | A          |           | 4     |
| CPLDLT55   | 10         |           | 4     |
| CPLEYE55   | 13         |           | 3     |
| CPLFIAD55  | 0          |           | 4     |
| CPLFIAT55  | 6          |           | 4     |
| CPLFIA55   | 0          |           | 3     |
| CPLIAD55   | 0          |           | 4     |
| CPLIAM55   | 1A         | 20        | 3     |
| CPLIAT55   | 6          |           | 4     |
| CPLIA55    | 0          |           | 3     |
| CPLIDX55   | 0          |           | 1     |
| CPLKEY55   | 0          |           | 2     |
| CPLLIAD55  | A          |           | 4     |
| CPLLIAT55  | 10         |           | 4     |
| CPLLIA55   | A          |           | 3     |
| CPLMCP55   | 1A         | 40        | 3     |
| CPLMPEND55 | 1A         | 08        | 3     |
| CPLNET55   | 17         |           | 3     |
| CPLOCA55   | 1B         |           | 3     |
| CPLOCCX55  | 0          |           | 2     |
| CPLOCC55   | 0          |           | 2     |
| CPLOCDB2   | 1C         |           | 3     |
| CPLOCN55   | 14         |           | 3     |
| CPLOCS55   | 0          |           | 1     |
| CPLOCX55   | 14         |           | 3     |
| CPLREC55   | 0          |           | 1     |
| CPLSEQ55   | 12         |           | 3     |
| CPLSTA55   | 19         |           | 3     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| CPLVAR55  | 20         |           | 3     |
| CPLVERS55 | 17         |           | 3     |

## CPLREC66 - Critical job index record

### Example

Name : DCLCPR66

Function:

This segment declares a critical job index record, physically located in EQQCPxDS and EQQNCPDS. The structure of this record is the following:

DCL 1 CPLREC66

2 common data

2 critical job entries ( )

## Common data segment

### Example

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name       | Description                 |
| 0       | (0)  | STRUCTURE | 40  | CPLREC66   | CRITICAL JOBS INDEX RECORD  |
| 0       | (0)  | CHARACTER | 19  | CPLKEY66   |                             |
| 0       | (0)  | CHARACTER | 2   | *          | TYPE IS ALWAYS 66           |
| 2       | (2)  | CHARACTER | 2   | *          | BLANK                       |
| 4       | (4)  | SIGNED    | 4   | CPLSEQ66   | SEQUENCE NUMBER             |
| 8       | (8)  | CHARACTER | 11  | CPLKF66    | FILLER, CONTAINS BLANKS     |
| 19      | (13) | CHARACTER | 21  | CPLBDY66   | BODY OF CRIT JOBS INDEX REC |
| 19      | (13) | CHARACTER | 4   | CPLYE66    | EYECATCHER                  |
| 23      | (17) | CHARACTER | 1   | CPLVERS66  | VERSION                     |
| 24      | (18) | CHARACTER | 4   | *          | RESERVED                    |
| 28      | (1C) | SIGNED    | 4   | CPLCRITNUM | NUMBER OF CRIT JOBS IN REC  |
| 32      | (20) | CHARACTER | 8   | *          | RESERVED                    |
| 40      | (28) | CHARACTER |     | CPLVAR66   | VARIABLE PART OF RECORD     |

## Critical job entry index segment

### Example

| Offsets |     |           |     |                 |                          |
|---------|-----|-----------|-----|-----------------|--------------------------|
| Dec     | Hex | Type      | Len | Name            | Description              |
| 0       | (0) | STRUCTURE | *   | CPLCRIT66       | CRIT JOBS SECTION        |
| 0       | (0) | CHARACTER | 28  | CPLCRITJOB66(*) | CRIT JOB ENTRY           |
| 0       | (0) | UNSIGNED  | 3   | CPLOCX66        | OCCUR NUMBER             |
| 3       | (3) | UNSIGNED  | 1   | CPLOPR66        | OPERATION NUMBER         |
| 4       | (4) | SIGNED    | 4   | CPLJTIDX        | JOB TABLE INDEX          |
| 8       | (8) | SIGNED    | 4   | CPLCRPATHREC#   | CNT FOR CRIT PATH RECALC |
| 12      | (C) | CHARACTER | 3   | *               | FREE                     |
| 15      | (F) | CHARACTER | 1   | CPLCRPATHTRG    | CRIT PATH RECALC TRIGGER |



|    |      |           |    |               |                          |
|----|------|-----------|----|---------------|--------------------------|
| 16 | (10) | CHARACTER | 2  | *             | CRIT PATH RECALC TRIGGER |
| 18 | (12) | CHARACTER | 10 | CPLCRPATHREC  | CRIT PATH RECALC         |
| 18 | (12) | CHARACTER | 6  | CPLCRPATHRECD | CRIT PATH RECALC DATE    |
| 24 | (18) | CHARACTER | 4  | CPLCRPATHRECT | CRIT PATH RECALC TIME    |

## Cross reference

### Example

| NAME          | HEX | HEX | OFFSET | VALUE | LEVEL |
|---------------|-----|-----|--------|-------|-------|
| ----          |     |     | -----  | ----- | ----- |
| CPLBDY66      |     |     | 13     |       | 2     |
| CPLCRITJOB66  |     |     | 0      |       | 2     |
| CPLCRITNUM    |     |     | 1C     |       | 3     |
| CPLCRIT66     |     |     | 0      |       | 1     |
| CPLCRPATHREC  |     |     | 12     |       | 3     |
| CPLCRPATHREC# |     |     | 8      |       | 3     |
| CPLCRPATHRECD |     |     | 12     |       | 4     |
| CPLCRPATHRECT |     |     | 18     |       | 4     |
| CPLCRPATHTRG  |     |     | F      |       | 3     |
| CPLVEE66      |     |     | 13     |       | 3     |
| CPLJTIDX      |     |     | 4      |       | 3     |
| CPLKEY66      |     |     | 0      |       | 2     |
| CPLKF66       |     |     | 8      |       | 3     |
| CPLOCX66      |     |     | 0      |       | 3     |
| CPL0PR66      |     |     | 3      |       | 3     |
| CPLREC66      |     |     | 0      |       | 1     |
| CPLSEQ66      |     |     | 4      |       | 3     |
| CPLVAR66      |     |     | 28     |       | 3     |
| CPLVERS66     |     |     | 17     |       | 3     |

## CPLREC99 - Current plan occurrence index record

### Example

Name : DCLCPLRECR99

Function:

Describes layout of current plan occurrence index record.

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE | 43  | CPLREC99   | STAND-ALONE CLEAN UP  |
| 0       | (0) | CHARACTER | 19  | CPL99KEY   | KEY OF RECORD         |
| 0       | (0) | CHARACTER | 2   | CPL99TYP   | RECORD TYPE (99)      |
| 2       | (2) | CHARACTER | 8   | CPL99TOK   | OCCURRENCE TOKEN=TOID |
| 10      | (A) | CHARACTER | 9   | *          | FREE                  |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 19      | (13) | CHARACTER | 24  | CPL99BDY   |                         |
| 19      | (13) | CHARACTER | 4   | CPL99EYE   | EYE CATCHER=CP99        |
| 23      | (17) | CHARACTER | 1   | CPL99VER   | VERSION                 |
| 24      | (18) | UNSIGNED  | 3   | CPL99OCC   | OCCURRENCE NUMBER IN CP |
| 27      | (1B) | CHARACTER | 16  | *          | FREE                    |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CPLREC99 | 0          |           | 1     |
| CPL99BDY | 13         |           | 2     |
| CPL99EYE | 13         |           | 3     |
| CPL99KEY | 0          |           | 2     |
| CPL99OCC | 18         |           | 3     |
| CPL99TOK | 2          |           | 3     |
| CPL99TYP | 0          |           | 3     |
| CPL99VER | 17         |           | 3     |

## CSUM - Summary of completed/deleted applications report in DP

### Example

Name : DCLCSUM

Function:

Describes layout of summary of completed/ deleted occurrence records. There is one record per Priority and day. The records have the standard recsize and keysize of dpin records.

| Offsets |     |           |     |            |                         |
|---------|-----|-----------|-----|------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description             |
| 0       | (0) | STRUCTURE | 158 | CSUAREA    | PARALLEL SERV R1 R2 REC |
| 0       | (0) | CHARACTER | 114 | CSUKEY     | KEY                     |
| 0       | (0) | SIGNED    | 2   | CSUTYPE    | ALWAYS TYPE 4           |

| Offsets |      |           |     |            |                                                                                        |
|---------|------|-----------|-----|------------|----------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                            |
| 2       | (2)  | CHARACTER | 34  | *          | ADJUST KEY                                                                             |
| 36      | (24) | CHARACTER | 6   | CSUDATE    | DATE IN ISO FORMAT                                                                     |
| 42      | (2A) | SIGNED    | 2   | CSURPRI    | REVERSED PRIORITY PRI 9 -> 10 - 9 = 1<br>PRI 8 -> 10 - 8 = 2 ETC. TOTAL -> 10 - 0 = 10 |
| 44      | (2C) | CHARACTER | 70  | *          | TO ADD UP THE KEY                                                                      |
| 114     | (72) | CHARACTER | 44  | CSUDATA    | DATA PART OF CSU RECORD                                                                |
| 114     | (72) | CHARACTER | 1   | CSUPRI     | OCCURENCE PRIORITY                                                                     |
| 115     | (73) | CHARACTER | 6   | CSUCOMP    | NUMBER OF COMPLETED OCC.<br>CSURPRI=10 COMPLET+DELETED                                 |
| 121     | (79) | CHARACTER | 5   | CSURERUN   | NUMBER OF RERUN OCC.                                                                   |
| 126     | (7E) | CHARACTER | 5   | CSUDELET   | NUMBER OF DELETED OCC.                                                                 |
| 131     | (83) | CHARACTER | 5   | CSULATEI   | LATE ARRIVAL OCC.                                                                      |
| 136     | (88) | CHARACTER | 4   | CSUI       | AVERAGE LATE ARRIVAL                                                                   |
| 136     | (88) | CHARACTER | 2   | CSUIHH     | (HH )                                                                                  |
| 138     | (8A) | CHARACTER | 2   | CSUIMM     | (MM)                                                                                   |
| 140     | (8C) | CHARACTER | 5   | CSULATEO   | LATE COMPLETION                                                                        |
| 145     | (91) | CHARACTER | 4   | CSUO       | AVERAGE LATE COMPLETION                                                                |
| 145     | (91) | CHARACTER | 2   | CSUOHH     | (HH )                                                                                  |
| 147     | (93) | CHARACTER | 2   | CSUOMM     | (MM)                                                                                   |
| 149     | (95) | CHARACTER | 5   | CSUEARLO   | EARLY COMPLETION                                                                       |
| 154     | (9A) | CHARACTER | 4   | CSUE       | AVERAGE EARLY COMPLETION                                                               |
| 154     | (9A) | CHARACTER | 2   | CSUEHH     | (HH )                                                                                  |
| 156     | (9C) | CHARACTER | 2   | CSUEMM     | (MM)                                                                                   |

### Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| CSUAREA | 0          |           | 1     |
| CSUCOMP | 73         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| CSUDATA  | 72         |           | 2     |
| CSUDATE  | 24         |           | 3     |
| CSUDELET | 7E         |           | 3     |
| CSUE     | 9A         |           | 3     |
| CSUEARLO | 95         |           | 3     |
| CSUEHH   | 9A         |           | 4     |
| CSUEMM   | 9C         |           | 4     |
| CSUI     | 88         |           | 3     |
| CSUIHH   | 88         |           | 4     |
| CSUIMM   | 8A         |           | 4     |
| CSUKEY   | 0          |           | 2     |
| CSULATEI | 83         |           | 3     |
| CSULATEO | 8C         |           | 3     |
| CSUO     | 91         |           | 3     |
| CSUOHH   | 91         |           | 4     |
| CSUOMM   | 93         |           | 4     |
| CSUPRI   | 72         |           | 3     |
| CSURERUN | 79         |           | 3     |
| CSURPRI  | 2A         |           | 3     |
| CSUTYPE  | 0          |           | 3     |

## DAIOP - Daily operating plan report record in DP

### Example

Name : DCLDAIOP

Function:

Describes layout of daily\_op records representing report data on operations (and occurrences) in the New current plan. There is one daily op record for each operation and additionally one for each Predecessor after the 1st predecessor, e.g. operations with 1,2,3,4 preds give 1,1,2,3 daiop records. The records have the standard recsize and keysize of dpin records.

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 264 | DAIAREA    | DAILY_OP RECORD           |
| 0       | (0)  | CHARACTER | 115 | DAIKEY     | KEY                       |
| 0       | (0)  | SIGNED    | 2   | DAITYPE    | TYPE IS ALWAYS 2          |
| 2       | (2)  | CHARACTER | 2   | *          | TO ADJUST TO ADIDOFF      |
| 4       | (4)  | CHARACTER | 34  | *          | TO ADJUST TO ADIDOFF      |
| 38      | (26) | CHARACTER | 26  | DAIOCCID   | OCC IDENTIFICATION        |
| 38      | (26) | CHARACTER | 16  | DAIADID    | ADID OF OCC OF OPERATION  |
| 54      | (36) | CHARACTER | 10  | DAIOCIA    | OCCURRENCE IA (AFTER MCP) |
| 54      | (36) | CHARACTER | 6   | DAIOCIAD   | DAY (YYMMDD)              |
| 60      | (3C) | CHARACTER | 4   | DAIOCIAT   | TIME (HHMM)               |
| 60      | (3C) | CHARACTER | 2   | DAIOCIAH   | TIME (HH )                |
| 62      | (3E) | CHARACTER | 2   | DAIOCIAM   | TIME (MM)                 |
| 64      | (40) | CHARACTER | 10  | DAIOPRS    | OPERATION PLANNED START   |
| 64      | (40) | CHARACTER | 6   | DAIOPRSD   | DAY (YYMMDD)              |
| 70      | (46) | CHARACTER | 4   | DAIOPRST   | TIME (HHMM)               |
| 70      | (46) | CHARACTER | 2   | DAIOPRSH   | TIME (HH )                |
| 72      | (48) | CHARACTER | 2   | DAIOPRSM   | TIME (MM)                 |
| 74      | (4A) | CHARACTER | 1   | DAIOPPRI   | 10 - OPERATION PRIORITY   |
| 75      | (4B) | CHARACTER | 7   | DAIOPID    | OPERATION ID              |
| 75      | (4B) | CHARACTER | 4   | DAIWSID    | WORKSTATION ID OF OPER.   |
| 79      | (4F) | CHARACTER | 3   | DAIOPNO    | OPERATION NUMBER          |
| 82      | (52) | CHARACTER | 33  | DAIPRE     | OPERATION PRED   BLANK    |
| 82      | (52) | CHARACTER | 16  | DAIPREOC   | PREDECESSOR ADID          |
| 98      | (62) | CHARACTER | 10  | DAIPREIA   | PREDECESSOR IA   BLANK    |
| 98      | (62) | CHARACTER | 6   | DAIPREID   | YYMMDD   BLANK            |
| 104     | (68) | CHARACTER | 2   | DAIPREIH   | HH   BLANK                |
| 106     | (6A) | CHARACTER | 2   | DAIPREIM   | MM   BLANK                |

| Offsets |      |           |     |            |                                      |
|---------|------|-----------|-----|------------|--------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                          |
| 108     | (6C) | CHARACTER | 4   | DAIPREWS   | PREDECESSOR WSID   BLANK             |
| 112     | (70) | CHARACTER | 3   | DAIPREOP   | PREDECESSOR OP NO   BLANK            |
| 115     | (73) | CHARACTER | 149 | DAIDATA    | DATA PART OF DAILY_OP RCD            |
| 115     | (73) | CHARACTER | 10  | DAIADIA    | OCC ORIGINAL IA                      |
| 115     | (73) | CHARACTER | 6   | DAIADIAD   | DAY (YYMMDD)                         |
| 121     | (79) | CHARACTER | 4   | DAIADIAT   | TIME (HHMM)                          |
| 121     | (79) | CHARACTER | 2   | DAIADIAH   | TIME (HH )                           |
| 123     | (7B) | CHARACTER | 2   | DAIADIAM   | TIME (MM)                            |
| 125     | (7D) | CHARACTER | 10  | DAIOCDL    | OCCURRENCE DEADLINE                  |
| 125     | (7D) | CHARACTER | 6   | DAIOCDLD   | DAY (YYMMDD)                         |
| 131     | (83) | CHARACTER | 4   | DAIOCDLT   | TIME (HHMM)                          |
| 131     | (83) | CHARACTER | 2   | DAIOCDLH   | TIME (HH )                           |
| 133     | (85) | CHARACTER | 2   | DAIOCDLM   | TIME (MM)                            |
| 135     | (87) | CHARACTER | 1   | DAIOCPRI   | OCCURRENCE PRIORITY                  |
| 136     | (88) | CHARACTER | 1   | DAIOCSTA   | OCC STATUS S A W U                   |
| 137     | (89) | CHARACTER | 1   | DAIOCRER   | Y=OCC RERUN, ELSE N                  |
| 138     | (8A) | CHARACTER | 16  | DAIOCOWI   | APPLICATION OWNER                    |
| 154     | (9A) | CHARACTER | 24  | DAIOCTXT   | OCCURRENCE TEXT                      |
| 178     | (B2) | CHARACTER | 8   | DAIOPJOB   | OPERATION JOBNAME                    |
| 186     | (BA) | CHARACTER | 24  | DAIOPTXT   | OPERATION TEXT                       |
| 210     | (D2) | CHARACTER | 2   | DAIOPSPR   | OPERATION SPECIAL RESOURCE           |
| 212     | (D4) | CHARACTER | 4   | DAIOPDUR   | OPERATION DURATION HHMM<br>REMAINING |
| 216     | (D8) | CHARACTER | 10  | DAIOPDL    | OPERATION SPEC DEADLINE              |
| 216     | (D8) | CHARACTER | 6   | DAIOPDLD   | DAY (YYMMDD)  BLANK                  |
| 222     | (DE) | CHARACTER | 4   | DAIOPDLT   | TIME (HHMM)  BLANK                   |
| 222     | (DE) | CHARACTER | 2   | DAIOPDLH   | TIME (HH )                           |
| 224     | (E0) | CHARACTER | 2   | DAIOPDLM   | TIME (MM)                            |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 226     | (E2) | CHARACTER | 1   | DAIOPST    | OPERATION STATUS          |
| 227     | (E3) | CHARACTER | 1   | DAIOPRER   | Y=OPR PLANNED TO RERUN    |
| 228     | (E4) | CHARACTER | 1   | DAIOPMON   | Y=OPERATION IS MONITORED  |
| 229     | (E5) | CHARACTER | 35  | *          | TO ADD UP TO STD REC SIZE |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| DAIADIA  | 73         |           | 3     |
| DAIADIAD | 73         |           | 4     |
| DAIADIAH | 79         |           | 5     |
| DAIADIAM | 7B         |           | 5     |
| DAIADIAT | 79         |           | 4     |
| DAIADID  | 26         |           | 4     |
| DAIAREA  | 0          |           | 1     |
| DAIDATA  | 73         |           | 2     |
| DAIKEY   | 0          |           | 2     |
| DAIOCCID | 26         |           | 3     |
| DAIOCDL  | 7D         |           | 3     |
| DAIOCDLD | 7D         |           | 4     |
| DAIOCDLH | 83         |           | 5     |
| DAIOCDLM | 85         |           | 5     |
| DAIOCDLT | 83         |           | 4     |
| DAIOCIA  | 36         |           | 4     |
| DAIOCIAD | 36         |           | 5     |
| DAIOCIAH | 3C         |           | 6     |
| DAIOCIAM | 3E         |           | 6     |
| DAIOCIAT | 3C         |           | 5     |
| DAIOCOWI | 8A         |           | 3     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| DAIOCPRI  | 87         |           | 3     |
| DAIOCRER  | 89         |           | 3     |
| DAIOCSTA  | 88         |           | 3     |
| DAIOCTXT  | 9A         |           | 3     |
| DAIOPDL   | D8         |           | 3     |
| DAIOPDL D | D8         |           | 4     |
| DAIOPDLH  | DE         |           | 5     |
| DAIOPDLM  | E0         |           | 5     |
| DAIOPDLT  | DE         |           | 4     |
| DAIOPDUR  | D4         |           | 3     |
| DAIOPID   | 4B         |           | 3     |
| DAIOPJOB  | B2         |           | 3     |
| DAIOPMON  | E4         |           | 3     |
| DAIOPNO   | 4F         |           | 4     |
| DAIOPPRI  | 4A         |           | 3     |
| DAIOPRER  | E3         |           | 3     |
| DAIOPRS   | 40         |           | 3     |
| DAIOPRSD  | 40         |           | 4     |
| DAIOPRSH  | 46         |           | 5     |
| DAIOPRSM  | 48         |           | 5     |
| DAIOPRST  | 46         |           | 4     |
| DAIOPSPR  | D2         |           | 3     |
| DAIOPST   | E2         |           | 3     |
| DAIOPTXT  | BA         |           | 3     |
| DAIPRE    | 52         |           | 3     |
| DAIPREIA  | 62         |           | 4     |
| DAIPREID  | 62         |           | 5     |
| DAIPREIH  | 68         |           | 5     |



| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| DAIPREIM | 6A         |           | 5     |
| DAIPREOC | 52         |           | 4     |
| DAIPREOP | 70         |           | 4     |
| DAIPREWS | 6C         |           | 4     |
| DAITYPE  | 0          |           | 3     |
| DAIWSID  | 4B         |           | 4     |

## DOA - Dynamic operation area

### Example

Name : DCLDOA

Function:

This segment declares the dynamic operation area. A DOA is either on the DOA free chain or it is chained to a WQA. A DOA chained to a WQA represents an operation in progress at the workstation defined by that WQA. The information in the DOA is used to build the ready list row for an operation in a workstation ready list display and by the workstation analyzer in order to find the next operation to be scheduled.

| Offsets |     |           |     |            |                          |
|---------|-----|-----------|-----|------------|--------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description              |
| 0       | (0) | STRUCTURE | 248 | doa        | Dynamic Operation Area   |
| 0       | (0) | CHARACTER | 4   | doadesc    | block descriptor = 'DOA' |
| 4       | (4) | CHARACTER | 2   | doaver     | block mapping version    |
| 6       | (6) | BITSTRING | 2   | doaflags   | doa flags                |
|         |     | 1... .... |     | doaclate   | 1 cancel oper if late    |
|         |     | .1.. .... |     | doaurg     | 1 oper is urgent         |
|         |     | ..1. .... |     | doastamr   | 1 status set manually    |
|         |     | ...1 .... |     | doatjt     | 1 time job operation     |
|         |     | .... 1... |     | doasfail   | 1 submitrelease failed   |
|         |     | .... .1.. |     | doaarset   | 1 oper was auto reset    |
|         |     | .... ..1. |     | doaevent   | 1 a jt event was found   |
|         |     | .... ...1 |     | doastart   | 1 job has started exec   |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 7       | (7)  | 1... ..   |     | doajsub    | 1 auto submit this job    |
|         |      | .1.. ..   |     | doajhrc    | 1 job level high rc def   |
|         |      | ..1. .... |     | doadurms   | 1 max dur exceeded        |
|         |      | ...1 .... |     | doaorer    | 1 oper is rerouteable     |
|         |      | .... 1... |     | doaores    | 1 oper is restartable     |
|         |      | .... .1.. |     | doawrer    | 1 oper was rerouted WLRA  |
|         |      | .... ..1. |     | doarmsg    | 1 rer faild msg issued    |
|         |      | .... ...1 |     | doanhld    | 1 shouldn't be released   |
| 8       | (8)  | CHARACTER | 1   | doastate   | operation status          |
| 9       | (9)  | CHARACTER | 1   | doaclass   | job or sysout class       |
| 10      | (A)  | CHARACTER | 1   | doaoist    | opi status (yn0)          |
| 11      | (B)  | BITSTRING | 1   | doaflag2   | flag byte TNSC            |
|         |      | 1... ..   |     | doadwto    | deadline WTO wanted TNSA  |
|         |      | .1.. ..   |     | doadwtos   | deadline WTO sent TNSA    |
|         |      | ..1. .... |     | doadwtop   | deadline WTO processed    |
|         |      | ...1 .... |     | doaremov   | set oper to C or E DCRA   |
|         |      | .... 1... |     | doamhld    | on=manually held op HOPA  |
|         |      | .... .1.. |     | doanop     | on=nop op HOPA            |
|         |      | .... ..1. |     | doaexec    | on=execute operation HOPA |
|         |      | .... ...1 |     | doaclncm   | on=clean up comm issued   |
| 12      | (C)  | CHARACTER | 4   | doacpptr   | index to operation record |
| 12      | (C)  | UNSIGNED  | 3   | doaoccx    | occurrence index          |
| 15      | (F)  | UNSIGNED  | 1   | doaopno    | operation number          |
| 16      | (10) | CHARACTER | 8   | doajobn    | jobname (for cpu oper)    |
| 24      | (18) | ADDRESS   | 4   | doanxt     | ptr to next doa           |
| 28      | (1C) | ADDRESS   | 4   | doapre     | ptr to previous doa       |
| 32      | (20) | ADDRESS   | 4   | doanxttj   | next time job in tj       |

| Offsets |      |           |     |              |                               |
|---------|------|-----------|-----|--------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                   |
| 36      | (24) | ADDRESS   | 4   | doapretj     | previous time job             |
| 40      | (28) | ADDRESS   | 4   | doawqap      | addr of wqa for this doa      |
| 44      | (2C) | ADDRESS   | 4   | doadrap      | addr of DRA for this doa      |
| 48      | (30) | ADDRESS   | 4   | doaaws_p     | alternate WS address WLRA     |
| 52      | (34) | UNSIGNED  | 2   | doasseq      | submit sequence number        |
| 54      | (36) | 1... .... |     | doaNoerrJT   | NOERR match JT reapply DEWA   |
|         |      | .1.. .... |     | doaNoerrSkip | NOERR skip A3S evts 9TCDEWA   |
|         |      | ..1. .... |     | doasusp      | on = suspended execution      |
| 54      | (36) | BITSTRING | 1   | *            | reserved 9TCDEWC              |
| 56      | (38) | SIGNED    | 4   | doadlmin     | deadl. this op. in mins       |
| 60      | (3C) | CHARACTER | 8   | doaform      | form number                   |
| 68      | (44) | UNSIGNED  | 1   | doascrt      | CentrScript send retry        |
| 69      | (45) | CHARACTER | 1   | doarejst     | remote eng job bind status    |
| 70      | (46) | SIGNED    | 2   | doahirc      | highest non-error retcode     |
| 72      | (48) | CHARACTER | 8   | doatime      | last change (tod format)      |
| 80      | (50) | SIGNED    | 2   | doanet       | network id for operation      |
| 82      | (52) | SIGNED    | 2   | doapserv     | num parallel servers reqd     |
| 84      | (54) | SIGNED    | 2   | doar1        | amount of r1 required         |
| 86      | (56) | SIGNED    | 2   | doar2        | amount of r2 required         |
| 88      | (58) | SIGNED    | 2   | doaTZoff     | TZONE returned by exit CRPC   |
| 90      | (5A) | SIGNED    | 2   | doapri       | priority                      |
| 92      | (5C) | CHARACTER | 10  | doast        | submit date time              |
| 102     | (66) | CHARACTER | 10  | doalo        | latest start for this op d88c |
| 102     | (66) | CHARACTER | 6   | doalod       | date d88a                     |
| 108     | (6C) | SIGNED    | 4   | doalot       | time d88a                     |
| 112     | (70) | CHARACTER | 10  | doaia        | input arrival for this occ    |
| 122     | (7A) | CHARACTER | 10  | doaps        | planned start f this op d88c  |

| Offsets |      |           |     |             |                                                                                                                      |
|---------|------|-----------|-----|-------------|----------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                                                                          |
| 122     | (7A) | CHARACTER | 6   | doapsd      | date d88a                                                                                                            |
| 128     | (80) | SIGNED    | 4   | doapst      | time d88a                                                                                                            |
| 132     | (84) | SIGNED    | 4   | doarelft    | time 1st rlse 1.048 s                                                                                                |
| 136     | (88) | UNSIGNED  | 1   | doarel      | number of release done                                                                                               |
| 137     | (89) | CHARACTER | 4   | doaaltws    | alternate WS WLRA                                                                                                    |
| 141     | (8D) | CHARACTER | 1   | doaClnfla   | Clean up flag D90C                                                                                                   |
|         |      | 1... ..   |     | doaMoreRun  | 0 = First run D90C 1 = At least 1 run D90A set by AB3P event D90A                                                    |
|         |      | .1... ..  |     | doaJLInfo   | 1 = JLInfo requested D90A 0 = JLInfo to be req. D90A set by JL info requestor D90A reset when resub () D90A          |
|         |      | ..1. .... |     | doaOpInfo   | 0 = last OPerInfo not D90A available D90A 1 = last OPerInfo D90A available                                           |
|         |      | ...1 .... |     | doaPSUdone  | 0 = PSU not compl. D90A 1 = PSU completed D90A                                                                       |
|         |      | .... 1... |     | doaUserSYS  | 1 = need user sysout D90A                                                                                            |
|         |      | .... .1.. |     | doaimmerr   | 1 = imm from error st D90A (set by A3P if error D90A status) D90A                                                    |
|         |      | .... ..1. |     | doaCLmsg    | 1 = message issued D90C                                                                                              |
|         |      | .... ...1 |     | doaPSUwait  | 1 = wait for PSU done D90C set by dialog when apply logic needed but cleanup = none                                  |
| 142     | (8E) | CHARACTER | 1   | doaClnStat  | Clean Up status D90C see dclrccon D90A blank = none D90A S = started D90A C = completed D90A E = ended in error D90A |
| 143     | (8F) | BITSTRING | 1   | doaflag3    | flag byte HOPA                                                                                                       |
|         |      | 1... ..   |     | doacmd_fail | op command fail flag HOPA                                                                                            |
|         |      | .1... ..  |     | doaresub    | resend jcl for oper                                                                                                  |
|         |      | ..1. .... |     | doaosi      | osi operation                                                                                                        |
|         |      | ...1 .... |     | doasyssfail | jes sub fail                                                                                                         |
|         |      | .... 1... |     | doaevher    | error in event handler                                                                                               |

| Offsets |      |            |     |               |                                                                                                                                                                                                   |
|---------|------|------------|-----|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)    | Description                                                                                                                                                                                       |
|         |      | .... .1..  |     | doasrkep      | keep on error                                                                                                                                                                                     |
|         |      | .... ..1.  |     | doaseng       | second DLF enq done                                                                                                                                                                               |
|         |      | .... ...1  |     | doaexpJCL     | use expanded JCL D90C                                                                                                                                                                             |
| 144     | (90) | CHARACTER  | 1   | doaJRstat     | joblog retrieval status ' ' = no action yet 'R' = requested Opinfo 'W' = waiting Opinfo 'O' = Opinfo available 'I' = initiated 'S' = started (j0-evt) 'C' = complete(j2-evt) 'E' = error (j2-evt) |
| 145     | (91) | BITSTRING  | 1   | doaflag4      | D63A                                                                                                                                                                                              |
|         |      | 1... ....  |     | doaWLMr       | WLM Already Request D63A                                                                                                                                                                          |
|         |      | .1... .... |     | doacscr       | on=has centralized script                                                                                                                                                                         |
|         |      | ..1. ....  |     | doasending    | on=S-sending exstat                                                                                                                                                                               |
|         |      | ...1 ....  |     | doasuber      | on=E-OSUF exstat                                                                                                                                                                                  |
|         |      | .... 1...  |     | doaerfail     | on=E-FAIL exstat                                                                                                                                                                                  |
|         |      | .... .1..  |     | doarecprmp    | on=E-prmpt exstat                                                                                                                                                                                 |
|         |      | .... ..1.  |     | doarecjob     | on=E rec job running                                                                                                                                                                              |
|         |      | .... ...1  |     | doarecrun     | on=E(R,S,C) not restar                                                                                                                                                                            |
| 146     | (92) | CHARACTER  | 2   | doawlm        | WLM fields D63A                                                                                                                                                                                   |
| 146     | (92) | CHARACTER  | 1   | doajcrt       | WLM critical indicat. D63A                                                                                                                                                                        |
| 147     | (93) | CHARACTER  | 1   | doajpol       | WLM policy D63A                                                                                                                                                                                   |
| 148     | (94) | CHARACTER  | 2   | *             | reserved D63CLUC                                                                                                                                                                                  |
| 150     | (96) | CHARACTER  | 10  | doadl         | deadline for this opr TNSA                                                                                                                                                                        |
| 160     | (A0) | CHARACTER  | 8   | doatoken_full | operation full token                                                                                                                                                                              |
| 160     | (A0) | CHARACTER  | 4   | doatoken_pre  | prefix                                                                                                                                                                                            |
| 164     | (A4) | UNSIGNED   | 4   | doatoken      | opctoken                                                                                                                                                                                          |
| 168     | (A8) | SIGNED     | 4   | doamaxd       | max duration in mins                                                                                                                                                                              |
| 172     | (AC) | UNSIGNED   | 4   | doadur        | duration in 100th of sec                                                                                                                                                                          |
| 176     | (B0) | ADDRESS    | 4   | doaPSUjcl     | pointer to JCL D90A                                                                                                                                                                               |

## 2 doaPSUtoken char4 PSU request token \$BLBD

| Offsets |      |           |     |               |                                                                                            |
|---------|------|-----------|-----|---------------|--------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                                |
| 180     | (B4) | ADDRESS   | 4   | doaOldJCL     | pointer to old JCL BLBA                                                                    |
| 184     | (B8) | CHARACTER | 1   | doaClnTyp     | Clean up Type= D90C A = automatic, D90A I = immediate, D90A M = manual, D90A N = none D90A |
| 185     | (B9) | BITSTRING | 1   | doaflag5      | Bit battery                                                                                |
|         |      | 1... ..   |     | doaRecEnd     | op completed by recovery                                                                   |
|         |      | .1... ..  |     | doaexpjclUSED | doaexpjcl contains BGDA really expanded jcl BGDA                                           |
|         |      | ..1. .... |     | doafromPLC    | job from PLC path CCUA                                                                     |
|         |      | ...1 .... |     | doaWASUJ      | job from WASUJ path CCUA                                                                   |
|         |      | .... 1... |     | doawaitTSE    | job wait SE CCUA                                                                           |
|         |      | .... .1.. |     | doawaitWQA    | wait delay                                                                                 |
|         |      | .... ..1. |     | doaURGmsg     | on = URG msg sent                                                                          |
|         |      | .... ...1 |     | doaFTSAnop    | on = nopped on standard agent hosted by master                                             |
| 186     | (BA) | BITSTRING | 1   | doaflag6      | reserved 32CSJC22c                                                                         |
|         |      | 1... ..   |     | doaWLMprom    | on = WLM promotion done                                                                    |
|         |      | .1... ..  |     | doaWLMmsg     | on = WLM fail msg issued                                                                   |
|         |      | ..1. .... |     | doaRdSent     | reserved 34a                                                                               |
|         |      | ...1 .... |     | doanoerr      | CPWA                                                                                       |
|         |      | .... 1... |     | DoaCond       | On = COND exists                                                                           |
|         |      | .... .1.. |     | doaTZONE      | on = TZONE applied CRPA                                                                    |
|         |      | .... ..1. |     | doaNoEval     | On = do not eval cond succ                                                                 |
|         |      | .... ...1 |     | doastepsucc   | mapped on CPLSTEPSUCC                                                                      |
| 187     | (BB) | BITSTRING | 1   | doaflag7      |                                                                                            |
|         |      | 1... ..   |     | doashadow     | on = job is a shadow job                                                                   |

| Offsets |      |           |     |             |                              |
|---------|------|-----------|-----|-------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                  |
|         |      | .1.. .... |     | doacfbind   | on = complete if bind fail   |
|         |      | ..1. .... |     | doae113     | e113 issued CZ1A             |
|         |      | ...1 .... |     | doaUnexpRC  | ON = Unexpected RC           |
|         |      | .... 1... |     | doadrecov   | on=recovery in progress      |
|         |      | .... .1.. |     | doashoseq   | on=shadow in oseq            |
|         |      | .... ..1. |     | doaexit13rc | on=rc 12 from exit13 DGWA    |
|         |      | .... ...1 |     | *           | 62CDGWC                      |
| 188     | (BC) | ADDRESS   | 4   | doaseinfop  | dseinfo ptr CUA              |
| 192     | (C0) | SIGNED    | 4   | doaCRITpath | Critical path counter        |
| 196     | (C4) | CHARACTER | 8   | doaWLMclass | WLM service class            |
| 204     | (CC) | CHARACTER | 4   | doaCrtPthX  | Critical Path Origin Key     |
| 204     | (CC) | UNSIGNED  | 3   | doaPthOc    | Occ. Number                  |
| 207     | (CF) | UNSIGNED  | 1   | doaPthOp    | Operation Number             |
| 208     | (D0) | ADDRESS   | 4   | doasainfop  | dsainfo ptr CHWA             |
| 212     | (D4) | CHARACTER | 8   | doaVdest    | last used submit dest COBA   |
| 220     | (DC) | SIGNED    | 4   | doaMaxdSec  | max duration in sec CHWACVIA |
| 224     | (E0) | CHARACTER | 4   | doaErrCode  | error code (ERRRES)          |
| 228     | (E4) | CHARACTER | 8   | doasubtoken | zCentric submission token    |
| 236     | (EC) | ADDRESS   | 4   | doaSviewP   | Sview ptr                    |
| 240     | (F0) | CHARACTER | 1   | doaTaskType | reserved                     |
| 241     | (F1) | CHARACTER | 3   | *           | reserved                     |
| 244     | (F4) | CHARACTER | 4   | *           | reserved                     |
| 248     | (F8) | CHARACTER |     | doaend      | end of doa                   |

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE | 4   | *          | layout of time in doa |
| 0       | (0) | CHARACTER | 2   | doahour    | hour                  |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 2       | (2) | CHARACTER | 2   | doaminut   | minute      |

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE | 6   | *          | layout of date in doa |
| 0       | (0) | CHARACTER | 2   | doayear    | year                  |
| 2       | (2) | CHARACTER | 2   | doamonth   | month                 |
| 4       | (4) | CHARACTER | 2   | doaday     | day                   |

SE NAME variable part \$CCUA

| Offsets |      |           |     |              |                                       |
|---------|------|-----------|-----|--------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                           |
| 0       | (0)  | STRUCTURE | 30  | dseinfo      | CCUA                                  |
| 0       | (0)  | CHARACTER | 4   | dseEYE       | DSEI CCUA                             |
| 4       | (4)  | CHARACTER | 2   | dseVer       | 01 CCUA                               |
| 6       | (6)  | CHARACTER | 2   | *            | free CCUA                             |
| 8       | (8)  | ADDRESS   | 4   | dsenext      | CCUA                                  |
| 12      | (C)  | CHARACTER | 16  | dseSEname    | Scheduling Environment CCUA Name CCUA |
| 28      | (1C) | SIGNED    | 2   | dseSysplexId | Sysplex Id CCUA                       |

\$CHWA

SAI System Automation Info variable part \$CHWA

\$CHWA



| Offsets |       |           |     |              |                             |
|---------|-------|-----------|-----|--------------|-----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description                 |
| 0       | (0)   | STRUCTURE | 348 | dsainfo      | CHWA                        |
| 0       | (0)   | CHARACTER | 4   | dsaEYE       | DSAI CHWA                   |
| 4       | (4)   | CHARACTER | 2   | dsaVer       | 01 CHWA                     |
| 6       | (6)   | CHARACTER | 2   | *            | free CHWA                   |
| 8       | (8)   | ADDRESS   | 4   | dsanext      | CHWA                        |
| 12      | (C)   | CHARACTER | 336 | dsaAutoInfo  | System Automation Info CHWA |
| 12      | (C)   | CHARACTER | 256 | dsaCommText  | SA op command text CHWA     |
| 12      | (C)   | CHARACTER | 64  | dsaCommText1 | op com line 1 CHWA          |
| 76      | (4C)  | CHARACTER | 64  | dsaCommText2 | op com line 2 CHWA          |
| 140     | (8C)  | CHARACTER | 64  | dsaCommText3 | op com line 3 CHWA          |
| 204     | (CC)  | CHARACTER | 64  | dsaCommText4 | op com line 4 CHWA          |
| 268     | (10C) | CHARACTER | 8   | dsaAutoOper  | SA automated operator CHWA  |
| 276     | (114) | CHARACTER | 8   | dsaSecElem   | SA security element CHWA    |
| 284     | (11C) | CHARACTER | 64  | dsaCompInfo  | SA completion info CHWA     |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| doa       | 0          |           | 1     |
| doarel    | 88         |           | 2     |
| doaaltws  | 89         |           | 2     |
| doaarset  | 6          | 04        | 3     |
| doaaws_p  | 30         |           | 2     |
| doacfbind | BB         | 40        | 3     |
| doaclass  | 9          |           | 2     |
| doaclate  | 6          | 80        | 3     |
| doaCLmsg  | 8D         | 02        | 3     |
| doacIncm  | B          | 01        | 3     |
| doacInfla | 8D         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| doaClnStat   | 8E         |           | 2     |
| doaClnTyp    | B8         |           | 2     |
| doacmd_fail  | 8F         | 80        | 3     |
| DoaCond      | BA         | 08        | 3     |
| doacpptr     | C          |           | 2     |
| doaCRITpath  | C0         |           | 2     |
| doaCrtPthX   | CC         |           | 2     |
| doacscr      | 91         | 40        | 3     |
| doaday       | 4          |           | 2     |
| doadesc      | 0          |           | 2     |
| doadl        | 96         |           | 2     |
| doadlmin     | 38         |           | 2     |
| doadrap      | 2C         |           | 2     |
| doadrecov    | BB         | 08        | 3     |
| doadur       | AC         |           | 2     |
| doadurms     | 7          | 20        | 3     |
| doadwto      | B          | 80        | 3     |
| doadwtop     | B          | 20        | 3     |
| doadwtos     | B          | 40        | 3     |
| doaend       | F8         |           | 2     |
| doaerfail    | 91         | 08        | 3     |
| doaErrCode   | E0         |           | 2     |
| doaevent     | 6          | 02        | 3     |
| doaevher     | 8F         | 08        | 3     |
| doaexec      | B          | 02        | 3     |
| doaexit13rc  | BB         | 02        | 3     |
| doexpJCL     | 8F         | 01        | 3     |
| doexpjclUSED | B9         | 40        | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| doae113    | BB         | 20        | 3     |
| doaflags   | 6          |           | 2     |
| doaflag2   | B          |           | 2     |
| doaflag3   | 8F         |           | 2     |
| doaflag4   | 91         |           | 2     |
| doaflag5   | B9         |           | 2     |
| doaflag6   | BA         |           | 2     |
| doaflag7   | BB         |           | 2     |
| doaform    | 3C         |           | 2     |
| doafromPLC | B9         | 20        | 3     |
| doaFTSAnop | B9         | 01        | 3     |
| doahirc    | 46         |           | 2     |
| doahour    | 0          |           | 2     |
| doaia      | 70         |           | 2     |
| doaimmerr  | 8D         | 04        | 3     |
| doajcrt    | 92         |           | 3     |
| doajhrc    | 7          | 40        | 3     |
| doajLInfo  | 8D         | 40        | 3     |
| doajobn    | 10         |           | 2     |
| doajpol    | 93         |           | 3     |
| doajRstat  | 90         |           | 2     |
| doajsub    | 7          | 80        | 3     |
| doalo      | 66         |           | 2     |
| doalod     | 66         |           | 3     |
| doalot     | 6C         |           | 3     |
| doamaxd    | A8         |           | 2     |
| doaMaxdSec | DC         |           | 2     |
| doamhld    | B          | 08        | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| doaminut     | 2          |           | 2     |
| doamonth     | 2          |           | 2     |
| doaMoreRun   | 8D         | 80        | 3     |
| doanet       | 50         |           | 2     |
| doanhld      | 7          | 01        | 3     |
| doanoerr     | BA         | 10        | 3     |
| doaNoerrJT   | 36         | 80        | 2     |
| doaNoerrSkip | 36         | 40        | 2     |
| doaNoEval    | BA         | 02        | 3     |
| doanop       | B          | 04        | 3     |
| doanxt       | 18         |           | 2     |
| doanxttj     | 20         |           | 2     |
| doaoccx      | C          |           | 3     |
| doaoist      | A          |           | 2     |
| doaOldJCL    | B4         |           | 2     |
| doaOpInfo    | 8D         | 20        | 3     |
| doaopno      | F          |           | 3     |
| doaorer      | 7          | 10        | 3     |
| doaores      | 7          | 08        | 3     |
| doaoisi      | 8F         | 20        | 3     |
| doapre       | 1C         |           | 2     |
| doapretj     | 24         |           | 2     |
| doapri       | 5A         |           | 2     |
| doaps        | 7A         |           | 2     |
| doapspd      | 7A         |           | 3     |
| doapserv     | 52         |           | 2     |
| doapst       | 80         |           | 3     |
| doaPSUdone   | 8D         | 10        | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| doaPSUjcl  | B0         |           | 2     |
| doaPSUwait | 8D         | 01        | 3     |
| doaPthOc   | CC         |           | 3     |
| doaPthOp   | CF         |           | 3     |
| doaRdSent  | BA         | 20        | 3     |
| doaRecEnd  | B9         | 80        | 3     |
| doarecjob  | 91         | 02        | 3     |
| doarecprmp | 91         | 04        | 3     |
| doarecrun  | 91         | 01        | 3     |
| doarejst   | 45         |           | 2     |
| doarelft   | 84         |           | 2     |
| doaremov   | B          | 10        | 3     |
| doaresub   | 8F         | 40        | 3     |
| doarmsg    | 7          | 02        | 3     |
| doar1      | 54         |           | 2     |
| doar2      | 56         |           | 2     |
| doasainfop | D0         |           | 2     |
| doascrt    | 44         |           | 2     |
| doaseinfop | BC         |           | 2     |
| doasending | 91         | 20        | 3     |
| doasenq    | 8F         | 02        | 3     |
| doasfail   | 6          | 08        | 3     |
| doashadow  | BB         | 80        | 3     |
| doashoseq  | BB         | 04        | 3     |
| doasrkep   | 8F         | 04        | 3     |
| doasseq    | 34         |           | 2     |
| doast      | 5C         |           | 2     |
| doastamr   | 6          | 20        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| doastart      | 6          | 01        | 3     |
| doastate      | 8          |           | 2     |
| doastepsucc   | BA         | 01        | 3     |
| doasuber      | 91         | 10        | 3     |
| doasubtoken   | E4         |           | 2     |
| doasusp       | 36         | 20        | 2     |
| doaSviewP     | EC         |           | 2     |
| doasyssfail   | 8F         | 10        | 3     |
| doaTaskType   | F0         |           | 2     |
| doatime       | 48         |           | 2     |
| doatjt        | 6          | 10        | 3     |
| doatoken      | A4         |           | 3     |
| doatoken_full | A0         |           | 2     |
| doatoken_pre  | A0         |           | 3     |
| doaTZoff      | 58         |           | 2     |
| doaTZONE      | BA         | 04        | 3     |
| doaUnexpRC    | BB         | 10        | 3     |
| doaurg        | 6          | 40        | 3     |
| doaURGmsg     | B9         | 02        | 3     |
| doaUserSYS    | 8D         | 08        | 3     |
| doaVdest      | D4         |           | 2     |
| doaver        | 4          |           | 2     |
| doawaitTSE    | B9         | 08        | 3     |
| doawaitWQA    | B9         | 04        | 3     |
| doaWASUJ      | B9         | 10        | 3     |
| doawlm        | 92         |           | 2     |
| doaWLMclass   | C4         |           | 2     |
| doaWLMmsg     | BA         | 40        | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| doaWLMprom   | BA         | 80        | 3     |
| doaWLMr      | 91         | 80        | 3     |
| doawqap      | 28         |           | 2     |
| doawrer      | 7          | 04        | 3     |
| doayear      | 0          |           | 2     |
| dsaAutoInfo  | C          |           | 2     |
| dsaAutoOper  | 10C        |           | 3     |
| dsaCommText  | C          |           | 3     |
| dsaCommText1 | C          |           | 4     |
| dsaCommText2 | 4C         |           | 4     |
| dsaCommText3 | 8C         |           | 4     |
| dsaCommText4 | CC         |           | 4     |
| dsaComplInfo | 11C        |           | 3     |
| dsaEYE       | 0          |           | 2     |
| dsainfo      | 0          |           | 1     |
| dsanext      | 8          |           | 2     |
| dsaSecElem   | 114        |           | 3     |
| dsaVer       | 4          |           | 2     |
| dseEYE       | 0          |           | 2     |
| dseinfo      | 0          |           | 1     |
| dsenext      | 8          |           | 2     |
| dseSEname    | C          |           | 2     |
| dseSysplexId | 1C         |           | 2     |
| dseVer       | 4          |           | 2     |

## DPH - Daily plan report header record

### Example

Name : DCLDPH

Function:

Describes layout of a header record written in all DP plans to describe general data about the planning run. The record has the standard recsize and keysize of DPIN records.

| Offsets |      |           |     |            |                                                                                                                                             |
|---------|------|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                                 |
| 0       | (0)  | STRUCTURE | 273 | DPHAREA    | HEADER RECORD                                                                                                                               |
| 0       | (0)  | CHARACTER | 114 | DPHKEY     | KEY                                                                                                                                         |
| 0       | (0)  | SIGNED    | 2   | DPHTYPE    | ALWAYS TYPE 1                                                                                                                               |
| 2       | (2)  | SIGNED    | 2   | DPHSTYPE   | SUBTYPE 1=DPREC, 2=DPRES                                                                                                                    |
| 4       | (4)  | CHARACTER | 34  | *          | ADJUST FOR ADID                                                                                                                             |
| 38      | (26) | CHARACTER | 76  | *          | TO ADD UP TO STD KEYSIZE                                                                                                                    |
| 114     | (72) | CHARACTER | 159 | DPHDATA    | DATA PART OF DPH REC                                                                                                                        |
| 114     | (72) | CHARACTER | 1   | DPHPTYPE   | TYPE OF PLANNING:<br>1 = TRIAL NEXT<br>2 = TRIAL REPLAN<br>3 = TRIAL FUTURE<br>4 = NEXT<br>5 = REPLAN<br>6 = NONREPORTING<br>7 = CP RESULTS |
| 115     | (73) | CHARACTER | 1   | DPHNCP     | NEW NCP Y/N                                                                                                                                 |
| 116     | (74) | CHARACTER | 1   | DPHFEEDB   | MISSED FEEDBACK REPORT Y/N                                                                                                                  |
| 117     | (75) | CHARACTER | 10  | DPHOCF     | USED OCF IDENTIFYER                                                                                                                         |
| 117     | (75) | CHARACTER | 6   | DPHOCFD    | DATE (YYMMDD)                                                                                                                               |
| 123     | (7B) | CHARACTER | 4   | DPHOCPT    | TIME (HHMM)                                                                                                                                 |
| 127     | (7F) | CHARACTER | 6   | DPHLTP     | USED LTP IDENTIFYER                                                                                                                         |
| 127     | (7F) | CHARACTER | 6   | DPHLTPD    | DATE (YYMMDD)                                                                                                                               |
| 133     | (85) | CHARACTER | 10  | DPHSALG    | PLANNING START (ALGORITHM)                                                                                                                  |
| 133     | (85) | CHARACTER | 6   | DPHSALGD   | DATE (YYMMDD)                                                                                                                               |
| 139     | (8B) | CHARACTER | 4   | DPHSALGT   | TIME (HHMM)                                                                                                                                 |
| 143     | (8F) | CHARACTER | 10  | DPHSUSE    | PLANNING START (USER)                                                                                                                       |



| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 143     | (8F) | CHARACTER | 6   | DPHSUSED   | DATE (YYMMDD)             |
| 149     | (95) | CHARACTER | 4   | DPHSUSET   | TIME (HHMM)               |
| 153     | (99) | CHARACTER | 10  | DPHPLNT    | TAIL PERIOD END           |
| 153     | (99) | CHARACTER | 6   | DPHPLNTD   | DATE (YYMMDD)             |
| 159     | (9F) | CHARACTER | 4   | DPHPLNTT   | TIME (HHMM)               |
| 163     | (A3) | CHARACTER | 10  | DPHSREP    | REPORT PERIOD START (RES) |
| 163     | (A3) | CHARACTER | 6   | DPHSREPD   | DATE (YYMMDD)             |
| 169     | (A9) | CHARACTER | 4   | DPHSREPT   | TIME (HHMM)               |
| 173     | (AD) | CHARACTER | 10  | DPHEREP    | REPORT PERIOD END (RES)   |
| 173     | (AD) | CHARACTER | 6   | DPHEREPD   | DATE (YYMMDD)             |
| 179     | (B3) | CHARACTER | 4   | DPHEREPT   | TIME (HHMM)               |
| 179     | (B3) | CHARACTER | 2   | DPHEREPH   | HH                        |
| 181     | (B5) | CHARACTER | 2   | DPHEREPM   | MM                        |
| 183     | (B7) | CHARACTER | 10  | DPHEUSE    | PLANNING END (USER)       |
| 183     | (B7) | CHARACTER | 6   | DPHEUSED   | DATE (YYMMDD)             |
| 189     | (BD) | CHARACTER | 4   | DPHEUSET   | TIME (HHMM)               |
| 193     | (C1) | CHARACTER | 6   | DPHROPT    | OPTIONS                   |
| 193     | (C1) | CHARACTER | 1   | DPHWSACT   | 1 0                       |
| 194     | (C2) | CHARACTER | 1   | DPHDAIOP   | 1 0                       |
| 195     | (C3) | CHARACTER | 1   | DPHALLWS   | 1 0                       |
| 196     | (C4) | CHARACTER | 1   | DPH1STWS   | 1 0                       |
| 197     | (C5) | CHARACTER | 1   | DPHNONRE   | 1 0                       |
| 198     | (C6) | CHARACTER | 1   | DPHCPRES   | 1 0                       |
| 199     | (C7) | CHARACTER | 2   | DPHROPTRU  | OPTIONS, RES UTILIZATION  |
| 199     | (C7) | CHARACTER | 1   | DPHPLNRU   | PLANNED RES UTILIZ 1 0    |
| 200     | (C8) | CHARACTER | 1   | DPHACTRU   | ACTUAL RES UTILIZ 1 0     |
| 201     | (C9) | CHARACTER | 1   | DPHCRIT    | Y=REPORT PRESENT          |
| 202     | (CA) | CHARACTER | 8   | DPH#MSG    | DPIN MESSAGE COUNTERS     |

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 202     | (CA) | SIGNED    | 2   | DPH#MSGE   | ERROR                  |
| 204     | (CC) | SIGNED    | 2   | DPH#MSGW   | WARNING                |
| 206     | (CE) | SIGNED    | 2   | DPH#MSGI   | INFORMATION            |
| 208     | (D0) | SIGNED    | 2   | DPH#MSGU   | UNRECOVERABLE          |
| 210     | (D2) | UNSIGNED  | 4   | DPH#OCCS   | NUMBER OF PLANNED OCC  |
| 214     | (D6) | UNSIGNED  | 4   | DPH#OPS    | NUMBER OF PLANNED OPS  |
| 218     | (DA) | CHARACTER | 55  | *          | ADD UP TO STD REC SIZE |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| DPH#MSG  | CA         |           | 3     |
| DPH#MSGE | CA         |           | 4     |
| DPH#MSGI | CE         |           | 4     |
| DPH#MSGU | D0         |           | 4     |
| DPH#MSGW | CC         |           | 4     |
| DPH#OCCS | D2         |           | 3     |
| DPH#OPS  | D6         |           | 3     |
| DPHACTRU | C8         |           | 4     |
| DPHALLWS | C3         |           | 4     |
| DPHAREA  | 0          |           | 1     |
| DPHCPRES | C6         |           | 4     |
| DPHCRIT  | C9         |           | 3     |
| DPHDAIOP | C2         |           | 4     |
| DPHDATA  | 72         |           | 2     |
| DPHEREP  | AD         |           | 3     |
| DPHEREPD | AD         |           | 4     |
| DPHEREPH | B3         |           | 5     |
| DPHEREPM | B5         |           | 5     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| DPHEREPT  | B3         |           | 4     |
| DPHEUSE   | B7         |           | 3     |
| DPHEUSED  | B7         |           | 4     |
| DPHEUSET  | BD         |           | 4     |
| DPHFEEDB  | 74         |           | 3     |
| DPHKEY    | 0          |           | 2     |
| DPHLTP    | 7F         |           | 3     |
| DPHLTPD   | 7F         |           | 4     |
| DPHNCP    | 73         |           | 3     |
| DPHNONRE  | C5         |           | 4     |
| DPHOCP    | 75         |           | 3     |
| DPHOCPD   | 75         |           | 4     |
| DPHOCPPT  | 7B         |           | 4     |
| DPHPLNRU  | C7         |           | 4     |
| DPHPLNT   | 99         |           | 3     |
| DPHPLNTD  | 99         |           | 4     |
| DPHPLNTT  | 9F         |           | 4     |
| DPHPTYPE  | 72         |           | 3     |
| DPHROPT   | C1         |           | 3     |
| DPHROPTRU | C7         |           | 3     |
| DPHSALG   | 85         |           | 3     |
| DPHSALGD  | 85         |           | 4     |
| DPHSALGT  | 8B         |           | 4     |
| DPHSREP   | A3         |           | 3     |
| DPHSREPD  | A3         |           | 4     |
| DPHSREPT  | A9         |           | 4     |
| DPHSTYPE  | 2          |           | 3     |
| DPHSUSE   | 8F         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| DPHSUSED | 8F         |           | 4     |
| DPHSUSET | 95         |           | 4     |
| DPHTYPE  | 0          |           | 3     |
| DPHWSACT | C1         |           | 4     |
| DPH1STWS | C4         |           | 4     |

## DPIN or DPUT - Report record in DP

### Example

Name : DCLDPIN

Function:

Describes standard of layout for all daily planner report (including message) records. There are several record types but they all have the same key size and record size. The sort step that follows step1 of a daily planner run sorts the record on that key.

| Offsets |     |           |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------|-----|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 0       | (0) | STRUCTURE | 558 | DPINREC    | DPIN RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 0       | (0) | CHARACTER | 114 | DPIKEY     | KEY OF DPIN RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0       | (0) | SIGNED    | 2   | DPITYPE    | 1 = HEADER RECORD SUBTYPE (DPH)<br>1 = DPREC HDR SUBTYPE<br>2 = DPRES HDR<br>2 = DAILY_OP RECORD (DAIOP)<br>3 = WS PLAN RECORDS SUBTYPE (WSP)<br>1 = WSP_OP RCD SSTYPE<br>1 = OPENTIME SSTYPE<br>2 = OPERATION SUBTYPE<br>2 = WSP_FOP RCD SUBTYPE<br>3 = WSN RCD SUBTYPE<br>4 = WSN_R1 SUBTYPE<br>5 = WSN_R2<br>4 = SUMMARY TABLES RECORD (CSUM)<br>5 = COMPLETED OCCURRENCE OP<br>RECORD SUBTYPE (CAPP)<br>1 = OLD 24-H SUBTYPE<br>2 = CURR 24-H |

| Offsets |      |           |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|         |      |           |     |            | 6 = OPER IN ERROR REC (OPERR)<br>7 = WS ACTIVITY RECORD SUBTYPE (WSN)<br>1 = WSNA RCD SUBTYPE<br>2 = WSN_R1 SUBTYPE<br>3 = WSN_R2<br>8 = COMPLETED OCCURRENCE ERR REC.<br>SUBTYPE (ERRS)<br>1 = ERROR SUM SUBTYPE<br>2 = TOTAL SUM<br>9 = MISSED FEEDBACK (MFB)<br>13 = PLANNED UTIL HISTO (PRUH)<br>17 = PLANNED UTIL REPORT (PRUT)<br>20 = ACTUAL UTIL REPORT SUBTYPE (ARU)<br>1 = INTERVAL SUBTYPE<br>5 = DETAIL<br>30 = ERROR MESSAGE REC (DPMSG)<br>40 = CRITICAL PATH (CRIRP) |
| 2       | (2)  | CHARACTER | 78  | *          | TO ADD UP TO STD KEYSIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 80      | (50) | CHARACTER | 34  | *          | TO ADD UP TO NEW KZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 114     | (72) | CHARACTER | 444 | DPIDATA    | DATA PART OF DPIN RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 114     | (72) | CHARACTER | 444 | *          | TO ADD UP TO STD REC SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## DQE - data router q element

### Example

Name : DCLDQE

Function:

This segment maps queue elements for several queues. The mapping of the DQEDATA field varies depending on the value of DQETYPE.

If data buffers are used (indicated by dqebp<sup>r</sup> ^= 0), they are always allocated in subpool 2 by queue adders, and are freed when no longer needed by queue servers.

| Offsets |      |           |     |            |                                         |
|---------|------|-----------|-----|------------|-----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                             |
| 0       | (0)  | STRUCTURE | 152 | DQE        | data router q element                   |
| 0       | (0)  | CHARACTER | 4   | DQEDESC    | block descriptor, DQE                   |
| 4       | (4)  | CHARACTER | 2   | DQEVER     | version number, 01                      |
| 6       | (6)  | BITSTRING | 2   | *          | reserved flags                          |
| 8       | (8)  | CHARACTER | 3   | DQETYPE    | data type                               |
| 11      | (B)  | BITSTRING | 1   | DQEFLAGS   | flags                                   |
|         |      | 1... .... |     | DQEFLRES   | reset seqds                             |
|         |      | .1.. .... |     | DQECMEXS   | cm execution suspended for this element |
|         |      | ..1. .... |     | DQENCKPT   | don't chkpt this submit                 |
|         |      | ...1 .... |     | DQEPAGE    | pace the event flood                    |
|         |      | .... 1... |     | DQENOEDP   | no edp chkpt for this ev                |
|         |      | .... .1.. |     | *          | reserved                                |
|         |      | .... ..1. |     | DQE23PSUS  | flag for A2 A3P susp                    |
|         |      | .... ...1 |     | DQESPIN    | on = SPIN enabled off= SPIN disabled    |
| 12      | (C)  | ADDRESS   | 4   | DQEECBP    | addr of service requestor ecb           |
| 16      | (10) | ADDRESS   | 4   | DQEBPTR    | external data buffer ptr                |
| 20      | (14) | SIGNED    | 4   | DQEBLEN    | size of external buffer                 |
| 24      | (18) | CHARACTER | 8   | DQEDEST    | destination id                          |
| 32      | (20) | SIGNED    | 4   | DQERMAX    | max of recs per cyc in eds              |
| 36      | (24) | SIGNED    | 4   | DQEBLTOT   | total size of external buffer           |
| 40      | (28) | SIGNED    | 2   | DQEBSNBR   | buffer sequence number                  |
| 42      | (2A) | SIGNED    | 2   | DQEBSTOT   | buffer sequence tot nbr in seq          |
| 44      | (2C) | CHARACTER | 100 | DQEDATA    | local data buffer                       |
| 144     | (90) | SIGNED    | 4   | DQEADDER   | Additional recs w buffer                |
| 148     | (94) | BITSTRING | 1   | DQEFLAGS1  | additional flags                        |
|         |      | 1... .... |     | DQESP131   | ext buf in sp 131                       |
|         |      | .111 1111 |     | *          | reserved                                |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 149     | (95) | CHARACTER | 1   | *          | reserved                |
| 150     | (96) | UNSIGNED  | 2   | DQEEVTS    | current evds submit seq |
| 152     | (98) | CHARACTER |     | DQEEND     | end of dqe              |

| Offsets |      |           |     |            |                              |
|---------|------|-----------|-----|------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                  |
| 0       | (0)  | STRUCTURE | 100 | DQEEVT     | event data buffer mapping    |
| 0       | (0)  | SIGNED    | 2   | DQENNUM    | opc node number              |
| 2       | (2)  | SIGNED    | 2   | DQERDRN    | event reader number in node  |
| 4       | (4)  | CHARACTER | 8   | DQEPOS     | event ds position            |
| 4       | (4)  | SIGNED    | 4   | DQECYC     | write cycle number           |
| 8       | (8)  | SIGNED    | 4   | DQEREC     | record number in cycle       |
| 12      | (C)  | CHARACTER | 8   | DQERELD    | release destination or blank |
| 20      | (14) | CHARACTER | 80  | DQEEXR     | exit record, see dcllexr     |

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 6   | DQECLJ     | a DASD tracker needs   |
| 0       | (0) | CHARACTER | 5   | DQECLJOB   | clnjob prefix and      |
| 5       | (5) | CHARACTER | 1   | DQEDSCLAS  | datastore class if JCC |

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 0       | (0)  | STRUCTURE | 20  | DQERFW     | rflw data             |
| 0       | (0)  | CHARACTER | 8   | DQERFWDEST | destination name      |
| 8       | (8)  | CHARACTER | 8   | DQEEDP     | edp information       |
| 8       | (8)  | SIGNED    | 4   | DQEEDPWCY  | write cycle number    |
| 12      | (C)  | SIGNED    | 4   | DQEEDPREC  | record of last record |
| 16      | (10) | SIGNED    | 4   | DQERFWNNUM | node number           |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 48  | DQEREL     | release job mapping       |
| 0       | (0)  | CHARACTER | 8   | DQERJBNM   | job name                  |
| 8       | (8)  | CHARACTER | 8   | DQERJBID   | job number                |
| 16      | (10) | CHARACTER | 8   | DQERCNJE   | current nje node          |
| 24      | (18) | CHARACTER | 8   | DQERONJE   | origin nje node           |
| 32      | (20) | UNSIGNED  | 2   | DQEASEQ    | submit sequence           |
| 34      | (22) | CHARACTER | 4   | DQEAWSID   | work station id           |
| 38      | (26) | UNSIGNED  | 2   | *          | reserved                  |
| 40      | (28) | SIGNED    | 4   | DQEROJID   | original job number       |
| 44      | (2C) | CHARACTER | 4   | DQEASSNAM  | controller subsystem name |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 100 | DQESUB     | submit data mapping       |
| 0       | (0)  | CHARACTER | 4   | DQERUS     | **RU or blank             |
| 4       | (4)  | CHARACTER | 8   | DQETSO     | Tso user id or blank      |
| 12      | (C)  | CHARACTER | 8   | DQEJOB     | jobSTC name               |
| 20      | (14) | SIGNED    | 4   | DQENREC    | no of jcl card images     |
| 24      | (18) | CHARACTER | 4   | DQEWSID    | work station id           |
| 28      | (1C) | CHARACTER | 16  | DQEADID    | application ID            |
| 44      | (2C) | CHARACTER | 10  | DQEOCIA    | occurrence input arrival  |
| 54      | (36) | SIGNED    | 2   | DQEOPNUM   | operation number          |
| 56      | (38) | CHARACTER | 4   | DQESSNAM   | controller subsystem name |
| 60      | (3C) | UNSIGNED  | 2   | DQESSEQ    | submit sequence           |
| 62      | (3E) | CHARACTER | 8   | DQEJID     | job of last subbed job    |
| 70      | (46) | SIGNED    | 2   | DQEASID    | job asid                  |
|         |      | 1... ..   |     | DQECKP     | dqeadid not used. 1 bit   |
|         |      | .1.. ..   |     | DQEPROMOTE | promoted job              |



| Offsets |      |           |     |               |                          |
|---------|------|-----------|-----|---------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description              |
| 70      | (46) | BITSTRING | 1   | *             | used for DASD connection |
| 72      | (48) | CHARACTER | 8   | DQETOKEN_FULL |                          |
| 72      | (48) | CHARACTER | 4   | DQETOKEN_PRE  | operation token prefix   |
| 72      | (48) | CHARACTER | 4   | DQEOCCTOK1    | OCC token part 1         |
| 76      | (4C) | UNSIGNED  | 4   | DQETOKEN      | operation token          |
| 76      | (4C) | CHARACTER | 4   | DQEOCCTOK2    | OCC token part 2         |
| 80      | (50) | ADDRESS   | 4   | DQEEOPTP      | e2e option user area     |
| 84      | (54) | CHARACTER | 8   | DQENETID      | APPC netid (final dest)  |
| 84      | (54) | CHARACTER | 8   | DQESUBTOKEN   | HTTP submission token    |
| 92      | (5C) | CHARACTER | 8   | DQENETLU      | APPC netLU (final dest)  |
| 92      | (5C) | CHARACTER | 8   | DQESDEST      | submit dest              |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 28  | DQERSSEQ   | sseq sync request         |
| 0       | (0)  | CHARACTER | 4   | DQERWSID   | work station id           |
| 4       | (4)  | CHARACTER | 8   | DQECREAT   | request evt creation time |
| 4       | (4)  | SIGNED    | 4   | DQEDATE    | date format (00yydddf)    |
| 8       | (8)  | SIGNED    | 4   | DQETIME    | time format (secs*100)    |
| 12      | (C)  | CHARACTER | 4   | DQERSSNAM  | controller subsystem name |
| 16      | (10) | UNSIGNED  | 1   | DQERSEQ    | request sequence from w   |
| 17      | (11) | BITSTRING | 1   | DQERFLG1   | flagbyte byte 1           |
|         |      | 1... .... |     | DQERASK    | req for curr evds sseq    |
|         |      | .1.. .... |     | DQERCOLD   | cold start the ws         |
|         |      | ..1. .... |     | DQERDLTE   | remove the ws from evds   |
|         |      | ...1 .... |     | DQERSET    | req to set evds to wseq   |
|         |      | .... 1111 |     | *          | reserved                  |
| 18      | (12) | UNSIGNED  | 2   | DQEWSEQ    | submit sequence from ws   |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 20      | (14) | CHARACTER | 8   | DQEJDEST   | dqedest     |

| Offsets |      |           |     |            |                                                                                      |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                          |
| 0       | (0)  | STRUCTURE | 18  | DQECMINI   | initialize CM for oper                                                               |
| 0       | (0)  | CHARACTER | 8   | DQECMJOB   | jobSTC name                                                                          |
| 8       | (8)  | SIGNED    | 4   | DQECMOCC   | occurrence number                                                                    |
| 12      | (C)  | SIGNED    | 4   | DQECMOPR   | operation number                                                                     |
| 16      | (10) | CHARACTER | 2   | DQECMRT    | TASK ID requestor EM = Event Manager AR<br>= Automatic Recovery GS = General Service |

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 100 | DQERFP     | RODM request for parms |
| 0       | (0) | CHARACTER | 8   | DQERFPD    | requestor destination  |
| 8       | (8) | CHARACTER | 92  | *          | reserved               |

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE | 100 | DQERSL     | RODM subsystem lost   |
| 0       | (0) | CHARACTER | 8   | DQERSLDN   | requestor destination |
| 8       | (8) | CHARACTER | 4   | DQERSLSSN  | subsystem name        |
| 12      | (C) | CHARACTER | 88  | *          | reserved              |

#### Dynamic Critical Path

dqedata containing data sent to critical path handler

when an MCP action is performed on a critical predecessor

and the dataspace has to be updated consequently

| Offsets |      |           |     |            |                                                                                                                                 |
|---------|------|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                     |
| 0       | (0)  | STRUCTURE | 100 | DQECRT     | Crit Path recalc                                                                                                                |
| 0       | (0)  | CHARACTER | 4   | DQEWS      | workstation name                                                                                                                |
| 4       | (4)  | CHARACTER | 1   | DQESTATUS  | operation status                                                                                                                |
| 5       | (5)  | CHARACTER | 1   | DQEEXSTAT  | oper extended status                                                                                                            |
| 6       | (6)  | BITSTRING | 1   | DQEFLAGS2  | flags                                                                                                                           |
|         |      | 1... ..   |     | DQENOPED   | noped operation                                                                                                                 |
|         |      | .1.. ..   |     | DQEMANHELD | oper manually held                                                                                                              |
|         |      | ..1. .... |     | DQEMHELDCH | first dqe of a seq                                                                                                              |
|         |      | ...1 .... |     | DQENOPCH   | last dqe of a seq                                                                                                               |
|         |      | .... 1... |     | DQETMDCH   | time dep chg                                                                                                                    |
|         |      | .... .1.. |     | DQETMDEP   | time dep                                                                                                                        |
|         |      | .... ..1. |     | DQEOPIACH  | oper ia changed                                                                                                                 |
|         |      | .... ...1 |     | *          | free                                                                                                                            |
| 7       | (7)  | BITSTRING | 1   | DQEFLAGS3  | free                                                                                                                            |
|         |      | 1... ..   |     | DQEISFIRST | first dqe of a seq                                                                                                              |
|         |      | .1.. .... |     | DQEADDJOB  | add job to dataspace                                                                                                            |
|         |      | ..1. .... |     | DQEISLAST  | last dqe of a seq                                                                                                               |
|         |      | ...1 1111 |     | *          | free                                                                                                                            |
| 8       | (8)  | CHARACTER | 8   | DQEJOBNAME | job name                                                                                                                        |
| 16      | (10) | SIGNED    | 4   | DQEJOBENIX | job table entry index                                                                                                           |
| 20      | (14) | CHARACTER | 1   | DQEJOBPTY  | job priority                                                                                                                    |
| 21      | (15) | CHARACTER | 1   | DQEREQTYPE | MCP request type S - status change A - Add operationdep D - Delete (oper, dep M - Modify P - Critical indicat F - FOP indicator |
| 22      | (16) | CHARACTER | 2   | *          | free                                                                                                                            |
| 24      | (18) | SIGNED    | 4   | DQEINDPRED | pred j table entry ix                                                                                                           |
| 28      | (1C) | CHARACTER | 1   | DQEOLDSTAT | operation old status                                                                                                            |
| 29      | (1D) | CHARACTER | 1   | DQECRITIND | critical indicator                                                                                                              |

| Offsets |      |           |     |             |                    |
|---------|------|-----------|-----|-------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description        |
| 30      | (1E) | CHARACTER | 10  | DQEINPARR   | input arrival time |
| 30      | (1E) | CHARACTER | 6   | DQEINPARRD  | date               |
| 36      | (24) | CHARACTER | 4   | DQEINPARRT  | time               |
| 40      | (28) | CHARACTER | 2   | *           | free               |
| 42      | (2A) | CHARACTER | 10  | DQEDEADL    | deadline           |
| 42      | (2A) | CHARACTER | 6   | DQEDEADLD   | date               |
| 48      | (30) | CHARACTER | 4   | DQEDEADLT   | time               |
| 52      | (34) | CHARACTER | 2   | *           | free               |
| 54      | (36) | CHARACTER | 10  | DQEASTART   | actual start time  |
| 54      | (36) | CHARACTER | 6   | DQEASTARTD  | date               |
| 60      | (3C) | SIGNED    | 4   | DQEASTARTT  | time               |
| 64      | (40) | CHARACTER | 2   | *           | free               |
| 66      | (42) | CHARACTER | 10  | DQEAEND     | actual end time    |
| 66      | (42) | CHARACTER | 6   | DQEAENDD    | date               |
| 72      | (48) | SIGNED    | 4   | DQEAENDT    | time               |
| 76      | (4C) | SIGNED    | 4   | DQEDURATION | duration           |
| 80      | (50) | SIGNED    | 4   | DQEAENDT    | actual duration    |
| 84      | (54) | CHARACTER | 4   | DQEOPRKEY   | operation index    |
| 84      | (54) | UNSIGNED  | 3   | DQEOCCIDX   | occ number         |
| 87      | (57) | UNSIGNED  | 1   | DQEOPRIDX   | oper number        |
| 88      | (58) | CHARACTER | 4   | DQEERRCODE  | job error code     |
| 92      | (5C) | CHARACTER | 4   | DQEPREKEY   | pred oper index    |
| 92      | (5C) | UNSIGNED  | 3   | DQEPOCCIDX  | occ number         |
| 95      | (5F) | UNSIGNED  | 1   | DQEPOPRIIDX | oper number        |
| 96      | (60) | CHARACTER | 4   | *           | free               |

External buffer for dqecrt

It contains WLM data Policy and Service Class

| Offsets |      |           |     |             |                   |
|---------|------|-----------|-----|-------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description       |
| 0       | (0)  | STRUCTURE | 40  | DQECRTBUF   | DQE Type CRT      |
| 0       | (0)  | CHARACTER | 1   | DQEWLMPOL   | WLM policy        |
| 1       | (1)  | CHARACTER | 5   | *           | free              |
| 6       | (6)  | CHARACTER | 8   | DQEWLMCLASS | WLM Service Class |
| 14      | (E)  | CHARACTER | 10  | DQELSTART   | latest start      |
| 14      | (E)  | CHARACTER | 6   | DQELSTARTD  | latest start date |
| 20      | (14) | SIGNED    | 4   | DQELSTARTT  | ltst start time   |
| 24      | (18) | CHARACTER | 16  | DQEOPIA     | operation IA      |
| 24      | (18) | CHARACTER | 6   | DQEOPIAD    | date              |
| 30      | (1E) | CHARACTER | 4   | DQEOPIAT    | time              |
| 34      | (22) | CHARACTER | 6   | *           |                   |

#### Dynamic Critical Path

dqedata containing data sent to critical path handler

when a status change EM occurs or when the job is late or

long running WA

| Offsets |     |           |     |            |                                                                 |
|---------|-----|-----------|-----|------------|-----------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                     |
| 0       | (0) | STRUCTURE | 100 | DQECR1     | Crit Path recalc                                                |
| 0       | (0) | CHARACTER | 1   | DQESTATU1  | operation status                                                |
| 1       | (1) | CHARACTER | 1   | DQEEXSTAT1 | oper extended status                                            |
| 2       | (2) | CHARACTER | 2   | *          | free                                                            |
| 4       | (4) | SIGNED    | 4   | DQEJOBENI1 | job table entry index                                           |
| 8       | (8) | CHARACTER | 1   | DQEREQTYP1 | MCP request type S - status change L - Late<br>R - Long Running |
| 9       | (9) | CHARACTER | 1   | DQEOLDSTA1 | operation old status                                            |

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 10      | (A)  | BITSTRING | 1   | DQEFLAGS4  | flags                 |
|         |      | 1... ..   |     | DQEURGCH1  | doa urgent queue chng |
|         |      | .1... ..  |     | DQEDOAUR1  | doa urgent queue flag |
|         |      | ..1. .... |     | DQEWLMPRO1 | WLM promotion flag    |
|         |      | ...1 1111 |     | *          | free                  |
| 11      | (B)  | CHARACTER | 3   | *          | free                  |
| 14      | (E)  | CHARACTER | 10  | DQEASTAR1  | actual start time     |
| 14      | (E)  | CHARACTER | 6   | DQEASTAR1D | date                  |
| 20      | (14) | SIGNED    | 4   | DQEASTAR1T | time                  |
| 24      | (18) | CHARACTER | 2   | *          | free                  |
| 26      | (1A) | CHARACTER | 10  | DQEAEN1    | actual end time       |
| 26      | (1A) | CHARACTER | 6   | DQEAEN1D   | date                  |
| 32      | (20) | SIGNED    | 4   | DQEAEN1T   | time                  |
| 36      | (24) | SIGNED    | 4   | DQEACTDU1  | actual duration       |
| 40      | (28) | CHARACTER | 4   | DQEOPRKE1  | operation index       |
| 40      | (28) | UNSIGNED  | 3   | DQEOCCID1  | occ number            |
| 43      | (2B) | UNSIGNED  | 1   | DQEOPRID1  | oper number           |
| 44      | (2C) | CHARACTER | 4   | DQEERRCOD1 | job error code        |
| 48      | (30) | CHARACTER | 52  | *          | free                  |

| Offsets |     |           |     |            |                                                                                                                         |
|---------|-----|-----------|-----|------------|-------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                                                             |
| 0       | (0) | STRUCTURE | 100 | DQEARC     | DQE Type OPC Data Sto                                                                                                   |
| 0       | (0) | CHARACTER | 4   | DQEARCTYP  | Service Required LOG = get MVS JobLog<br>SLO = get Struct. Log OPI = ask Oper_info<br>SDEL= start delete of old entries |

common part

| Offsets |      |           |     |              |                                                                                 |
|---------|------|-----------|-----|--------------|---------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                                     |
| 4       | (4)  | CHARACTER | 24  | DQEARCJRKEY  | Job Log retrieval key                                                           |
| 4       | (4)  | CHARACTER | 8   | DQEARCJOBID  | Job Log Id                                                                      |
| 12      | (C)  | CHARACTER | 8   | DQEARCJOBNA  | Job Log Name                                                                    |
| 20      | (14) | SIGNED    | 4   | DQEARCRDRD   | Job Start Rdr Date                                                              |
| 24      | (18) | SIGNED    | 4   | DQEARCRDRT   | Job Start Rdr Time                                                              |
| 28      | (1C) | CHARACTER | 8   | DQEARCDEST   | output DEST                                                                     |
| 36      | (24) | CHARACTER | 16  | DQEARCADID   | Application Name                                                                |
| 52      | (34) | CHARACTER | 10  | DQEARCIA     | IA Date and Time                                                                |
| 52      | (34) | CHARACTER | 6   | DQEARCIADATE | IA Date                                                                         |
| 58      | (3A) | CHARACTER | 4   | DQEARCIATIME | IA Time                                                                         |
| 62      | (3E) | CHARACTER | 9   | DQEARCOPKEY  | Operation VSAM key                                                              |
| 62      | (3E) | CHARACTER | 8   | DQEARCOCC    | OCC token                                                                       |
| 70      | (46) | UNSIGNED  | 1   | DQEARCOPR    | Opr num                                                                         |
| 71      | (47) | CHARACTER | 2   | DQEARCCALLER | EM=Event manager WA=WorkStat.Analyzer<br>AR=Automatic Recover GS=General Server |

OPI type only

| Offsets |      |           |     |              |                       |
|---------|------|-----------|-----|--------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description           |
| 73      | (49) | CHARACTER | 1   | DQEARCFLA1   | flags (Ask Oper_Info) |
|         |      | 1... .... |     | ARC_PSUPOST  | 1 = post PSU          |
|         |      | .1.. .... |     | ARC_CLEANUP  | 1 = Stand Alone CLNUP |
|         |      | ..1. .... |     | ARC_SL       | 1 = StepList required |
|         |      | ...1 .... |     | ARC_DS       | 1 = DSList required   |
|         |      | .... 1... |     | ARC_EXPJCL   | 1 = use expanded JCL  |
|         |      | .... .1.. |     | ARC_BESTSTEP | 1 = start from BSTEP  |
|         |      | .... ..1. |     | ARC_NOASK    | 1 = cp14nostr ON      |

| Offsets |      |           |     |               |                      |
|---------|------|-----------|-----|---------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description          |
|         |      | .... ...1 |     | ARC_ASKSIMGDG | 1 = GDG sim required |
| 74      | (4A) | CHARACTER | 8   | *             | free                 |
| 82      | (52) | CHARACTER | 8   | DQEARCUSER    | original job user ID |

Clean Up only

| Offsets |      |           |     |              |                       |
|---------|------|-----------|-----|--------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description           |
| 90      | (5A) | CHARACTER | 8   | DQEARCEXDEST | execution destination |

AR restart only

| Offsets |      |          |     |              |                                      |
|---------|------|----------|-----|--------------|--------------------------------------|
| Dec     | Hex  | Type     | Len | Name (Dim)   | Description                          |
| 98      | (62) | UNSIGNED | 1   | DQEARCOPIRET | retry counter                        |
| 99      | (63) | UNSIGNED | 1   | DQEARCARSTE  | AR restart step (currently not used) |

AR restart only  
structure mapped into DQEARC buffer

| Offsets |     |           |     |              |                       |
|---------|-----|-----------|-----|--------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description           |
| 0       | (0) | STRUCTURE | 16  | DQEARCBUF    | DQE Type OPC Data Sto |
| 0       | (0) | CHARACTER | 8   | DQEARCSTEPN  | Stepname (AR)         |
| 8       | (8) | CHARACTER | 8   | DQEARCPSTEPN | Proc Step Name (AR)   |

Dynamic Critical Path



external buffer containing part of the critical predecessor  
network entry point and its predecessor See DCLJOBEN

#### External buffer for Critical Path

It contains the FOP first operations for an occurrence

| Offsets |     |           |     |               |                   |
|---------|-----|-----------|-----|---------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description       |
| 0       | (0) | STRUCTURE | *   | DQEFOP        | DQE Type FOP      |
| 0       | (0) | SIGNED    | 4   | DQEFOPCCNUM   | occurrence number |
| 4       | (4) | SIGNED    | 4   | DQEFOPNUM     | num of FOP in occ |
| 8       | (8) | CHARACTER | 2   | DQEFOPPOP (*) |                   |
| 8       | (8) | SIGNED    | 2   | DQEFOPPOPNUM  | operation number  |

#### NOTE

For the dqearc SDEL type the information are all contained  
in the buffer pointed by dqebptr  
dqebptr CP16 record layout

| Offsets |     |           |     |            |                                                                                                            |
|---------|-----|-----------|-----|------------|------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                                                |
| 0       | (0) | STRUCTURE | 100 | DQEPSU     | DQE Type OPC Data Sto                                                                                      |
| 0       | (0) | CHARACTER | 4   | DQEPSUTYP  | Service Required APL = Apply logic CLN =<br>Stand Alone CLN REM = resume suspended<br>DEL = delete request |

common part

| Offsets |     |           |     |              |             |
|---------|-----|-----------|-----|--------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description |
| 4       | (4) | CHARACTER | 45  | DQEPSUCOMMON |             |

| Offsets |      |           |     |              |                                                       |
|---------|------|-----------|-----|--------------|-------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                           |
| 4       | (4)  | CHARACTER | 2   | DQEPSUCALLER | FL=Fetch JobLog GS=General Server<br>EM=Event manager |
| 6       | (6)  | CHARACTER | 8   | DQEPSUJOBNA  | Job Name                                              |
| 14      | (E)  | CHARACTER | 9   | DQEPSUOPKEY  | Operation VSAM key                                    |
| 14      | (E)  | CHARACTER | 8   | DQEPSUOCC    | Occ token                                             |
| 22      | (16) | UNSIGNED  | 1   | DQEPSUOPR    | Opr num                                               |
| 23      | (17) | CHARACTER | 16  | DQEPSUADID   | Application Name                                      |
| 39      | (27) | CHARACTER | 10  | DQEPSUIA     | IA Date and Time                                      |
| 39      | (27) | CHARACTER | 6   | DQEPSUIADATE | IA Date                                               |
| 45      | (2D) | CHARACTER | 4   | DQEPSUIATIME | IA Time                                               |

GS only

| Offsets |      |           |     |             |                  |
|---------|------|-----------|-----|-------------|------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description      |
| 49      | (31) | CHARACTER | 8   | DQEPSUUSER  | TSO user ID      |
| 57      | (39) | CHARACTER | 4   | DQEPSUTOKEN | GS request token |

FL for AR only

| Offsets |      |           |     |              |                      |
|---------|------|-----------|-----|--------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description          |
| 61      | (3D) | CHARACTER | 8   | DQESTEPNAME  | AR restart step      |
| 69      | (45) | CHARACTER | 8   | DQEPSTEPNAME | AR restart proc step |

CLN type only

| Offsets |      |           |     |              |                |
|---------|------|-----------|-----|--------------|----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description    |
| 77      | (4D) | CHARACTER | 8   | DQEPSUEXDEST | execution DEST |

APL type only

| Offsets |      |           |     |               |                      |
|---------|------|-----------|-----|---------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description          |
| 85      | (55) | CHARACTER | 1   | DQEPSUFLA1    |                      |
|         |      | 1... ..   |     | PSU_EXPJCL    | 1 = use expanded JCL |
|         |      | .1.. ..   |     | PSU_SUSPEND   | 1 = suspend DQE      |
|         |      | ..1. .... |     | PSU_OPERINFO  | 1 = SL from buffer   |
|         |      | ...1 .... |     | PSU_USERSYS   | 1 = add usersys DD   |
|         |      | .... 1... |     | PSU_SIMGDG    | 1 = simulate GDG     |
|         |      | .... .1.. |     | PSU_ROOT      | 1 = GDG root list    |
|         |      | .... ..1. |     | PSU_BESTSTEP  | 1 = start from BSTEP |
|         |      | .... ...1 |     | PSU_ASKSIMGDG | 1 = req simulation   |

2 char2 free

2 dqePSULen

| Offsets |      |          |     |             |               |
|---------|------|----------|-----|-------------|---------------|
| Dec     | Hex  | Type     | Len | Name (Dim)  | Description   |
| 86      | (56) | UNSIGNED | 2   | PSU_SLLen   | SL length     |
| 88      | (58) | UNSIGNED | 3   | PSU_DSLEN   | DL length     |
| 91      | (5B) | UNSIGNED | 3   | PSU_GDGLen  | Sim. GDG info |
| 94      | (5E) | UNSIGNED | 2   | PSU_ROOTLEN | Root len      |
| 96      | (60) | SIGNED   | 4   | PSU_JCLLEN  | JCL length    |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 80  | DQEWLM     | sub WLM reset request     |
| 0       | (0)  | CHARACTER | 8   | DQETSOW    | Tso user ID or blank      |
| 8       | (8)  | CHARACTER | 8   | DQEJOBW    | jobSTC name               |
| 16      | (10) | CHARACTER | 8   | DQESVCW    | WLM Hi perf service class |
| 24      | (18) | CHARACTER | 4   | DQEWSDW    | workstation ID            |
| 28      | (1C) | CHARACTER | 16  | DQEADIDW   | application ID            |
| 44      | (2C) | CHARACTER | 10  | DQEOCIW    | occurrence input arrival  |
| 44      | (2C) | CHARACTER | 6   | DQEOCIAD   | occurrence IA date        |
| 50      | (32) | CHARACTER | 4   | DQEOCIAT   | occurrence IA time        |
| 54      | (36) | SIGNED    | 2   | DQEOPNUMW  | operation number          |
| 56      | (38) | CHARACTER | 4   | DQESSNAMW  | controller subsystem name |
| 60      | (3C) | UNSIGNED  | 2   | DQESSEQW   | submit sequence           |

2 dqejidW char8 job of last subbed job

2 char2 reserved

| Offsets |      |        |     |            |             |
|---------|------|--------|-----|------------|-------------|
| Dec     | Hex  | Type   | Len | Name (Dim) | Description |
| 62      | (3E) | SIGNED | 2   | DQEASIDW   | job asid    |

2 dqetokenfullW operation token

3 dqetokenpreW char4 operation token prefix

3 dqetokenW unsigned bin32 operation token

2 dqeaccmpW ptr31 acc meth parms

2 dqenetidW char8 APPC netid final dest

2 dqenetLUW char8 semi APPC netLU final dest

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 64      | (40) | SIGNED    | 4   | DQERETCW   | WLM promot request RC  |
| 68      | (44) | SIGNED    | 2   | DQERSNCW   | WLM promot request RSN |
| 70      | (46) | CHARACTER | 10  | *          | reserved               |

| Offsets |     |           |     |                 |                   |
|---------|-----|-----------|-----|-----------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)      | Description       |
| 0       | (0) | STRUCTURE | 8   | DQETCPIP        | tcpip evt mapping |
| 0       | (0) | ADDRESS   | 4   | DQESOCKETIDPTR  |                   |
| 4       | (4) | CHARACTER | 4   | DQESOCKETDOMAIN |                   |

| Offsets |      |           |     |                 |                   |
|---------|------|-----------|-----|-----------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description       |
| 0       | (0)  | STRUCTURE | 18  | DQECONFFILE     | Conf File mapping |
| 0       | (0)  | CHARACTER | 1   | DQEREQUESTTYPE  |                   |
| 1       | (1)  | CHARACTER | 3   | *               |                   |
| 4       | (4)  | CHARACTER | 4   | DQEREQUESTCRC   |                   |
| 8       | (8)  | CHARACTER | 8   | DQECRCOWNERDEST |                   |
| 16      | (10) | SIGNED    | 2   | DQEDTBDESTINDEX |                   |

| Offsets |      |           |     |               |                                             |
|---------|------|-----------|-----|---------------|---------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                 |
| 0       | (0)  | STRUCTURE | 44  | DQEHTTPACTION | HTTP Joblog retrieval Kill Query job status |
| 0       | (0)  | CHARACTER | 8   | DQEHTOCCTOKEN | HTTP occurrence token                       |
| 8       | (8)  | CHARACTER | 8   | DQEHTSUBTOKEN | HTTP submission token                       |
| 16      | (10) | CHARACTER | 8   | DQEHTJOBNAME  | HTTP job name                               |
| 24      | (18) | CHARACTER | 4   | DQEHTWSNAME   | HTTP ws name                                |
| 28      | (1C) | CHARACTER | 4   | DQEHTSSNAME   | HTTP subsystem name                         |
| 32      | (20) | SIGNED    | 2   | DQEHTOPNUM    | HTTP operation number                       |
| 34      | (22) | SIGNED    | 2   | *             | reserved                                    |
| 36      | (24) | CHARACTER | 8   | DQEHTUSER     | HTTP joblog req user                        |

| Offsets |     |           |     |             |             |
|---------|-----|-----------|-----|-------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description |
| 0       | (0) | STRUCTURE | 100 | DQEHTNOTIFY | HTTP notify |
| 0       | (0) | CHARACTER | 56  | DQEHNALIAS  | alias       |

| Offsets |      |           |     |              |                      |
|---------|------|-----------|-----|--------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description          |
| 56      | (38) | CHARACTER | 4   | DQEHNERRC    | error code (stat EF) |
| 60      | (3C) | CHARACTER | 6   | DQEHNSTARTD  | start date           |
| 66      | (42) | CHARACTER | 6   | DQEHNNDD     | end date             |
| 72      | (48) | SIGNED    | 4   | DQEHNSTARTT  | start time           |
| 76      | (4C) | SIGNED    | 4   | DQEHNNDDT    | end time             |
| 80      | (50) | CHARACTER | 8   | DQEHNXDTOKEN | XD99 key             |
| 88      | (58) | SIGNED    | 4   | DQEHNADUR    | duration in seconds  |
| 92      | (5C) | CHARACTER | 1   | DQEHNSTATUS  | status (sSCEF)       |
| 93      | (5D) | CHARACTER | 7   | *            | free                 |

| Offsets |      |           |     |              |                           |
|---------|------|-----------|-----|--------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description               |
| 0       | (0)  | STRUCTURE | 100 | DQEHTINFO    | HTTP bind infofailed      |
| 0       | (0)  | CHARACTER | 56  | DQEHIALIAS   | alias                     |
| 56      | (38) | CHARACTER | 8   | DQEHJOBNAME  | matched jobname           |
| 64      | (40) | CHARACTER | 10  | DQEHIIA      | matched ia                |
| 64      | (40) | CHARACTER | 6   | DQEHIIAD     | &period..IA date          |
| 70      | (46) | CHARACTER | 4   | DQEHIIAT     | &period..IA time          |
| 74      | (4A) | CHARACTER | 1   | DQEHITYPE    | I=info, F=failed          |
| 75      | (4B) | CHARACTER | 1   | DQEHIFLAGS   | flags                     |
|         |      | 1... ..   |     | DQEHIBCP     | &period..ON bin dis in CP |
|         |      | .111 1111 |     | *            | &period..free             |
| 76      | (4C) | CHARACTER | 8   | DQEHIXDTOKEN | XD99 key                  |
| 84      | (54) | CHARACTER | 4   | DQEHWSNAME   | matched ws name           |
| 88      | (58) | CHARACTER | 12  | *            | free                      |

| Offsets |     |           |     |             |                |
|---------|-----|-----------|-----|-------------|----------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description    |
| 0       | (0) | STRUCTURE | 100 | DQEHTSUBSCR | HTTP subscribe |

| Offsets |      |           |     |               |                                  |
|---------|------|-----------|-----|---------------|----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                      |
| 0       | (0)  | CHARACTER | 35  | DQEHSRKEYZ    | remote job key                   |
| 0       | (0)  | CHARACTER | 16  | DQEHSADID     | &period..remote adidjsname (DZ)  |
| 16      | (10) | CHARACTER | 16  | DQEHSJSWS     | &period..remote jsws (D)         |
| 32      | (20) | CHARACTER | 3   | DQEHSOPNO     | &period..remote opno (Z)         |
| 35      | (23) | CHARACTER | 1   | DQEHSFLAGS    | flags                            |
|         |      | 1... ..   |     | DQEHSZOS      | &period..ON remote eng type is Z |
|         |      | .1... ..  |     | DQEHSRESUB    | &period..ON resub for sync       |
|         |      | ..11 1111 |     | *             | &period..free                    |
| 36      | (24) | CHARACTER | 2   | *             | free                             |
| 38      | (26) | CHARACTER | 10  | DQEHSIA       | IA for match                     |
| 38      | (26) | CHARACTER | 6   | DQEHSIAD      | &period..IA date                 |
| 44      | (2C) | CHARACTER | 4   | DQEHSIAT      | &period..IA time                 |
| 48      | (30) | CHARACTER | 52  | DQEHSALIAS    | data for alias                   |
| 48      | (30) | CHARACTER | 8   | DQEHSOCCTOKEN | &period..occurence token         |
| 56      | (38) | CHARACTER | 8   | DQEHSUBTOKEN  | &period..submission token        |
| 64      | (40) | CHARACTER | 8   | DQEHSJOBNAME  | &period..job name                |
| 72      | (48) | CHARACTER | 4   | DQEHSWSNAME   | &period..ws name                 |
| 76      | (4C) | CHARACTER | 4   | DQEHSSSNAME   | &period..subsystem name          |
| 80      | (50) | SIGNED    | 2   | DQEHSOPNUM    | &period..operation number        |
| 82      | (52) | CHARACTER | 18  | *             | free                             |

| Offsets |      |           |     |               |                    |
|---------|------|-----------|-----|---------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description        |
| 0       | (0)  | STRUCTURE | 100 | DQEHTINCIDENT | HTTP open incident |
| 0       | (0)  | CHARACTER | 16  | DQEHTINCADID  | jobstream          |
| 16      | (10) | CHARACTER | 4   | DQEHTINCWS    | workstation        |
| 20      | (14) | CHARACTER | 4   | DQEHTINCOPNO  | oper number        |
| 24      | (18) | CHARACTER | 10  | DQEHTINCIA    | IA for match       |

| Offsets |      |           |     |                 |                    |
|---------|------|-----------|-----|-----------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description        |
| 24      | (18) | CHARACTER | 6   | DQEHTINCIAD     | &period..IA date   |
| 30      | (1E) | CHARACTER | 4   | DQEHTINCIAT     | &period..IA time   |
| 34      | (22) | CHARACTER | 8   | DQEHTINCJOBNAME | job name           |
| 42      | (2A) | CHARACTER | 8   | DQEHTINCJOBNUM  | job number         |
| 50      | (32) | CHARACTER | 4   | DQEHTINCERRCODE | Error code         |
| 54      | (36) | CHARACTER | 4   | DQEHTINCSSNAME  | subsystem name     |
| 58      | (3A) | BITSTRING | 1   | DQEHTINCFLAGS   | flags              |
|         |      | 1... ..   |     | DQEHTINCE2E     | use E2E error code |
|         |      | .111 1111 |     | *               | reserved           |
| 59      | (3B) | CHARACTER | 1   | *               | reserved           |
| 60      | (3C) | SIGNED    | 4   | DQEHTINCE2ECODE | E2E error code     |
| 64      | (40) | CHARACTER | 24  | DQEHTINCOPTTEXT | operation text     |
| 88      | (58) | CHARACTER | 12  | *               | free               |

| Offsets |     |           |     |             |                |
|---------|-----|-----------|-----|-------------|----------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description    |
| 0       | (0) | STRUCTURE | 40  | DQEHSBUFF   | DQE Type HTS   |
| 0       | (0) | CHARACTER | 40  | DQEHSRJOBNM | remote jobname |

## BK CON Send JT event

| Offsets |     |           |     |                 |                |
|---------|-----|-----------|-----|-----------------|----------------|
| Dec     | Hex | Type      | Len | Name (Dim)      | Description    |
| 0       | (0) | STRUCTURE | 100 | DQEJTX          |                |
| 0       | (0) | CHARACTER | 2   | DQEJTX_JTTYP    | JTx event type |
| 2       | (2) | CHARACTER | 1   | DQEJTX_EXTRABUF | YN             |



| Offsets |      |           |     |                |                                      |
|---------|------|-----------|-----|----------------|--------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                          |
| 3       | (3)  | UNSIGNED  | 1   | DQEJTX_JTID    | JTx id ( 1 to 99)                    |
| 4       | (4)  | SIGNED    | 4   | DQEJTX_JTSEQNO | JTx seqno within JT                  |
| 8       | (8)  | CHARACTER | 4   | DQEJTX_JTDAT   | JTx date                             |
| 12      | (C)  | UNSIGNED  | 4   | DQEJTX_JTTIM   | JTx time                             |
| 16      | (10) | UNSIGNED  | 2   | DQEJTX_CPRUN   | CP run number (1 to 65535)           |
| 18      | (12) | UNSIGNED  | 2   | DQEJTX_LTRUN   | LT run number (1 to 65535)           |
| 20      | (14) | CHARACTER | 8   | DQEJTX_CPTOD   | CP tod                               |
| 28      | (1C) | CHARACTER | 8   | DQEJTX_LTTOD   | LT tod                               |
| 36      | (24) | CHARACTER | 8   | DQEJTX_CURCPDD | current cp ddname                    |
| 44      | (2C) | CHARACTER | 4   | DQEJTX_ORIGBKD | Orig bk date                         |
| 48      | (30) | SIGNED    | 4   | DQEJTX_ORIGBKT | Orig bk time                         |
| 52      | (34) | CHARACTER | 4   | DQEJTX_JTFIL   | logical file (trl 32)                |
| 56      | (38) | CHARACTER | 1   | DQEJTX_JTFSNT  | Y first JTX after stop event sending |
| 57      | (39) | CHARACTER | 43  | *              | free                                 |

BK CON Sync request BS1

NOTE: Currently not used The DQE sent is of type EVT and the  
BS1 info are passed via the EXY event

| Offsets |      |           |     |              |                 |
|---------|------|-----------|-----|--------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description     |
| 0       | (0)  | STRUCTURE | 72  | DQEBS1       |                 |
| 0       | (0)  | UNSIGNED  | 2   | DQEBS1_CPRUN | CP run number   |
| 2       | (2)  | CHARACTER | 8   | DQEBS1_CPTOD | CP tod          |
| 10      | (A)  | UNSIGNED  | 2   | DQEBS1_LTRUN | LTP run number  |
| 12      | (C)  | CHARACTER | 8   | DQEBS1_LTTOD | CP tod          |
| 20      | (14) | CHARACTER | 1   | DQEBS1_CP    | Y CP plan exist |
| 21      | (15) | CHARACTER | 1   | DQEBS1_LT    | Y LT plan exist |

| Offsets |      |           |     |                   |                                                                                                              |
|---------|------|-----------|-----|-------------------|--------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description                                                                                                  |
| 22      | (16) | CHARACTER | 1   | DQEBS1_REQ        | A ask Primary will send requested plans<br>C check Primary will check and send if<br>needed disaligned plans |
| 23      | (17) | CHARACTER | 1   | *                 | free                                                                                                         |
| 24      | (18) | UNSIGNED  | 4   | DQEBS1_CURJTSEQNO | current JT seqno of BACKUP Controller                                                                        |
| 28      | (1C) | CHARACTER | 4   | DQEBS1_PHASE      | START BS1 = INIT                                                                                             |
| 32      | (20) | CHARACTER | 40  | *                 |                                                                                                              |

BK CON Sync answer BS2

| Offsets |      |           |     |                   |                                                                                                                                                                                         |
|---------|------|-----------|-----|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description                                                                                                                                                                             |
| 0       | (0)  | STRUCTURE | 72  | DQEBS2            |                                                                                                                                                                                         |
| 0       | (0)  | UNSIGNED  | 2   | DQEBS2_CPRUN      | CP run number                                                                                                                                                                           |
| 2       | (2)  | CHARACTER | 8   | DQEBS2_CPTOD      | CP tod                                                                                                                                                                                  |
| 10      | (A)  | UNSIGNED  | 2   | DQEBS2_LTRUN      | LTP ru number                                                                                                                                                                           |
| 12      | (C)  | CHARACTER | 8   | DQEBS2_LTTOD      | CP tod                                                                                                                                                                                  |
| 20      | (14) | CHARACTER | 1   | DQEBS2_CP         | Y CP plan exist                                                                                                                                                                         |
| 21      | (15) | CHARACTER | 1   | DQEBS2_LT         | Y LT plan exist                                                                                                                                                                         |
| 22      | (16) | CHARACTER | 1   | DQEBS2_REQ        | A ask Primary will send requested plans<br>C check Primary will check and send if<br>needed disaligned plans R refresh Primary<br>has done a refresh and inform Backup via<br>BS2 event |
| 23      | (17) | CHARACTER | 1   | DQEBS2_REFRESH    | Y N                                                                                                                                                                                     |
| 24      | (18) | CHARACTER | 1   | DQEBS2_RESEND CP  | Y N                                                                                                                                                                                     |
| 25      | (19) | CHARACTER | 1   | DQEBS2_RESEND LTP | Y N                                                                                                                                                                                     |
| 26      | (1A) | CHARACTER | 1   | DQEBS2_RESEND JT  | Y N                                                                                                                                                                                     |
| 27      | (1B) | CHARACTER | 1   | *                 |                                                                                                                                                                                         |

| Offsets |      |           |     |                   |                    |
|---------|------|-----------|-----|-------------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description        |
| 28      | (1C) | UNSIGNED  | 4   | DQEBS2_STRJTSEQNO | BS1 seqno          |
| 32      | (20) | UNSIGNED  | 4   | DQEBS2_ENDJTSEQNO | BS2 seqno          |
| 36      | (24) | UNSIGNED  | 4   | DQEBS2_TRLSEQNO   | CP header trlseqno |
| 40      | (28) | CHARACTER | 32  | *                 |                    |

BK CON BT online offline

| Offsets |     |           |     |             |                         |
|---------|-----|-----------|-----|-------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description             |
| 0       | (0) | STRUCTURE | 48  | DQEBS3      |                         |
| 0       | (0) | CHARACTER | 8   | DQEBS3_TYPE | - 'ONLINE ' - 'OFFLINE' |
| 8       | (8) | CHARACTER | 40  | *           |                         |

BK CON REPRO and SEND VSAM jcl info

| Offsets |      |           |     |                |                                                                                                                                              |
|---------|------|-----------|-----|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                                                                                                                  |
| 0       | (0)  | STRUCTURE | 100 | DQEBSE         |                                                                                                                                              |
| 0       | (0)  | UNSIGNED  | 2   | DQEBSE_RUNCP   | CP run number                                                                                                                                |
| 2       | (2)  | CHARACTER | 8   | DQEBSE_TODCP   | CP tod                                                                                                                                       |
| 10      | (A)  | UNSIGNED  | 2   | DQEBSE_RUNLTP  | LTP run number                                                                                                                               |
| 12      | (C)  | CHARACTER | 8   | DQEBSE_TODLTP  | LTP tod                                                                                                                                      |
| 20      | (14) | CHARACTER | 4   | DQEBSE_TYPE    | LTP EQQSENLT NCP EQQSENC CP1<br>EQQSECP1 CP2 EQQSECP2 AD ssnmSAD<br>RD ssnmSRD WS ssnmSWS OI ssnmSOI SI<br>ssnmSSI JS1 ssnmSJS1 JS2 ssnmSJS2 |
| 24      | (18) | SIGNED    | 4   | DQEBSE_RC      | JCL RC                                                                                                                                       |
| 28      | (1C) | CHARACTER | 8   | DQEBSE_JOBNAME | job name                                                                                                                                     |

| Offsets |      |           |     |              |                |
|---------|------|-----------|-----|--------------|----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description    |
| 36      | (24) | CHARACTER | 8   | DQEBSE_JOBID | job id         |
| 44      | (2C) | CHARACTER | 1   | DQEBSE_CAN   | cancelled (YN) |
| 45      | (2D) | CHARACTER | 55  | *            |                |

BK CON RECEIVED and RESTORE jcl info

| Offsets |      |           |     |              |                                                                                                                                              |
|---------|------|-----------|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                                                                                                  |
| 0       | (0)  | STRUCTURE | 100 | DQEBRE       |                                                                                                                                              |
| 0       | (0)  | CHARACTER | 1   | DQEBRE_CAN   | canceled (YN)                                                                                                                                |
| 1       | (1)  | CHARACTER | 3   | *            | free                                                                                                                                         |
| 4       | (4)  | CHARACTER | 8   | DQEBRE_JOBID | job nm                                                                                                                                       |
| 12      | (C)  | CHARACTER | 8   | DQEBRE_JOBID | job id                                                                                                                                       |
| 20      | (14) | CHARACTER | 4   | DQEBRE_TYPE  | LTP EQQRESTP NCP EQQRENC CP1<br>EQQRECP1 CP2 EQQRECP2 AD ssnmRAD<br>RD ssnmRRD WS ssnmRWS OI ssnmROI SI<br>ssnmRSI JS1 ssnmRJS1 JS2 ssnmRJS2 |
| 24      | (18) | SIGNED    | 4   | DQEBRE_RC    | JCL RC                                                                                                                                       |
| 28      | (1C) | CHARACTER | 72  | *            |                                                                                                                                              |

## Cross reference

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| ARC_ASKSIMGDG | 49         | 01        | 3     |
| ARC_BESTSTEP  | 49         | 04        | 3     |
| ARC_CLEANUP   | 49         | 40        | 3     |
| ARC_DS        | 49         | 10        | 3     |
| ARC_EXPJCL    | 49         | 08        | 3     |
| ARC_NOASK     | 49         | 02        | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| ARC_PSUPOST  | 49         | 80        | 3     |
| ARC_SL       | 49         | 20        | 3     |
| DQE          | 0          |           | 1     |
| DQEACTIONDUR | 50         |           | 2     |
| DQEACTIONDU1 | 24         |           | 2     |
| DQEADDER     | 90         |           | 2     |
| DQEADJOB     | 7          | 40        | 3     |
| DQEADID      | 1C         |           | 2     |
| DQEADIDW     | 1C         |           | 2     |
| DQEAEND      | 42         |           | 2     |
| DQEAENDD     | 42         |           | 3     |
| DQEAENDT     | 48         |           | 3     |
| DQEAEN1      | 1A         |           | 2     |
| DQEAEN1D     | 1A         |           | 3     |
| DQEAEN1T     | 20         |           | 3     |
| DQEARC       | 0          |           | 1     |
| DQEARCADID   | 24         |           | 2     |
| DQEARCARSTE  | 63         |           | 2     |
| DQEARCBUF    | 0          |           | 1     |
| DQEARCCALLER | 47         |           | 2     |
| DQEARCDEST   | 1C         |           | 2     |
| DQEARCEXDEST | 5A         |           | 2     |
| DQEARCFLA1   | 49         |           | 2     |
| DQEARCIA     | 34         |           | 2     |
| DQEARCIADATE | 34         |           | 3     |
| DQEARCIATIME | 3A         |           | 3     |
| DQEARCJOBID  | 4          |           | 3     |
| DQEARCJOBNA  | C          |           | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| DQEARCJRKEY  | 4          |           | 2     |
| DQEARCOCC    | 3E         |           | 3     |
| DQEARCOPIRET | 62         |           | 2     |
| DQEARCOPKEY  | 3E         |           | 2     |
| DQEARCOPR    | 46         |           | 3     |
| DQEARCPSTEPN | 8          |           | 2     |
| DQEARCRDRD   | 14         |           | 3     |
| DQEARCRDRT   | 18         |           | 3     |
| DQEARCSTEPN  | 0          |           | 2     |
| DQEARCTYP    | 0          |           | 2     |
| DQEARCUSER   | 52         |           | 2     |
| DQEASEQ      | 20         |           | 2     |
| DQEASID      | 46         |           | 2     |
| DQEASIDW     | 3E         |           | 2     |
| DQEASSNAM    | 2C         |           | 2     |
| DQEASTART    | 36         |           | 2     |
| DQEASTARTD   | 36         |           | 3     |
| DQEASTARTT   | 3C         |           | 3     |
| DQEASTAR1    | E          |           | 2     |
| DQEASTAR1D   | E          |           | 3     |
| DQEASTAR1T   | 14         |           | 3     |
| DQEAWSID     | 22         |           | 2     |
| DQEBLEN      | 14         |           | 2     |
| DQEBLTOT     | 24         |           | 2     |
| DQEBPTR      | 10         |           | 2     |
| DQEBRE       | 0          |           | 1     |
| DQEBRE_CAN   | 0          |           | 2     |
| DQEBRE_JOBID | C          |           | 2     |

| Name              | Hex Offset | Hex Value | Level |
|-------------------|------------|-----------|-------|
| DQEBRE_JOBNM      | 4          |           | 2     |
| DQEBRE_RC         | 18         |           | 2     |
| DQEBRE_TYPE       | 14         |           | 2     |
| DQEBSE            | 0          |           | 1     |
| DQEBSE_CAN        | 2C         |           | 2     |
| DQEBSE_JOBID      | 24         |           | 2     |
| DQEBSE_JOBNM      | 1C         |           | 2     |
| DQEBSE_RC         | 18         |           | 2     |
| DQEBSE_RUNCP      | 0          |           | 2     |
| DQEBSE_RUNLTP     | A          |           | 2     |
| DQEBSE_TODCP      | 2          |           | 2     |
| DQEBSE_TODLTP     | C          |           | 2     |
| DQEBSE_TYPE       | 14         |           | 2     |
| DQEBSNBR          | 28         |           | 2     |
| DQEBSTOT          | 2A         |           | 2     |
| DQEBS1            | 0          |           | 1     |
| DQEBS1_CP         | 14         |           | 2     |
| DQEBS1_CPRUN      | 0          |           | 2     |
| DQEBS1_CPTOD      | 2          |           | 2     |
| DQEBS1_CURJTSEQNO | 18         |           | 2     |
| DQEBS1_LT         | 15         |           | 2     |
| DQEBS1_LTRUN      | A          |           | 2     |
| DQEBS1_LTTOD      | C          |           | 2     |
| DQEBS1_PHASE      | 1C         |           | 2     |
| DQEBS1_REQ        | 16         |           | 2     |
| DQEBS2            | 0          |           | 1     |
| DQEBS2_CP         | 14         |           | 2     |
| DQEBS2_CPRUN      | 0          |           | 2     |

| Name              | Hex Offset | Hex Value | Level |
|-------------------|------------|-----------|-------|
| DQEBS2_CPTOD      | 2          |           | 2     |
| DQEBS2_ENDJTSEQNO | 20         |           | 2     |
| DQEBS2_LT         | 15         |           | 2     |
| DQEBS2_LTRUN      | A          |           | 2     |
| DQEBS2_LTTOD      | C          |           | 2     |
| DQEBS2_REFRESH    | 17         |           | 2     |
| DQEBS2_REQ        | 16         |           | 2     |
| DQEBS2_RESENDTCP  | 18         |           | 2     |
| DQEBS2_RESENDJT   | 1A         |           | 2     |
| DQEBS2_RESENDLTP  | 19         |           | 2     |
| DQEBS2_STRJTSEQNO | 1C         |           | 2     |
| DQEBS2_TRLSEQNO   | 24         |           | 2     |
| DQEBS3            | 0          |           | 1     |
| DQEBS3_TYPE       | 0          |           | 2     |
| DQECKP            | 46         | 80        | 3     |
| DQECLJ            | 0          |           | 1     |
| DQECLJOB          | 0          |           | 2     |
| DQECMEXS          | B          | 40        | 3     |
| DQECMINI          | 0          |           | 1     |
| DQECMJOB          | 0          |           | 2     |
| DQECMOCC          | 8          |           | 2     |
| DQECMOPR          | C          |           | 2     |
| DQECMRT           | 10         |           | 2     |
| DQECONFFILE       | 0          |           | 1     |
| DQECRCOWNERDEST   | 8          |           | 2     |
| DQECREAT          | 4          |           | 2     |
| DQECRITIND        | 1D         |           | 2     |
| DQECRT            | 0          |           | 1     |



| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| DQECRTBUF       | 0          |           | 1     |
| DQECR1          | 0          |           | 1     |
| DQECYC          | 4          |           | 3     |
| DQEDATA         | 2C         |           | 2     |
| DQEDATE         | 4          |           | 3     |
| DQEDEADL        | 2A         |           | 2     |
| DQEDEADLD       | 2A         |           | 3     |
| DQEDEADLT       | 30         |           | 3     |
| DQEDESC         | 0          |           | 2     |
| DQEDEST         | 18         |           | 2     |
| DQEDOaur1       | A          | 40        | 3     |
| DQEDSCLAS       | 5          |           | 2     |
| DQEDTBDESTINDEX | 10         |           | 2     |
| DQEDURATION     | 4C         |           | 2     |
| DQEECBP         | C          |           | 2     |
| DQEEDP          | 8          |           | 2     |
| DQEEDPREC       | C          |           | 3     |
| DQEEDPWCY       | 8          |           | 3     |
| DQEEND          | 98         |           | 2     |
| DQEEOPTP        | 50         |           | 2     |
| DQEERRCODE      | 58         |           | 2     |
| DQEERRCOD1      | 2C         |           | 2     |
| DQEEVT          | 0          |           | 1     |
| DQEEVTS         | 96         |           | 2     |
| DQEEXR          | 14         |           | 2     |
| DQEEXSTAT       | 5          |           | 2     |
| DQEEXSTAT1      | 1          |           | 2     |
| DQEFLAGS        | B          |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| DQEFLAGS1    | 94         |           | 2     |
| DQEFLAGS2    | 6          |           | 2     |
| DQEFLAGS3    | 7          |           | 2     |
| DQEFLAGS4    | A          |           | 2     |
| DQEFLRES     | B          | 80        | 3     |
| DQEFOP       | 0          |           | 1     |
| DQEFOPNUM    | 4          |           | 2     |
| DQEFOPOCCNUM | 0          |           | 2     |
| DQEFOPOP     | 8          |           | 2     |
| DQEFOPOPNUM  | 8          |           | 3     |
| DQEHIALIAS   | 0          |           | 2     |
| DQEHIBCP     | 4B         | 80        | 3     |
| DQEHIFLAGS   | 4B         |           | 2     |
| DQEHIIA      | 40         |           | 2     |
| DQEHIIAD     | 40         |           | 3     |
| DQEHIIAT     | 46         |           | 3     |
| DQEHIOBNAME  | 38         |           | 2     |
| DQEHITYPE    | 4A         |           | 2     |
| DQEHISNAME   | 54         |           | 2     |
| DQEHIXDTOKEN | 4C         |           | 2     |
| DQEHNADUR    | 58         |           | 2     |
| DQEHNALIAS   | 0          |           | 2     |
| DQEHNENDD    | 42         |           | 2     |
| DQEHNENDT    | 4C         |           | 2     |
| DQEHNERRC    | 38         |           | 2     |
| DQEHNSTARTD  | 3C         |           | 2     |
| DQEHNSTARTT  | 48         |           | 2     |
| DQEHNSTATUS  | 5C         |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| DQEHNXDTOKEN   | 50         |           | 2     |
| DQEHSADID      | 0          |           | 3     |
| DQEHSALIAS     | 30         |           | 2     |
| DQEHSBUFF      | 0          |           | 1     |
| DQEHSFLAGS     | 23         |           | 2     |
| DQEHSIA        | 26         |           | 2     |
| DQEHSIAD       | 26         |           | 3     |
| DQEHSIAT       | 2C         |           | 3     |
| DQEHSJOBNAME   | 40         |           | 3     |
| DQEHSJSWS      | 10         |           | 3     |
| DQEHSOCCTOKEN  | 30         |           | 3     |
| DQEHSOPNO      | 20         |           | 3     |
| DQEHSOPNUM     | 50         |           | 3     |
| DQEHSRESUB     | 23         | 40        | 3     |
| DQEHSRJOBNM    | 0          |           | 2     |
| DQEHSRKEYZ     | 0          |           | 2     |
| DQEHSSSNAME    | 4C         |           | 3     |
| DQEHSSTOKEN    | 38         |           | 3     |
| DQEHSWSNAME    | 48         |           | 3     |
| DQEHSZOS       | 23         | 80        | 3     |
| DQHTINCADID    | 0          |           | 2     |
| DQHTINCERRCODE | 32         |           | 2     |
| DQHTINCE2E     | 3A         | 80        | 3     |
| DQHTINCE2ECODE | 3C         |           | 2     |
| DQHTINCFLAGS   | 3A         |           | 2     |
| DQHTINCIA      | 18         |           | 2     |
| DQHTINCIAD     | 18         |           | 3     |
| DQHTINCIAT     | 1E         |           | 3     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| DQEHTINCIDENT   | 0          |           | 1     |
| DQEHTINCJOBNAME | 22         |           | 2     |
| DQEHTINCJOBNUM  | 2A         |           | 2     |
| DQEHTINCOPNO    | 14         |           | 2     |
| DQEHTINCOPTTEXT | 40         |           | 2     |
| DQEHTINCSSNAME  | 36         |           | 2     |
| DQEHTINCWS      | 10         |           | 2     |
| DQEHTINFO       | 0          |           | 1     |
| DQEHTJOBNAME    | 10         |           | 2     |
| DQEHTNOTIFY     | 0          |           | 1     |
| DQEHTOCCTOKEN   | 0          |           | 2     |
| DQEHTOPNUM      | 20         |           | 2     |
| DQEHTSSNAME     | 1C         |           | 2     |
| DQEHTSUBSCR     | 0          |           | 1     |
| DQEHTSUBTOKEN   | 8          |           | 2     |
| DQEHTTPACTION   | 0          |           | 1     |
| DQEHTUSER       | 24         |           | 2     |
| DQEHTWSNAME     | 18         |           | 2     |
| DQEINDPRED      | 18         |           | 2     |
| DQEINPARR       | 1E         |           | 2     |
| DQEINPARRD      | 1E         |           | 3     |
| DQEINPARRT      | 24         |           | 3     |
| DQEISFIRST      | 7          | 80        | 3     |
| DQEISLAST       | 7          | 20        | 3     |
| DQEJDEST        | 14         |           | 2     |
| DQEJID          | 3E         |           | 2     |
| DQEJOBENIX      | 10         |           | 2     |
| DQEJOBENI1      | 4          |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| DQEJOB         | C          |           | 2     |
| DQEJOBNAME     | 8          |           | 2     |
| DQEJOB         | 8          |           | 2     |
| DQEJOB         | 14         |           | 2     |
| DQJTX          | 0          |           | 1     |
| DQJTX_CPRUN    | 10         |           | 2     |
| DQJTX_CPTOD    | 14         |           | 2     |
| DQJTX_CURCPDD  | 24         |           | 2     |
| DQJTX_EXTRABUF | 2          |           | 2     |
| DQJTX_JTDAT    | 8          |           | 2     |
| DQJTX_JTFIL    | 34         |           | 2     |
| DQJTX_JTFSENT  | 38         |           | 2     |
| DQJTX_JTID     | 3          |           | 2     |
| DQJTX_JTSEQNO  | 4          |           | 2     |
| DQJTX_JTTIM    | C          |           | 2     |
| DQJTX_JTTYP    | 0          |           | 2     |
| DQJTX_LTRUN    | 12         |           | 2     |
| DQJTX_LTTOD    | 1C         |           | 2     |
| DQJTX_ORIGBKD  | 2C         |           | 2     |
| DQJTX_ORIGBKT  | 30         |           | 2     |
| DQELSTART      | E          |           | 2     |
| DQELSTARTD     | E          |           | 3     |
| DQELSTARTT     | 14         |           | 3     |
| DQEMANHELD     | 6          | 40        | 3     |
| DQEMHELDCH     | 6          | 20        | 3     |
| DQENCKPT       | B          | 20        | 3     |
| DQENETID       | 54         |           | 2     |
| DQENETLU       | 5C         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| DQENNUM    | 0          |           | 2     |
| DQENOEDP   | B          | 08        | 3     |
| DQENOPCH   | 6          | 10        | 3     |
| DQENOPED   | 6          | 80        | 3     |
| DQENREC    | 14         |           | 2     |
| DQEOCCIDX  | 54         |           | 3     |
| DQEOCCID1  | 28         |           | 3     |
| DQEOCCTOK1 | 48         |           | 4     |
| DQEOCCTOK2 | 4C         |           | 4     |
| DQEOCIA    | 2C         |           | 2     |
| DQEOCIAD   | 2C         |           | 3     |
| DQEOCIAT   | 32         |           | 3     |
| DQEOCIAW   | 2C         |           | 2     |
| DQEOLDSTAT | 1C         |           | 2     |
| DQEOLDSTA1 | 9          |           | 2     |
| DQEOPIA    | 18         |           | 2     |
| DQEOPIACH  | 6          | 02        | 3     |
| DQEOPIAD   | 18         |           | 3     |
| DQEOPIAT   | 1E         |           | 3     |
| DQEOPNUM   | 36         |           | 2     |
| DQEOPNUMW  | 36         |           | 2     |
| DQEOPRIDX  | 57         |           | 3     |
| DQEOPRID1  | 2B         |           | 3     |
| DQEOPRKEY  | 54         |           | 2     |
| DQEOPRKE1  | 28         |           | 2     |
| DQEPACE    | B          | 10        | 3     |
| DQEPOCCIDX | 5C         |           | 3     |
| DQEPOPRIDX | 5F         |           | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| DQEPOS       | 4          |           | 2     |
| DQEPREKEY    | 5C         |           | 2     |
| DQEPROMOTE   | 46         | 40        | 3     |
| DQEPSTEPNAME | 45         |           | 2     |
| DQEPSU       | 0          |           | 1     |
| DQEPSUADID   | 17         |           | 3     |
| DQEPSUCALLER | 4          |           | 3     |
| DQEPSUCOMMON | 4          |           | 2     |
| DQEPSUEXDEST | 4D         |           | 2     |
| DQEPSUFLA1   | 55         |           | 2     |
| DQEPSUIA     | 27         |           | 3     |
| DQEPSUIADATE | 27         |           | 4     |
| DQEPSUIATIME | 2D         |           | 4     |
| DQEPSUJOBNA  | 6          |           | 3     |
| DQEPSUOCC    | E          |           | 4     |
| DQEPSUOPKEY  | E          |           | 3     |
| DQEPSUOPR    | 16         |           | 4     |
| DQEPSUTOKEN  | 39         |           | 2     |
| DQEPSUTYP    | 0          |           | 2     |
| DQEPSUUSER   | 31         |           | 2     |
| DQERASK      | 11         | 80        | 3     |
| DQERCNJE     | 10         |           | 2     |
| DQERCOLD     | 11         | 40        | 3     |
| DQERDLTE     | 11         | 20        | 3     |
| DQERDRN      | 2          |           | 2     |
| DQEREC       | 8          |           | 3     |
| DQEREL       | 0          |           | 1     |
| DQERELD      | C          |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| DQEREQTYPE      | 15         |           | 2     |
| DQEREQTYP1      | 8          |           | 2     |
| DQEREQUESTCRC   | 4          |           | 2     |
| DQEREQUESTTYPE  | 0          |           | 2     |
| DQERETCW        | 40         |           | 2     |
| DQERFLG1        | 11         |           | 2     |
| DQERFP          | 0          |           | 1     |
| DQERFPD         | 0          |           | 2     |
| DQERFW          | 0          |           | 1     |
| DQERFWDEST      | 0          |           | 2     |
| DQERFWNNUM      | 10         |           | 2     |
| DQERJBID        | 8          |           | 2     |
| DQERJBNM        | 0          |           | 2     |
| DQERMAX         | 20         |           | 2     |
| DQEROJID        | 28         |           | 2     |
| DQERONJE        | 18         |           | 2     |
| DQERSEQ         | 10         |           | 2     |
| DQERSET         | 11         | 10        | 3     |
| DQERSL          | 0          |           | 1     |
| DQERSLDN        | 0          |           | 2     |
| DQERSLSSN       | 8          |           | 2     |
| DQERSNCW        | 44         |           | 2     |
| DQERSSEQ        | 0          |           | 1     |
| DQERSSNAM       | C          |           | 2     |
| DQERUS          | 0          |           | 2     |
| DQERWSID        | 0          |           | 2     |
| DQESDEST        | 5C         |           | 3     |
| DQESOCKETDOMAIN | 4          |           | 2     |



| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| DQESOCKETIDPTR | 0          |           | 2     |
| DQESPIN        | B          | 01        | 3     |
| DQESP131       | 94         | 80        | 3     |
| DQESSEQ        | 3C         |           | 2     |
| DQESSEQW       | 3C         |           | 2     |
| DQESSNAM       | 38         |           | 2     |
| DQESSNAMW      | 38         |           | 2     |
| DQESTATUS      | 4          |           | 2     |
| DQESTATU1      | 0          |           | 2     |
| DQESTEPNAME    | 3D         |           | 2     |
| DQESUB         | 0          |           | 1     |
| DQESUBTOKEN    | 54         |           | 3     |
| DQESVCNW       | 10         |           | 2     |
| DQETCPIP       | 0          |           | 1     |
| DQETIME        | 8          |           | 3     |
| DQETMDCH       | 6          | 08        | 3     |
| DQETMDEP       | 6          | 04        | 3     |
| DQETOKEN       | 4C         |           | 3     |
| DQETOKEN_FULL  | 48         |           | 2     |
| DQETOKEN_PRE   | 48         |           | 3     |
| DQETSO         | 4          |           | 2     |
| DQETSOW        | 0          |           | 2     |
| DQETYPE        | 8          |           | 2     |
| DQEURGCH1      | A          | 80        | 3     |
| DQEVER         | 4          |           | 2     |
| DQEWLM         | 0          |           | 1     |
| DQEWLMCLASS    | 6          |           | 2     |
| DQEWLMPOL      | 0          |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| DQEWLMPRO1    | A          | 20        | 3     |
| DQEWS         | 0          |           | 2     |
| DQEWSEQ       | 12         |           | 2     |
| DQEWSID       | 18         |           | 2     |
| DQEWSIDW      | 18         |           | 2     |
| DQE23PSUS     | B          | 02        | 3     |
| PSU_ASKSIMGDG | 55         | 01        | 3     |
| PSU_BESTSTEP  | 55         | 02        | 3     |
| PSU_DSLEN     | 58         |           | 2     |
| PSU_EXPJCL    | 55         | 80        | 3     |
| PSU_GDGLN     | 5B         |           | 2     |
| PSU_JCLLEN    | 60         |           | 2     |
| PSU_OPERINFO  | 55         | 20        | 3     |
| PSU_ROOT      | 55         | 04        | 3     |
| PSU_ROOTLEN   | 5E         |           | 2     |
| PSU_SIMGDG    | 55         | 08        | 3     |
| PSU_SLLN      | 56         |           | 2     |
| PSU_SUSPEND   | 55         | 40        | 3     |
| PSU_USERSYS   | 55         | 10        | 3     |

## EMP - event manager parameters

### Example

Name : DCLEMP

Function:

This segment declares an Event Manager Parameter area. This control block is built, initialized, and freed by the Event Manager subtask and by callers of the event handler subroutine.

| Offsets |     |           |     |            |                          |
|---------|-----|-----------|-----|------------|--------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description              |
| 0       | (0) | STRUCTURE | 432 | EMP        | event manager parameters |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | CHARACTER | 4   | EMPDESC    | block descriptor = 'EMP ' |
| 4       | (4)  | CHARACTER | 2   | EMPVER     | block mapping version     |
| 6       | (6)  | BITSTRING | 2   | EMPFLAGS   | event manager flags       |
| 6       | (6)  | BITSTRING | 1   | EMPFLAG1   | event manager flag1       |
|         |      | 1... ..   |     | EMPJNTW    | jnt will be replaced      |
|         |      | .1.. ..   |     | EMPJNTC    | jnt will be reset         |
|         |      | ..1. .... |     | EMPLATE    | no more delay for cur evt |
|         |      | ...1 .... |     | EMPMANR    | a manual request          |
|         |      | .... 1... |     | EMPMCP     | mcp built this block      |
|         |      | .... .1.. |     | EMPDELOP   | corresp oper deleted      |
|         |      | .... ..1. |     | EMPRSTRT   | job has been restarted    |
|         |      | .... ...1 |     | EMPB5SKP   | b5 event skipped          |
| 7       | (7)  | BITSTRING | 1   | EMPFLAG2   | event manager flag2       |
|         |      | 1... ..   |     | EMPJRPFL   | JNR=Y trigger             |
|         |      | .1.. ..   |     | EMP3PREP   | 3P event reprocessed      |
|         |      | ..1. .... |     | EMPSRASC   | sr avail status change    |
|         |      | ...1 .... |     | EMPJRNFL   | JNR=N trigger             |
|         |      | .... 1... |     | EMPUSEV    | user event flag           |
|         |      | .... .1.. |     | EMPSRAVA   | sr avail is yes           |
|         |      | .... ..1. |     | EMPNOLOG   | don't log                 |
|         |      | .... ...1 |     | EMP3P      | 3P event                  |
| 8       | (8)  | BITSTRING | 4   | EMPTMECB   | timer ecb                 |
| 12      | (C)  | ADDRESS   | 4   | EMPMCAP    | mca address               |
| 16      | (10) | ADDRESS   | 4   | EMPDTOP    | 1st delayed exit record   |
| 20      | (14) | ADDRESS   | 4   | EMPJNTP    | jnt buffer address        |
| 24      | (18) | ADDRESS   | 4   | EMPOPRP    | cp oper record address    |
| 28      | (1C) | ADDRESS   | 4   | EMPOCCP    | cp occ record address     |

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 32      | (20) | ADDRESS   | 4   | EMPWRKP    | cp work record address   |
| 36      | (24) | ADDRESS   | 4   | EMPDOAP    | current doa ptr or 0     |
| 40      | (28) | ADDRESS   | 4   | EMPNMMB    | normal mode mgr params   |
| 44      | (2C) | ADDRESS   | 4   | EMPPERF    | ev mgr performance       |
| 48      | (30) | ADDRESS   | 4   | EMPEDATA   | address of ext data      |
| 52      | (34) | CHARACTER | 4   | EMPSTIM    | timer ID                 |
| 56      | (38) | UNSIGNED  | 4   | EMPDUR     | event duration (sec)     |
| 60      | (3C) | CHARACTER | 8   | EMPSTAMP   | event time stamp         |
| 60      | (3C) | SIGNED    | 4   | EMPDAT     | event date (00yydddf)    |
| 64      | (40) | SIGNED    | 4   | EMPTIME    | event time (secs*100)    |
| 68      | (44) | SIGNED    | 4   | EMPBSIZE   | current plan buffer size |
| 72      | (48) | SIGNED    | 4   | EMPESIZE   | ext data size            |
| 76      | (4C) | ADDRESS   | 4   | EMPDQEP    | address of curr DQE      |
| 80      | (50) | ADDRESS   | 4   | EMPEQEP    | address of eqe           |
| 84      | (54) | ADDRESS   | 4   | EMPEXRP    | ptr to exit record       |
| 88      | (58) | CHARACTER | 10  | EMPCLOCK   | event time (yymmddhhmm)  |
| 88      | (58) | CHARACTER | 6   | EMPYMMDD   | event date (yymmdd)      |
| 94      | (5E) | CHARACTER | 4   | EMPHHMM    | event time (hhmm)        |
| 98      | (62) | CHARACTER | 4   | EMPINDEX   | operation index          |
| 98      | (62) | UNSIGNED  | 3   | EMPOCCN    | occurrence number        |
| 101     | (65) | UNSIGNED  | 1   | EMPOPRN    | operation number         |
| 102     | (66) | SIGNED    | 2   | EMPNETID   | current net number       |
| 104     | (68) | CHARACTER | 8   | EMPUSER    | dialog user name         |
| 112     | (70) | CHARACTER | 1   | EMPSIGN    | return code sign         |
| 113     | (71) | BITSTRING | 1   | EMPFLAG3   | event manager flag3      |
|         |      | 1... ..   |     | EMP23PSUS  | A2/A3P susp ETT          |
|         |      | .1... ..  |     | EMPOPCSUB  | submitted by OPC         |

| Offsets |      |            |     |                    |                                         |
|---------|------|------------|-----|--------------------|-----------------------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)         | Description                             |
|         |      | ...1. .... |     | EMPZTWE            | call ztwe from EM                       |
|         |      | ...1 ....  |     | EMPFLUSH0EVE       | flush '0' events                        |
|         |      | .... 1...  |     | EMPTWSNORELEASEOCC | NO release OCC in IWS                   |
|         |      | .... .1..  |     | EMPJ4RECEIVED      | IJ4 processing                          |
|         |      | .... ..1.  |     | EMPDOAURG          | to be used by MCP ON old DOA was URGENT |
|         |      | .... ...1  |     | EMPEMUSR8          | ON emusr RC=8                           |
| 114     | (72) | CHARACTER  | 4   | EMPCODE            | operation error code                    |
| 118     | (76) | CHARACTER  | 1   | EMPSTAT            | new operation status                    |
| 119     | (77) | CHARACTER  | 1   | EMPCOM             | jes command character                   |
| 120     | (78) | CHARACTER  | 8   | EMPJOB             | current job name                        |
| 128     | (80) | CHARACTER  | 8   | EMPJNUM            | current job number                      |
| 136     | (88) | CHARACTER  | 64  | EMPEXIT            | timer exit                              |
| 200     | (C8) | BITSTRING  | 1   | EMPFLAG4           | event manager flag4                     |
|         |      | 1... ....  |     | EMPNOETT           | NO add a new ETT                        |
|         |      | .1.. ....  |     | EMPWTO             |                                         |
|         |      | ..1. ....  |     | EMPLOGGED          |                                         |
|         |      | ...1 ....  |     | EMPSHADOWB         | on=ready bind requested                 |
|         |      | .... 1...  |     | EMPPARALLELOPER    | Paralle Operation                       |
|         |      | .... .1..  |     | EMPZCE2EJOB        |                                         |
|         |      | .... ..1.  |     | *                  |                                         |
|         |      | .... ...1  |     | *                  |                                         |
| 201     | (C9) | BITSTRING  | 1   | EMPFLAG5           | event manager flag5                     |
|         |      | 1... ....  |     | EMPEMUSR           | caller is emusr                         |

STEP AWARENESS flags

| Offsets |     |           |     |             |                 |
|---------|-----|-----------|-----|-------------|-----------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description     |
|         |     | .1.. .... |     | EMPRELONLY  |                 |
|         |     | ..1. .... |     | EMPA10A2LOG | A1 or A2 logged |
|         |     | ...1 .... |     | EMPA3SLOG   | A3S logged      |

| Offsets |       |           |     |             |                           |
|---------|-------|-----------|-----|-------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description               |
|         |       | .... 1111 |     | *           |                           |
| 202     | (CA)  | CHARACTER | 10  | EMPDTTM     | date and time             |
| 202     | (CA)  | CHARACTER | 6   | EMPD        | date yymmdd               |
| 208     | (D0)  | SIGNED    | 4   | EMPTM       | time 100th of sec         |
| 212     | (D4)  | SIGNED    | 4   | EMPCODEFIX  | IWS numeric errc          |
| 216     | (D8)  | ADDRESS   | 4   | EMPCNDP     | addr work cond            |
| 220     | (DC)  | CHARACTER | 2   | *           | free                      |
| 222     | (DE)  | CHARACTER | 8   | EMPETTJOBN  | ETT job name              |
| 230     | (E6)  | CHARACTER | 1   | EMPETTTYP   | ETT type (J or R)         |
| 231     | (E7)  | CHARACTER | 44  | EMPETTCRIT  | ETT criteria              |
| 275     | (113) | CHARACTER | 44  | EMPETTEVNAM | ETT full event name       |
| 319     | (13F) | UNSIGNED  | 1   | EMPETTDGDL  | Length of GDG DS root     |
| 320     | (140) | CHARACTER | 8   | EMPSTRTIME  | Start time for delay      |
| 328     | (148) | ADDRESS   | 4   | EMPMCPTRLP  | ptr to cond trl chain-MCP |
| 332     | (14C) | ADDRESS   | 4   | EMPCNDLP    | ptr to cond id chain      |
| 336     | (150) | ADDRESS   | 4   | EMPCODPTR   | MSG E031I                 |
| 340     | (154) | ADDRESS   | 4   | EMPEMTRLP   | ptr to cond trl chain(EM) |
| 344     | (158) | ADDRESS   | 4   | EMPUSRFP    | addr work usrf            |
| 348     | (15C) | ADDRESS   | 4   | EMPX02P     | addr work xd02            |
| 352     | (160) | ADDRESS   | 4   | EMPOUCP     | ptr to OUC comm area      |

STEP AWARENESS info

| Offsets |       |           |     |            |             |
|---------|-------|-----------|-----|------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description |
| 356     | (164) | CHARACTER | 4   | EMPLOGKEY  |             |
| 356     | (164) | UNSIGNED  | 3   | EMPLOGOCC  |             |
| 359     | (167) | UNSIGNED  | 1   | EMPLOGOPR  |             |
| 360     | (168) | CHARACTER | 1   | EMPLOGTYP  | trltyp29    |

| Offsets |       |           |     |            |             |
|---------|-------|-----------|-----|------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description |
| 361     | (169) | CHARACTER | 71  | *          | free        |
| 432     | (1B0) | CHARACTER |     | EMPEND     | end of emp  |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| EMP         | 0          |           | 1     |
| EMPA10A2LOG | C9         | 20        | 3     |
| EMPA3SLOG   | C9         | 10        | 3     |
| EMPBSIZE    | 44         |           | 2     |
| EMPB5SKP    | 6          | 01        | 4     |
| EMPCLOCK    | 58         |           | 2     |
| EMPCNDLP    | 14C        |           | 2     |
| EMPCNDP     | D8         |           | 2     |
| EMPCODE     | 72         |           | 2     |
| EMPCODEFIX  | D4         |           | 2     |
| EMPCODPTR   | 150        |           | 2     |
| EMPCOM      | 77         |           | 2     |
| EMPDATE     | 3C         |           | 3     |
| EMPDELOP    | 6          | 04        | 4     |
| EMPDESC     | 0          |           | 2     |
| EMPDOAP     | 24         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| EMPDOAURG    | 71         | 02        | 3     |
| EMPDQEP      | 4C         |           | 2     |
| EMPDT        | CA         |           | 3     |
| EMPDTOP      | 10         |           | 2     |
| EMPDTTM      | CA         |           | 2     |
| EMPDUR       | 38         |           | 2     |
| EMPEDATA     | 30         |           | 2     |
| EMPEMTRLP    | 154        |           | 2     |
| EMPEMUSR     | C9         | 80        | 3     |
| EMPEMUSR8    | 71         | 01        | 3     |
| EMPEND       | 1B0        |           | 2     |
| EMPEQEP      | 50         |           | 2     |
| EMPESIZE     | 48         |           | 2     |
| EMPETTCRIT   | E7         |           | 2     |
| EMPETTEVNAM  | 113        |           | 2     |
| EMPETTGDDL   | 13F        |           | 2     |
| EMPETTJOBN   | DE         |           | 2     |
| EMPETTTYP    | E6         |           | 2     |
| EMPEXIT      | 88         |           | 2     |
| EMPEXRP      | 54         |           | 2     |
| EMPFLAGS     | 6          |           | 2     |
| EMPFLAG1     | 6          |           | 3     |
| EMPFLAG2     | 7          |           | 3     |
| EMPFLAG3     | 71         |           | 2     |
| EMPFLAG4     | C8         |           | 2     |
| EMPFLAG5     | C9         |           | 2     |
| EMPFLUSH0EVE | 71         | 10        | 3     |
| EMPHHMM      | 5E         |           | 3     |



| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| EMPINDEX      | 62         |           | 2     |
| EMPJNTC       | 6          | 40        | 4     |
| EMPJNTP       | 14         |           | 2     |
| EMPJNTW       | 6          | 80        | 4     |
| EMPJNUM       | 80         |           | 2     |
| EMPJOB        | 78         |           | 2     |
| EMPJRNFL      | 7          | 10        | 4     |
| EMPJRPFL      | 7          | 80        | 4     |
| EMPJ4RECEIVED | 71         | 04        | 3     |
| EMPLATE       | 6          | 20        | 4     |
| EMPLOGGED     | C8         | 20        | 3     |
| EMPLOGKEY     | 164        |           | 2     |
| EMPLOGOCC     | 164        |           | 3     |
| EMPLOGOPR     | 167        |           | 3     |
| EMPLOGTYP     | 168        |           | 2     |
| EMPMANR       | 6          | 10        | 4     |
| EMPMCAP       | C          |           | 2     |
| EMPMCP        | 6          | 08        | 4     |
| EMPMCPTRLP    | 148        |           | 2     |
| EMPNETID      | 66         |           | 2     |
| EMPNNMB       | 28         |           | 2     |
| EMPNOETT      | C8         | 80        | 3     |
| EMPNOLOG      | 7          | 02        | 4     |
| EMPOCCN       | 62         |           | 3     |
| EMPOCCP       | 1C         |           | 2     |
| EMPOPCSUB     | 71         | 40        | 3     |
| EMPOPRN       | 65         |           | 3     |
| EMPOPRP       | 18         |           | 2     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| EMPOUCP            | 160        |           | 2     |
| EMPPARALLELOPER    | C8         | 08        | 3     |
| EMPPERF            | 2C         |           | 2     |
| EMPRELONLY         | C9         | 40        | 3     |
| EMPRSTRT           | 6          | 02        | 4     |
| EMPSHADOWB         | C8         | 10        | 3     |
| EMPSIGN            | 70         |           | 2     |
| EMPSRASC           | 7          | 20        | 4     |
| EMPSRAVA           | 7          | 04        | 4     |
| EMPSTAMP           | 3C         |           | 2     |
| EMPSTAT            | 76         |           | 2     |
| EMPSTIM            | 34         |           | 2     |
| EMPSTRTIME         | 140        |           | 2     |
| EMPTIME            | 40         |           | 3     |
| EMPTM              | D0         |           | 3     |
| EMPTMECB           | 8          |           | 2     |
| EMPTWSNORELEASEOCC | 71         | 08        | 3     |
| EMPUSER            | 68         |           | 2     |
| EMPUSEV            | 7          | 08        | 4     |
| EMPUSRFP           | 158        |           | 2     |
| EMPVER             | 4          |           | 2     |
| EMPWRKP            | 20         |           | 2     |
| EMPWTO             | C8         | 40        | 3     |
| EMPWD02P           | 15C        |           | 2     |
| EMPYMMDD           | 58         |           | 3     |
| EMPZCE2EJOB        | C8         | 04        | 3     |
| EMPZTWE            | 71         | 20        | 3     |
| EMP23PSUS          | 71         | 80        | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EMP3P    | 7          | 01        | 4     |
| EMP3PREP | 7          | 40        | 4     |

## EPR - Event data set positions

### Example

Name : DCLEPR

Function:

This segment declares the scheduler event data set position record. The third record on the first track of the checkpoint data set is always the EPR for the scheduler host system. The following records are EPR records for remote nodes. The order of the EPR records is the same as the order of the scheduler node names in the NNN record.

| Offsets |      |           |     |             |                                  |
|---------|------|-----------|-----|-------------|----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                      |
| 0       | (0)  | STRUCTURE | 152 | EPR         | THE SCHEDULER EVENT DS POSITIONS |
| 0       | (0)  | CHARACTER | 4   | EPRDESC     | BLOCK DESCRIPTOR = 'EPR '        |
| 4       | (4)  | CHARACTER | 2   | EPRVER      | BLOCK MAPPING VERSION            |
| 6       | (6)  | BITSTRING | 2   | *           | RESERVED                         |
| 8       | (8)  | CHARACTER | 8   | EPRNODE     | NODE NAME (HOST = 0)             |
| 16      | (10) | SIGNED    | 4   | * (2)       | RESERVED (INIT TO ZERO)          |
| 24      | (18) | CHARACTER | 128 | EPRTABLE    | DATA SET POSITION TABLE          |
| 24      | (18) | CHARACTER | 8   | EPRPOS (16) | MAX 16 EVENT DS PER NODE         |
| 24      | (18) | SIGNED    | 4   | EPRWCY#     | WRITE CYCLE NUMBER               |
| 28      | (1C) | SIGNED    | 4   | EPRREC#     | RECORD # OF LAST RECORD          |
| 152     | (98) | CHARACTER |     | EPREND      | END OF EPR                       |

## Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| EPR     | 0          |           | 1     |
| EPRDESC | 0          |           | 2     |
| EPREND  | 98         |           | 2     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EPRNODE  | 8          |           | 2     |
| EPRPOS   | 18         |           | 3     |
| EPRREC#  | 1C         |           | 4     |
| EPRTABLE | 18         |           | 2     |
| EPRVER   | 4          |           | 2     |
| EPRWCY#  | 18         |           | 4     |

## EQE - Event queue element

### Example

Name : DCLEQE

Function:

This segment declares a scheduler event queue element. EQEs are chained to the event manager queue by event readers and by the host task. EQEs are dequeued by the event manager (host) or by ncf (remote). The EQE is included in TRL24 records.

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 120 | EQE        | EVENT QUEUE ENTRY         |
| 0       | (0)  | CHARACTER | 4   | EQEDESC    | BLOCK DESCRIPTOR = 'EQE ' |
| 4       | (4)  | CHARACTER | 2   | EQEVER     | BLOCK MAPPING VERSION     |
| 6       | (6)  | BITSTRING | 2   | *          | RESERVED                  |
| 8       | (8)  | SIGNED    | 4   | EQENODE    | NODE NUMBER               |
| 12      | (C)  | SIGNED    | 4   | EQERDRN    | EVENT READER NUM IN NODE  |
| 16      | (10) | CHARACTER | 8   | EQEPOS     | EVENT DS POSITION         |
| 16      | (10) | SIGNED    | 4   | EQECYC#    | WRITE CYCLE NUMBER        |
| 20      | (14) | SIGNED    | 4   | EQEREC#    | RECORD NUMBER IN CYCLE    |
| 24      | (18) | CHARACTER | 8   | EQERELDD   | SU/RE DDNAME OR ZERO      |
| 32      | (20) | CHARACTER | 80  | EQEXR      | EXIT RECORD, SEE DCLEXR   |
| 112     | (70) | ADDRESS   | 4   | EQECMIP    | ADDRESS OF CAT MGT        |

| Offsets |      |           |     |            |                                     |
|---------|------|-----------|-----|------------|-------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                         |
| 116     | (74) | SIGNED    | 4   | EQECMIL    | LENGTH OF STG POINTED TO BY EQECMIP |
| 120     | (78) | CHARACTER |     | EQEEND     | END OF EQE                          |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EQE      | 0          |           | 1     |
| EQECMIL  | 74         |           | 2     |
| EQECMIP  | 70         |           | 2     |
| EQECYC#  | 10         |           | 3     |
| EQEDESC  | 0          |           | 2     |
| EQEEND   | 78         |           | 2     |
| EQEEXR   | 20         |           | 2     |
| EQENODE  | 8          |           | 2     |
| EQEPOS   | 10         |           | 2     |
| EQERDRN  | C          |           | 2     |
| EQEREC#  | 14         |           | 3     |
| EQERELDD | 18         |           | 2     |
| EQEVER   | 4          |           | 2     |

## ERR - Error statistics control block

### Example

Name : DCLERR

Function:

This segment describes the error statistics control block.

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 72  | ERR        |             |

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 0       | (0)  | ADDRESS   | 4   | ERRFRWD    | ERR CB                     |
| 4       | (4)  | CHARACTER | 4   | ERRCODE    | ERROR CODE TOTAL=HEX'0000' |
| 8       | (8)  | SIGNED    | 4   | ERRDUR     | OCC ERROR DURATION         |
| 12      | (C)  | SIGNED    | 4   | ERRTDUR    | TOTAL ERROR DURATION       |
| 16      | (10) | SIGNED    | 4   | ERRRDUR    | TOTAL RERUN DURATION       |
| 20      | (14) | SIGNED    | 2   | ERR#       | NO OF ERRORS               |
| 22      | (16) | CHARACTER | 1   | ERRST      | BIT SWITCHES               |
|         |      |           |     | ERREX      | ERROR CODE FOR OCC EXIST   |
|         |      |           |     | *          | NOT USED                   |
| 23      | (17) | CHARACTER | 1   | *          | FREE                       |
| 24      | (18) | CHARACTER | 6   | ERRWSID    | WORKSTATION ID             |
| 24      | (18) | CHARACTER | 4   | ERRWSIDN   | WORKSTATION ID             |
| 28      | (1C) | SIGNED    | 2   | ERRWSIDO   | WORKSTATION OP NUMBER      |
| 30      | (1E) | CHARACTER | 24  | ERROPTXT   | OPERATION TEXT             |
| 54      | (36) | CHARACTER | 8   | ERRJBNM    | JOB NAME                   |
| 62      | (3E) | CHARACTER | 10  | *          | RESERVED                   |
| 72      | (48) | CHARACTER |     | *          | END OF ERROR TABLE         |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| ERR      | 0          |           | 1     |
| ERR#     | 14         |           | 2     |
| ERRCODE  | 4          |           | 2     |
| ERRDUR   | 8          |           | 2     |
| ERREX    | 16         | 80        | 2     |
| ERRFRWD  | 0          |           | 2     |
| ERRJBNM  | 36         |           | 2     |
| ERROPTXT | 1E         |           | 2     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| ERRDUR   | 10         |           | 2     |
| ERRST    | 16         |           | 2     |
| ERRTDUR  | C          |           | 2     |
| ERRWSID  | 18         |           | 2     |
| ERRWSIDN | 18         |           | 3     |
| ERRWSIDO | 1C         |           | 3     |

## ERRS - Error statistics report record in DP

### Example

Name : DCLERRS

Function:

Describes layout of error statistics report record. Representing report data on occurrences which had one/more restarted operations before completion. The records have the standard recsize and keysize of DPIN records.

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 0       | (0)  | STRUCTURE | 270 | ERSAREA    | ERS RECORD                 |
| 0       | (0)  | CHARACTER | 114 | ERSKEY     | KEY                        |
| 0       | (0)  | SIGNED    | 2   | ERSTYPE    | TYPE IS ALWAYS 8           |
| 2       | (2)  | CHARACTER | 34  | *          |                            |
| 36      | (24) | CHARACTER | 4   | ERSCODE    | ERROR CODE                 |
| 40      | (28) | CHARACTER | 26  | ERSOCC     | OCCURANCE IDENTIFICATION   |
| 40      | (28) | CHARACTER | 16  | ERSADID    | APPLICATION IDENTIFICATION |
| 40      | (28) | CHARACTER | 1   | ERSSUM     | SUM PER ERROR: 1 AND       |
| 41      | (29) | CHARACTER | 15  | *          | TOTAL SUM : 9              |
| 56      | (38) | CHARACTER | 10  | ERSOPIA    | PLANNED OCC INPUT ARRIVAL  |
| 56      | (38) | CHARACTER | 6   | ERSOPIAD   | DAY (YYMMDD)               |
| 56      | (38) | CHARACTER | 4   | ERSOPIAY   |                            |
| 60      | (3C) | CHARACTER | 2   | ERSOPIAE   | (DD)                       |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 62      | (3E) | CHARACTER | 4   | ERSOPIAT   | TIME (HHMM)               |
| 62      | (3E) | CHARACTER | 2   | ERSOPIAH   | TIME (HH)                 |
| 64      | (40) | CHARACTER | 2   | ERSOPIAM   | TIME (MM)                 |
| 66      | (42) | CHARACTER | 14  | *          | SPARE                     |
| 80      | (50) | CHARACTER | 16  | ERSOWID    | OWNER ID                  |
| 96      | (60) | CHARACTER | 18  | *          | TO FILL UP THE KEY        |
| 114     | (72) | CHARACTER | 81  | ERSDATA    | DATA PART OF ERS RECORD   |
| 114     | (72) | CHARACTER | 24  | ERSOTXT    | APPLICATION TEXT          |
| 138     | (8A) | CHARACTER | 1   | ERSOPRI    | PRIORITY                  |
| 139     | (8B) | CHARACTER | 1   | *          | FREE                      |
| 140     | (8C) | CHARACTER | 6   | ERSWSID    | WSID OF FAILING OPERATION |
| 140     | (8C) | CHARACTER | 4   | ERSWSIDS   | WORKSTATION NAME          |
| 144     | (90) | SIGNED    | 2   | ERSWSIDN   | OPERATION NUMBER          |
| 146     | (92) | CHARACTER | 24  | ERSOPTXT   | OPERATION TEXT            |
| 170     | (AA) | CHARACTER | 8   | ERSJBNM    | JOBNAME                   |
| 178     | (B2) | CHARACTER | 6   | ERSEDUR    | OPER. ERROR DURATION      |
| 178     | (B2) | CHARACTER | 4   | ERSEDURH   | TIME (HHHH)               |
| 182     | (B6) | CHARACTER | 2   | ERSEDURM   | (MM)                      |
| 184     | (B8) | CHARACTER | 6   | ERSRDUR    | OPER. RERUN DURATION      |
| 184     | (B8) | CHARACTER | 4   | ERSRDURH   | TIME (HHHH)               |
| 188     | (BC) | CHARACTER | 2   | ERSRDURM   | (MM)                      |
| 190     | (BE) | CHARACTER | 5   | ERSERRNM   | NUMBER OF ERROR           |
| 195     | (C3) | CHARACTER | 75  | *          | FILLER TO RECSIZE         |

## Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| ERSADID | 28         |           | 4     |
| ERSAREA | 0          |           | 1     |



| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| ERSCODE  | 24         |           | 3     |
| ERSDATA  | 72         |           | 2     |
| ERSEDUR  | B2         |           | 3     |
| ERSEDURH | B2         |           | 4     |
| ERSEDURM | B6         |           | 4     |
| ERSERRNM | BE         |           | 3     |
| ERSJBNM  | AA         |           | 3     |
| ERSKEY   | 0          |           | 2     |
| ERSOCC   | 28         |           | 3     |
| ERSOPIA  | 38         |           | 4     |
| ERSOPIAD | 38         |           | 5     |
| ERSOPIAE | 3C         |           | 6     |
| ERSOPIAH | 3E         |           | 6     |
| ERSOPIAM | 40         |           | 6     |
| ERSOPIAT | 3E         |           | 5     |
| ERSOPIAY | 38         |           | 6     |
| ERSOPRI  | 8A         |           | 3     |
| ERSOPTXT | 92         |           | 3     |
| ERSOTXT  | 72         |           | 3     |
| ERSOWID  | 50         |           | 3     |
| ERSRDUR  | B8         |           | 3     |
| ERSRDURH | B8         |           | 4     |
| ERSRDURM | BC         |           | 4     |
| ERSSUM   | 28         |           | 5     |
| ERSTYPE  | 0          |           | 3     |
| ERSWSID  | 8C         |           | 3     |
| ERSWSIDN | 90         |           | 4     |
| ERSWSIDS | 8C         |           | 4     |

## ESP - Event split record

### Example

Name : DCLESP

Function:

This segment declares a split event record. Event types 2, 3J, and 3P can be sent as a split event.

| Offsets |      |           |     |              |                                                                               |
|---------|------|-----------|-----|--------------|-------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                                                   |
| 0       | (0)  | STRUCTURE | 80  | ESP          | ESP head or continuation                                                      |
| 0       | (0)  | CHARACTER | 1   | ESP_exrtyp   | event type = N                                                                |
| 1       | (1)  | CHARACTER | 1   | ESP_type     | type of ESP F = first head ESP N = continued ESP                              |
| 2       | (2)  | CHARACTER | 1   | ESP_syst     | contained event type blank === above MUST match DCLEXR ==                     |
| 3       | (3)  | CHARACTER | 3   | ESP_dqetype  | actual contained event type                                                   |
| 6       | (6)  | SIGNED    | 2   | ESP_seqF     | ESP F-type sequence number                                                    |
| 8       | (8)  | SIGNED    | 4   | ESP_seqN     | ESP N-type sequence number                                                    |
| 12      | (C)  | SIGNED    | 4   | ESP_seqT     | ESP seq totals                                                                |
| 16      | (10) | ADDRESS   | 4   | ESP_extptr   | address of data buffer NULL                                                   |
| 20      | (14) | SIGNED    | 4   | ESP_datasize | Total size in buffer when ESP on WRTQ, and for F-type. Data size for N-types. |
| 24      | (18) | UNSIGNED  | 1   | ESP_sp       | subpool number for ext buffer                                                 |
| 25      | (19) | CHARACTER | 1   | ESP_flags    | a flag byte                                                                   |
|         |      | 1... ..   |     | ESP_app      | APP extension buffer                                                          |
|         |      | .111 1111 |     | *            | reserved                                                                      |
| 26      | (1A) | CHARACTER | 50  | ESP_data     | actual event data                                                             |
| 76      | (4C) | CHARACTER | 4   | ESP_id       | event identification (offs 76)                                                |
| 80      | (50) | CHARACTER |     | ESP_xdata0   | eXtended data portion plachold                                                |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| ESP          | 0          |           | 1     |
| ESP_app      | 19         | 80        | 3     |
| ESP_data     | 1A         |           | 2     |
| ESP_datasize | 14         |           | 2     |
| ESP_dqetype  | 3          |           | 2     |
| ESP_exrtyp   | 0          |           | 2     |
| ESP_extptr   | 10         |           | 2     |
| ESP_flags    | 19         |           | 2     |
| ESP_id       | 4C         |           | 2     |
| ESP_seqF     | 6          |           | 2     |
| ESP_seqN     | 8          |           | 2     |
| ESP_seqT     | C          |           | 2     |
| ESP_sp       | 18         |           | 2     |
| ESP_syst     | 2          |           | 2     |
| ESP_type     | 1          |           | 2     |
| ESP_xdata0   | 50         |           | 2     |

## ETC - ETT criteria record

## Example

Name : DCLETC

Function:

This segment declares the Event-triggered-tracking criteria record physically located in the side-information file (EQQSIDS).

| Offsets |     |           |     |            |                           |
|---------|-----|-----------|-----|------------|---------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description               |
| 0       | (0) | STRUCTURE | 128 | ETC        | ETT TRACKING CRITERIA REC |
| 0       | (0) | CHARACTER | 64  | ETCKEY     | KEY                       |

| Offsets |      |           |     |            |                                                  |
|---------|------|-----------|-----|------------|--------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                      |
| 0       | (0)  | CHARACTER | 1   | ETCTYPE    | RECORD TYPE = EVENT TYPE 2 -> JOB, 3 -> RESOURCE |
| 1       | (1)  | CHARACTER | 44  | ETCNAME    | NAME OF TRIGGERING EVENT                         |
| 45      | (2D) | CHARACTER | 19  | *          | RESERVED                                         |
| 64      | (40) | CHARACTER | 64  | ETCDATA    | DATA                                             |
| 64      | (40) | CHARACTER | 4   | ETCDESC    | RECORD DESCRIPTOR = 'ETC '                       |
| 68      | (44) | CHARACTER | 2   | ETCVERS    | RECORD VERSION                                   |
| 70      | (46) | CHARACTER | 1   | *          | RESERVED                                         |
| 71      | (47) | CHARACTER | 16  | ETCAPPL    | CORRESPONDING APPLICATION                        |
| 87      | (57) | CHARACTER | 1   | ETCJREP    | JOB REPLACE: Y=YES, N=NO                         |
| 88      | (58) | CHARACTER | 8   | ETCLUSER   | USER THAT LAST UPDATED                           |
| 96      | (60) | CHARACTER | 6   | ETCLDATE   | DATE OF LAST UPDATE                              |
| 102     | (66) | CHARACTER | 4   | ETCLTIME   | TIME OF LAST UPDATE                              |
| 106     | (6A) | CHARACTER | 8   | ETCGROUP   | AUTHORITY GROUP                                  |
| 114     | (72) | CHARACTER | 1   | ETCDEPR    | DEP RESOLUTION: Y=YES,N=NO                       |
| 115     | (73) | CHARACTER | 1   | ETCASSW    | AVAIL STATUS: Y=YES,N=NO                         |
| 116     | (74) | CHARACTER | 4   | ETCSPARE   | RESERVED                                         |
| 120     | (78) | CHARACTER | 8   | ETCLUTS    | LAST UPDATE TIMESTAMP                            |
| 128     | (80) | CHARACTER |     | ETCEND     | END OF ETC                                       |

## Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| ETC     | 0          |           | 1     |
| ETCAPPL | 47         |           | 3     |
| ETCASSW | 73         |           | 3     |
| ETCDATA | 40         |           | 2     |
| ETCDEPR | 72         |           | 3     |
| ETCDESC | 40         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| ETCEND   | 80         |           | 2     |
| ETCGROUP | 6A         |           | 3     |
| ETCJREP  | 57         |           | 3     |
| ETCKEY   | 0          |           | 2     |
| ETCLDATE | 60         |           | 3     |
| ETCLTIME | 66         |           | 3     |
| ETCLUSER | 58         |           | 3     |
| ETCLUTS  | 78         |           | 3     |
| ETCNAME  | 1          |           | 3     |
| ETCSPARE | 74         |           | 3     |
| ETCTYPE  | 0          |           | 3     |
| ETCVERS  | 44         |           | 3     |

## EVE - IBM Workload Scheduler events

### Example

Name : DCLEVE  
Function:

This segment declares the IBM Workload Scheduler events record.

This layout maps the records of the EQQTWSOU, EQQTWSIN and EQQOUCV files.

In the EQQTWSOU, EQQTWSIN and EQQOUCV data sets, the first record is only and always the header event. It is mapped with the EVEHEADER structure. In the EVEHEADER structure, the EVESPECIALOFFSET and EVEJOBSUBMISSION fields are present only in the EQQTWSOU file.

From the second to the last record, the EVERECORD structure is used; it maps the first 24 bytes. From the 25th byte onwards, the record is mapped using the DCLEX0 layout.



**Note:** If a Symphony renew batch job fails and message EQQ3096E is displayed, check in the TWSOU file that the value stored in the EVENEXTTOWREAD field is greater than the value stored in the EVENEXTTOWRITE field. If not, the error is due to a timing problem between the controller and server tasks. Wait for a while before running the Symphony renew batch job again. These files do not overwrite unprocessed records when they become full.

| Offsets |     |           |     |              |                                |
|---------|-----|-----------|-----|--------------|--------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                    |
| 0       | (0) | STRUCTURE | 8   | EVEGENERIC   | GENERIC DS RECORD              |
| 0       | (0) | CHARACTER | 8   | EVERECORDKEY | RECORD KEY                     |
| 0       | (0) | CHARACTER | 4   | EVERECTYPE   | RECORD TYPE                    |
| 4       | (4) | SIGNED    | 4   | EVERECNUM    | PHYSICAL RECORD NUMBER (0=HDR) |
| 8       | (8) | CHARACTER |     | EVERECDEP    | RECORD DEPENDENT DATA          |

| Offsets |      |           |     |                |                               |
|---------|------|-----------|-----|----------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                   |
| 0       | (0)  | STRUCTURE | 32  | EVEHEADER      | HEADER RECORD                 |
| 0       | (0)  | SIGNED    | 4   | *(2)           | RECORD KEY                    |
| 8       | (8)  | SIGNED    | 4   | EVEWRTCYCNUM   | LAST WRITE CYCLE NUMBER       |
| 12      | (C)  | SIGNED    | 4   | EVEREADCYCNUM  | LAST READ CYCLE NUMBER        |
| 16      | (10) | SIGNED    | 4   | EVEMAXNUM      | MAX RECORD NUMBER EXCL HEADER |
| 20      | (14) | SIGNED    | 4   | EVETRCAP       | TRACK CAPACITY IN RECORDS     |
| 24      | (18) | SIGNED    | 4   | EVENEXTTOWRITE | NEXT RECORD TO WRITE          |

| Offsets |      |           |     |                           |                         |
|---------|------|-----------|-----|---------------------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)                | Description             |
| 28      | (1C) | SIGNED    | 4   | EVENEXTTTOREAD            | NEXT RECORD TO READ     |
| 32      | (20) | SIGNED    | 4   | EVEPECIALOFFSET           | SPECIAL EVENT OFFSET    |
| 36      | (24) | CHARACTER | 1   | EVEJOBSUBMISSION          | JOB SUBMISSION (A/D)    |
| 37      | (25) | CHARACTER | 1   | EVEDSNAMETYPE             | DATASET NAME ID (I/O)   |
| 38      | (26) | CHARACTER | 1   | EVEREFRESHOUCDEST         | REFRESH OUC DESTS (Y/N) |
| 39      | (27) | CHARACTER | 1   | *                         | FREE                    |
| 40      | (28) | SIGNED    | 4   | EVEEMSYNCPNEXTT<br>TOREAD | SYNC RECORD             |
| 44      | (2C) | SIGNED    | 4   | EVEEMSYNCPREADC<br>YCNUM  | SYNC CYCLE NUMBER       |

| Offsets |      |           |     |                         |                                               |
|---------|------|-----------|-----|-------------------------|-----------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)              | Description                                   |
| 0       | (0)  | STRUCTURE | *   | EVERECOND               | EVENT RECORD                                  |
| 0       | (0)  | CHARACTER | 24  | EVERECOND<br>COMMONPART | EVENT RECORD COMMON<br>PART                   |
| 0       | (0)  | SIGNED    | 4   | *(2)                    | RECORD KEY                                    |
| 8       | (8)  | SIGNED    | 4   | EVERECWRTCYCNUM         | RECORD WRITE CYCLE<br>NUMBER                  |
| 12      | (C)  | UNSIGNED  | 2   | EVESEQNUMBER            | SEQUENCE NUMBER WITHIN<br>JOBLOG: 0=NO JOBLOG |
| 14      | (E)  | UNSIGNED  | 2   | EVELOGSIZE              | SIZE OF JOBLOG                                |
| 16      | (10) | CHARACTER | 8   | EVESTMP TOD             | TIME OF DAY IN MILLISECS                      |
| 24      | (18) | CHARACTER | *   | EVERECOND DATA          | RECORD DEPENDENT DATA                         |

## Cross reference

| Name                  | Hex Offset | Hex Value | Level |
|-----------------------|------------|-----------|-------|
| EVEEMSYNCPNEXTTTOREAD | 28         |           | 2     |
| EVEEMSYNCPREADCYCNUM  | 2C         |           | 2     |
| EVEGENERIC            | 0          |           | 1     |

| Name                | Hex Offset | Hex Value | Level |
|---------------------|------------|-----------|-------|
| EVEHEADER           | 0          |           | 1     |
| EVEJOBSUBMISSION    | 24         |           | 2     |
| EVELOGSIZE          | E          |           | 3     |
| EVEMAXNUM           | 10         |           | 2     |
| EVENEXTTOREAD       | 1C         |           | 2     |
| EVENEXTTOWRITE      | 18         |           | 2     |
| EVEREADCYCNUM       | C          |           | 2     |
| EVERECDEP           | 8          |           | 3     |
| EVERECNUM           | 4          |           | 3     |
| EVERECORD           | 0          |           | 1     |
| EVERECORDCOMMONPART | 0          |           | 2     |
| EVERECORDDATA       | 18         |           | 2     |
| EVERECORDKEY        | 0          |           | 2     |
| EVERECTYPE          | 0          |           | 3     |
| EVERECWRTCYCNUM     | 8          |           | 3     |
| EVESEQNUMBER        | C          |           | 3     |
| EVESPECIALOFFSET    | 20         |           | 2     |
| EVESTMPTOD          | 10         |           | 3     |
| EVETRCAP            | 14         |           | 2     |
| EVEWRTCYCNUM        | 8          |           | 2     |

## EVT - Event and SUBREL data set record

### Example

Name : DCLEVT

Function:

This segment declares the layout of the event data set and submit release data set.



| Offsets |      |           |     |             |                                                      |
|---------|------|-----------|-----|-------------|------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                          |
| 0       | (0)  | STRUCTURE | 820 | EVT         | EVENT RECORD                                         |
| 0       | (0)  | CHARACTER | 20  | EVTKEY      | EVENT RECORD KEY                                     |
| 0       | (0)  | SIGNED    | 4   | EVTREC#     | PHYSICAL RECORD NO (0=HDR)                           |
| 4       | (4)  | SIGNED    | 4   | *           | USED ONLY IN EV DS 2 HDR                             |
| 4       | (4)  | SIGNED    | 2   | EVT2REC#    | EV DS 2 READ RECORD NUMBER                           |
| 6       | (6)  | SIGNED    | 2   | EVT2CYC#    | EV DS 2 READ CYCLE NUMBER                            |
| 8       | (8)  | SIGNED    | 4   | EVTCYC#     | WRITE CYCLE NO 0 1 ... = 0 FOR HEADER                |
| 12      | (C)  | SIGNED    | 4   | EVTMAX#     | MAX #RCDS EXCL HDR = 0 FOR NON-HEADER                |
| 16      | (10) | SIGNED    | 4   | EVTTRCAP    | TRACK CAPACITY IN RCDS = 0 FOR NON-HEADER            |
| 20      | (14) | CHARACTER | 80  | EVTEXR (10) | EXIT RECORD (SEE DCLEXR)                             |
| 20      | (14) | CHARACTER | 80  | EVTSUR      | SUBMIT RECORD (SEE DCLSUR)                           |
| 20      | (14) | CHARACTER | 80  | EVTREL      | RELEASE RECORD(SEE DCLREL) BLANK FOR HEADER & CYCLE0 |

### Event data set header record

| Offsets |     |           |     |              |                        |
|---------|-----|-----------|-----|--------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description            |
| 0       | (0) | STRUCTURE | *   | *            | EVDS HEADER RECORD KEY |
| 0       | (0) | CHARACTER | *   | EVTCKPT      | CKPT RECORD (REC 0)    |
| 0       | (0) | BITSTRING | 1   | EVTFLAGS     | RESERVED               |
| 1       | (1) | UNSIGNED  | 1   | EVTRSSEQ#    | REQUEST #              |
| 2       | (2) | CHARACTER | 6   | EVTCKPTE (*) | CHECKPOINT ENTRY       |
| 2       | (2) | CHARACTER | 4   | EVTWSNM      | WORKSTATION NAME       |
| 6       | (6) | UNSIGNED  | 2   | EVTSSSEQ#    | CURRENT SUBMIT SEQ#    |

## Submit/release header record

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 20  | *          | SU/RE HEADER RECORD KEY   |
| 0       | (0)  | CHARACTER | 20  | EVTSRH     | SU/RE HEADER RECORD KEY   |
| 0       | (0)  | SIGNED    | 4   | *          | RECORD NUMBER = 0         |
| 4       | (4)  | SIGNED    | 4   | EVTLRCYC   | LATEST READ CYCLE NUMBER  |
| 8       | (8)  | SIGNED    | 4   | EVTLRREC   | LATEST READ RECORD NUMBER |
| 12      | (C)  | SIGNED    | 4   | *          | MAX #RCDS EXCL HDR        |
| 16      | (10) | SIGNED    | 4   | *          | TRACK CAPACITY IN RCDS    |

## Submit/release record

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 4   | *          | SUB/REL HEADER REC EXT |
| 0       | (0) | BITSTRING | 4   | EVTSRFLG   | EXTENSION TO HEADER    |
|         |     | 1... .... |     | EVTID      | OK TO SEND ID EVENT    |
| 0       | (0) | BITSTRING | 3   | *          | RESERVED               |

| Offsets |     |           |     |            |                                              |
|---------|-----|-----------|-----|------------|----------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                  |
| 0       | (0) | STRUCTURE | 20  | *          | SU/RE RECORD KEY                             |
| 0       | (0) | CHARACTER | 20  | EVTSR      | SU/RE RECORD KEY                             |
| 0       | (0) | SIGNED    | 4   | *          | RECORD NUMBER                                |
| 4       | (4) | UNSIGNED  | 2   | EVTSEQ#B   | SEQ. NO WITHIN JCLBATCH 0 FOR RELEASE RECORD |
| 6       | (6) | UNSIGNED  | 2   | EVTSIZEB   | SIZE OF JCL BATCH 0 FOR RELEASE RECORD       |
| 8       | (8) | SIGNED    | 4   | *          | WRITE CYCLE NUMBER                           |
| 12      | (C) | CHARACTER | 3   | EVTDAQETYP | DQE DATA TYPE                                |

| Offsets |      |           |     |            |                                         |
|---------|------|-----------|-----|------------|-----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                             |
| 15      | (F)  | CHARACTER | 5   | EVTSTMP    | EVENT TIME STAMP                        |
| 15      | (F)  | UNSIGNED  | 1   | EVTSTMPY   | YEAR 0-99                               |
| 16      | (10) | UNSIGNED  | 1   | EVTSTMPM   | MONTH 1-12                              |
| 17      | (11) | UNSIGNED  | 1   | EVTSTMPD   | DAY 1-31                                |
| 18      | (12) | SIGNED    | 2   | EVTSTMPT   | TIME IN MINUTES IN HH * 60 + MM<br>FORM |

### Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| EVT       | 0          |           | 1     |
| EVTCKPT   | 0          |           | 2     |
| EVTCKPTE  | 2          |           | 3     |
| EVTCYC#   | 8          |           | 3     |
| EVTDQETYP | C          |           | 3     |
| EVTEXR    | 14         |           | 2     |
| EVTFLAGS  | 0          |           | 3     |
| EVTID     | 0          | 80        | 3     |
| EVTKEY    | 0          |           | 2     |
| EVTLRCYC  | 4          |           | 3     |
| EVTLRREC  | 8          |           | 3     |
| EVTMAX#   | C          |           | 3     |
| EVTREC#   | 0          |           | 3     |
| EVTREL    | 14         |           | 4     |
| EVTRSSEQ# | 1          |           | 3     |
| EVTSEQ#B  | 4          |           | 3     |
| EVTSIZEB  | 6          |           | 3     |
| EVTSR     | 0          |           | 2     |
| EVTSRFLG  | 0          |           | 2     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EVTSRH   | 0          |           | 2     |
| EVSSEQ#  | 6          |           | 4     |
| EVTSTMP  | F          |           | 3     |
| EVTSTMPD | 11         |           | 4     |
| EVTSTMPM | 10         |           | 4     |
| EVTSTMPT | 12         |           | 4     |
| EVTSTMPY | F          |           | 4     |
| EVTSUR   | 14         |           | 3     |
| EVTTRCAP | 10         |           | 3     |
| EVTWSNM  | 2          |           | 4     |
| EVT2CYC# | 6          |           | 4     |
| EVT2REC# | 4          |           | 4     |

## EX0 - Topology In event data

Name: DCLEX0

| Offsets |      |           |     |               |                                                                                            |
|---------|------|-----------|-----|---------------|--------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                                |
| 0       | (0)  | STRUCTURE | 80  | ex0           | Topology In event data the length of this field must be minor or equal to Exr block length |
| 0       | (0)  | CHARACTER | 1   | ex0Syst       | '0' type event MAESTRO                                                                     |
| 1       | (1)  | CHARACTER | 1   | ex0Type       | Type indicator                                                                             |
| 2       | (2)  | CHARACTER | 22  | *             | Reserved                                                                                   |
| 24      | (18) | CHARACTER | 52  | ex0InputEvent | INPUT Event in EVE CB                                                                      |
| 76      | (4C) | CHARACTER | 4   | ex0Opcid      | Event id 'EQQ0'                                                                            |

### Input Event Definition

The LENGTH of this block must be minor or equal to  
everlen minus eveRecordCommonPart

Moreover must be equal to LENGTH of ex0InputEvent now 52  
then the structure must be the following

| Offsets |     |           |     |            |                                                                                   |
|---------|-----|-----------|-----|------------|-----------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                       |
| 0       | (0) | STRUCTURE | 52  | ex0Event   |                                                                                   |
| 0       | (0) | SIGNED    | 4   | ex0Cdat    | creation date (00yydddf)                                                          |
| 4       | (4) | SIGNED    | 4   | ex0Ctim    | creation time (sec*100)                                                           |
| 8       | (8) | SIGNED    | 2   | ex0Gmtof   | gmt offset (minutes)                                                              |
| 10      | (A) | CHARACTER | 1   | ex0flags   | BRDA                                                                              |
|         |     | 1... ..   |     | ex0suspd   | suspended event BRDA (mirror to exrsuspd) BRDA                                    |
|         |     | .111 1111 |     | *          | BRDA                                                                              |
| 11      | (B) | CHARACTER | 1   | *          | reserved BRDC                                                                     |
| 12      | (C) | CHARACTER | 40  | ex0BODY    | This is Input event body To map this field see the following Event Dependent data |

#### Output Event Definition

The LENGTH of this block must be minor or equal to  
everlen minus eveRecordCommonPart now 1202496  
then the structure must be the following

dcl

\$BOGa

The LENGTH of this block must be minor or equal to \$BOGa  
everlen minus eveRecordCommonPart now 16024136 \$BOGa00  
then the structure must be the following \$BOGa

\$BOGa

| Offsets |     |           |     |              |                              |
|---------|-----|-----------|-----|--------------|------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                  |
| 0       | (0) | STRUCTURE | 136 | ex0Tws       | tplgy Out event data BOGa0   |
| 0       | (0) | CHARACTER | 136 | ex0TwsEvent  | OUTPUT event in EVE CB BOGa0 |
| 0       | (0) | CHARACTER | 4   | ex0TwsCommon | Common Part BOGa0            |
| 0       | (0) | CHARACTER | 1   | ex0TwsSyst   | '0' type event MAESTRO BOGa0 |
| 1       | (1) | CHARACTER | 1   | ex0TwsType   | indicator BOGa0              |

| Offsets |     |           |     |              |                                                                                           |
|---------|-----|-----------|-----|--------------|-------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                                                                               |
| 2       | (2) | CHARACTER | 1   | ex0TwsExType | Extended type indicator BOGa0                                                             |
| 3       | (3) | CHARACTER | 1   | *            | free BOGa                                                                                 |
| 4       | (4) | CHARACTER | 132 | ex0TwsBody   | BOGa0 Topology Output event body To map this field see the following Event Dependent data |

### Event Dependent Data

Workstation Event mapping for ex0Body and ex0TwsBody

| Offsets |      |           |     |               |                                                            |
|---------|------|-----------|-----|---------------|------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                |
| 0       | (0)  | STRUCTURE | 28  | ex0WS         | workstation event body                                     |
| 0       | (0)  | CHARACTER | 4   | ex0WSID       | WS name                                                    |
| 4       | (4)  | CHARACTER | 1   | ex0WSlnk      | WS link status L linked U unlinked                         |
| 5       | (5)  | CHARACTER | 1   | ex0WSsta      | WS status BSQC A active O offline                          |
| 6       | (6)  | CHARACTER | 1   | ex0WSflk      | WS full link CHRCBSQA                                      |
| 7       | (7)  | CHARACTER | 1   | ex0WSstyp     | node type CHRA                                             |
| 8       | (8)  | CHARACTER | 16  | ex0WSdomain   | domain name CHRA F fully linked BSQA U unfully linked BSQA |
| 24      | (18) | CHARACTER | 1   | ex0WSflags    |                                                            |
|         |      | 1... ..   |     | ex0WSChgLimit | Change WS Limit                                            |
|         |      | .111 1111 |     | *             |                                                            |
| 25      | (19) | CHARACTER | 1   | *             | avoid compiler msg                                         |
| 26      | (1A) | UNSIGNED  | 2   | ex0WSLimit    | New WS limit                                               |

Workstation Event switch dommgr mapping for ex0Body ex0TwsBody

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 20  | ex0WSMGR   | workstation event body |
| 0       | (0) | CHARACTER | 4   | ex0WSN     | WS name                |
| 4       | (4) | CHARACTER | 16  | ex0WSDOM   | WS Domain manager      |

## Operation Event mapping for ex0Body only

| Offsets |      |           |     |                |                                                                                 |
|---------|------|-----------|-----|----------------|---------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                                                     |
| 0       | (0)  | STRUCTURE | 40  | ex0JOB         | tracker event record                                                            |
| 0       | (0)  | CHARACTER | 8   | ex0JOBocctk    | OCC token                                                                       |
| 8       | (8)  | SIGNED    | 2   | ex0JOBnum      | OPR number                                                                      |
| 10      | (A)  | CHARACTER | 4   | ex0JOBws       | WS name                                                                         |
| 14      | (E)  | CHARACTER | 1   | ex0JOBsta      | OPR status E Error S Started C Complited D Deleted U Undecided T Terminated     |
| 15      | (F)  | CHARACTER | 1   | ex0JOBflags    |                                                                                 |
|         |      | 1111 111. |     | *              | reserved not used for compatibil. with 8.1.0 events                             |
|         |      | .... ...1 |     | ex0JOBisRecJob | event is for recovery job                                                       |
| 16      | (10) | CHARACTER | 24  | ex0JOBbuff     | JOB event buffer To map this field see the ex0JOBmaps and ex0JOBmapt structures |

| Offsets |     |           |     |             |                                         |
|---------|-----|-----------|-----|-------------|-----------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                             |
| 0       | (0) | STRUCTURE | 24  | ex0JOBmaps  | JOB event buffer map for status STARTED |
| 0       | (0) | CHARACTER | 4   | *           | for align with old event                |
| 4       | (4) | CHARACTER | 8   | ex0Jobld    | job number string format                |
| 12      | (C) | SIGNED    | 4   | ex0JobldNum | job number numeric                      |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 16      | (10) | CHARACTER | 8   | *          | free        |

| Offsets |     |           |     |                |                                               |
|---------|-----|-----------|-----|----------------|-----------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description                                   |
| 0       | (0) | STRUCTURE | 25  | ex0JOBmapt     | JOB event buffer map for status TERMPROMPT25a |
| 0       | (0) | SIGNED    | 4   | ex0JOBerrc     | error code                                    |
| 4       | (4) | CHARACTER | 4   | ex0JobRecWs    | recov job WS                                  |
| 8       | (8) | UNSIGNED  | 2   | ex0JobMsgNo    | recov prmpt num 25aGDMc                       |
| 10      | (A) | SIGNED    | 2   | ex0JobMsgLen   | recov prmpt len                               |
| 12      | (C) | CHARACTER | 1   | ex0JobRecType  | recovery type S - Stop C - Continue R - Rerun |
| 13      | (D) | CHARACTER | 1   | ex0JobPrmptAns | prompt answer YN                              |
| 14      | (E) | BITSTRING | 1   | ex0JobRecCond  | recovery conditions                           |
|         |     | 1... .... |     | ex0JobRecovery | has been recovered                            |
|         |     | .1.. .... |     | ex0JobRecJob   | has recovery job                              |
|         |     | ..1. .... |     | ex0JobRecMsg   | wait on message                               |
|         |     | ...1 .... |     | ex0JobFail     | on if status=E Fail                           |
|         |     | .... 1111 |     | *              | free                                          |
| 15      | (F) | CHARACTER | 10  | *              | free                                          |

#### Change Operation Event mapping for ex0TwsBody Only

| Offsets |     |           |     |                |                      |
|---------|-----|-----------|-----|----------------|----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description          |
| 0       | (0) | STRUCTURE | 110 | ex0TwsJOB      | tracker event record |
| 0       | (0) | CHARACTER | 8   | ex0TJBOccToken | Occurrence Token     |



| Offsets |      |           |     |                    |                          |
|---------|------|-----------|-----|--------------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description              |
| 8       | (8)  | SIGNED    | 2   | ex0TJBOpNumber     | Operation Number         |
| 10      | (A)  | CHARACTER | 16  | ex0TJBAdName       | Application Name         |
| 26      | (1A) | CHARACTER | 6   | ex0TJBWS           | WS Information           |
| 26      | (1A) | CHARACTER | 4   | ex0TJBWsName       | WS name                  |
| 30      | (1E) | CHARACTER | 1   | ex0TJBWsType       | WS Type                  |
| 31      | (1F) | CHARACTER | 1   | *                  | free                     |
| 32      | (20) | BITSTRING | 2   | ex0TJBCommands     | Commands Flags           |
|         |      | 1... ..   |     | ex0TJBExecute      | Execute Job              |
| 34      | (22) | BITSTRING | 2   | ex0TJBActionsFlags | Actions Flags            |
|         |      | 1... ..   |     | ex0TJBChgStatus    | Status Changed           |
|         |      | .1... ..  |     | ex0TJBChgIA        | Input Arrival Changed    |
|         |      | ..1. .... |     | ex0TJBChgUntilTm   | Until Time Changed CANC  |
|         |      | ...1 .... |     | ex0TJBChgHoldRel   | HoldRelease Changed      |
|         |      | .... 1... |     | ex0TJBChgTimeDep   | Time Dependency Changed  |
|         |      | .... .1.. |     | ex0TJBChgSuppLate  | Suppr if Late Changed    |
|         |      | .... ..1. |     | ex0TJBChgPriority  | Priority Changed         |
|         |      | .... ...1 |     | ex0TJBChgDeadline  | Deadline Changed         |
| 35      | (23) | 1... ..   |     | ex0TJBChgAutoSub   | Auto submit changed BSUA |
|         |      | .1... ..  |     | ex0TJBChgNop       | Nop changed BSUA         |
| 36      | (24) | CHARACTER | 42  | ex0TJBActions      | Actions                  |
| 36      | (24) | CHARACTER | 2   | ex0TJBStatus       | Operation Status         |
| 36      | (24) | CHARACTER | 1   | ex0TJBOldStatus    | new status               |
| 37      | (25) | CHARACTER | 1   | ex0TJBNewStatus    | old status               |
| 38      | (26) | CHARACTER | 10  | ex0TJBIA           | Input Arrival            |
| 38      | (26) | CHARACTER | 6   | ex0TJBIADate       |                          |
| 44      | (2C) | CHARACTER | 4   | ex0TJBIATime       |                          |
| 48      | (30) | CHARACTER | 12  | ex0TJBUntilTm      | Until Time CANC          |
| 48      | (30) | CHARACTER | 6   | ex0TJBUntDate      | CANC                     |
| 54      | (36) | CHARACTER | 2   | *                  |                          |

| Offsets |      |           |     |                  |                           |
|---------|------|-----------|-----|------------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description               |
| 56      | (38) | SIGNED    | 4   | ex0TJBUnTime     | CANC                      |
| 60      | (3C) | CHARACTER | 2   | *                |                           |
|         |      | 1... ..   |     | ex0TJBHoldRel    | Oldrelease Job            |
|         |      | .1.. ..   |     | ex0TJBTimeDep    | Time Dependency           |
|         |      | ..1. .... |     | ex0TJBSuppLate   | Suppr if Late             |
|         |      | ...1 .... |     | ex0TJBInFormat   | IWS jobname format BOGa   |
|         |      | .... 1... |     | ex0TJBASub       | Auto submit BSUA          |
|         |      | .... .1.. |     | ex0TJBNo         | NoppedUn-Nopped BSUA      |
|         |      | .... ..1. |     | ex0TJBScript     | Centralized BSUA          |
| 62      | (3E) | SIGNED    | 2   | ex0TJBPriority   | Operation Priority        |
| 64      | (40) | SIGNED    | 2   | ex0TJBOpNumberEx | Operation Number Ext      |
| 66      | (42) | CHARACTER | 2   | ex0TJBExtStatus  | Extended status for FT23a |
| 66      | (42) | BITSTRING | 1   | ex0TJBOldStFlg   | Old flags                 |
|         |      | 1... ..   |     | ex0TJBOfStart    |                           |
|         |      | .1.. ..   |     | ex0TJBOfSending  |                           |
|         |      | ..1. .... |     | ex0TJBOfSuber    |                           |
|         |      | ...1 .... |     | ex0TJBOfErfail   |                           |
|         |      | .... 1... |     | ex0TJBOfRecPrmp  |                           |
|         |      | .... .1.. |     | ex0TJBOfRecJob   |                           |
|         |      | .... ..1. |     | ex0TJBOfRecRun   |                           |
|         |      | .... ...1 |     | *                |                           |
| 67      | (43) | BITSTRING | 1   | ex0TJBNewStFlg   | New flags                 |
|         |      | 1... ..   |     | ex0TJBNFStart    |                           |
|         |      | .1.. ..   |     | ex0TJBNFSending  |                           |
|         |      | ..1. .... |     | ex0TJBNFSuber    |                           |
|         |      | ...1 .... |     | ex0TJBNFErfail   |                           |
|         |      | .... 1... |     | ex0TJBNFRecPrmp  |                           |
|         |      | .... .1.. |     | ex0TJBNFRecJob   |                           |
|         |      | .... ..1. |     | ex0TJBNFRecRun   |                           |

| Offsets |      |           |     |                 |                          |
|---------|------|-----------|-----|-----------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description              |
|         |      | .... ...1 |     | *               |                          |
| 68      | (44) | CHARACTER | 6   | ex0TJBDeadlDate | job Deadline Date        |
| 74      | (4A) | CHARACTER | 4   | ex0TJBDeadlTime | job Deadline Time2AaBOGc |
| 78      | (4E) | CHARACTER | 32  | ex0TJBJobInfo   | Job Info BOGa            |

## Add Operation Event mapping for ex0TwsBody Only

| Offsets |      |           |     |                  |                      |
|---------|------|-----------|-----|------------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description          |
| 0       | (0)  | STRUCTURE | 112 | ex0TwsJOBAdd     | Add Job event record |
| 0       | (0)  | CHARACTER | 8   | ex0TJAOccToken   | Occurrence Token     |
| 8       | (8)  | SIGNED    | 2   | ex0TJAOpNumber   | Operation Number     |
| 10      | (A)  | SIGNED    | 2   | ex0TJAOpNumberEx | Operation Number Ext |
| 12      | (C)  | CHARACTER | 16  | ex0TJAAdName     | Application Name     |
| 28      | (1C) | CHARACTER | 5   | ex0TJAWS         | WS Information       |
| 28      | (1C) | CHARACTER | 4   | ex0TJAWsName     | WS name              |
| 32      | (20) | CHARACTER | 1   | ex0TJAWsType     | WS Type              |
| 33      | (21) | CHARACTER | 1   | ex0TJAStatus     | Operation Status     |
| 34      | (22) | CHARACTER | 10  | ex0TJAIA         | Input Arrival        |
| 34      | (22) | CHARACTER | 6   | ex0TJAIDate      |                      |
| 40      | (28) | CHARACTER | 4   | ex0TJAIATime     |                      |
| 44      | (2C) | CHARACTER | 12  | ex0TJAUntilTm    | Until Time CANC      |
| 44      | (2C) | CHARACTER | 6   | ex0TJAUntDate    | CANC                 |
| 50      | (32) | CHARACTER | 2   | *                |                      |
| 52      | (34) | SIGNED    | 4   | ex0TJAUntTime    | CANC                 |
| 56      | (38) | CHARACTER | 2   | *                |                      |
|         |      | 1... .... |     | ex0TJAHoldRel    | Oldrelease Job       |

| Offsets |      |           |     |                 |                          |
|---------|------|-----------|-----|-----------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description              |
|         |      | .1.. .... |     | ex0TJATimeDep   | Time Dependency          |
|         |      | ..1. .... |     | ex0TJASupLate   | Suppr if Late            |
|         |      | ...1 .... |     | ex0TJACScript   | Centralized Script       |
|         |      | .... 1... |     | ex0TJAJnFormat  | IWS jobname format BOGa  |
|         |      | .... .1.. |     | ex0TJAAutoSub   | auto submit option BSUA  |
| 58      | (3A) | SIGNED    | 2   | ex0TJAPriority  | Operation Priority       |
| 60      | (3C) | CHARACTER | 6   | ex0TJADeadlDate | Job Deadline Date        |
| 66      | (42) | CHARACTER | 4   | ex0TJADeadlTime | Job Deadline Time        |
| 70      | (46) | CHARACTER | 6   | ex0TJAOccDLDate | Occ Deadline Date        |
| 76      | (4C) | CHARACTER | 4   | ex0TJAOccDLTime | Occ Deadline Time2AaBOGc |
| 80      | (50) | CHARACTER | 32  | ex0TJAJobInfo   | Job Info BOGa Job Name   |

Release Dependency Event mapping for ex0TwsBody only

| Offsets |      |           |     |                  |                        |
|---------|------|-----------|-----|------------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description            |
| 0       | (0)  | STRUCTURE | 68  | ex0JRD           | release dep event 33a  |
| 0       | (0)  | CHARACTER | 1   | ex0JRDFlags      | flags 33a              |
|         |      | 1... .... |     | ex0JRDJnFormat   | IWS jobname format 33a |
| 1       | (1)  | CHARACTER | 3   | *                | free 33a               |
| 4       | (4)  | CHARACTER | 16  | ex0JRDOccName    | Occurrence Name 33a    |
| 20      | (14) | CHARACTER | 8   | ex0JRDOccToken   | Occurrence Token 33a   |
| 28      | (1C) | SIGNED    | 2   | ex0JRDOpNumber   | Operation Number 33a   |
| 30      | (1E) | SIGNED    | 2   | ex0JRDOpNumberEx | Oper Number Extd 33a   |
| 32      | (20) | CHARACTER | 32  | ex0JRDJobInfo    | Job Info 33a           |
| 64      | (40) | CHARACTER | 4   | ex0JRDOpWs       | Job Cpu 33a            |

## Change Occurrence Event mapping for ex0TwsBody Only

| Offsets |      |           |     |                          |                       |
|---------|------|-----------|-----|--------------------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)               | Description           |
| 0       | (0)  | STRUCTURE | 44  | ex00ccChg                | Chg Occ event record  |
| 0       | (0)  | CHARACTER | 8   | ex00ccChgToken           | Occurrence Token      |
| 8       | (8)  | BITSTRING | 2   | ex00ccChgChgActionsFlags | Actions Flags         |
|         |      | 1... ..   |     | ex00ccChgChgHoldRel      | HoldRelease Changed   |
|         |      | .1... ..  |     | ex00ccChgChgDeadline     | Dealine Changed       |
|         |      | ..1. .... |     | ex00ccChgChgStatus       | Change Status BZYa    |
| 10      | (A)  | CHARACTER | 13  | ex00ccChgChgActions      |                       |
| 10      | (A)  | CHARACTER | 1   | *                        |                       |
|         |      | 1... ..   |     | ex00ccChgHoldRel         | Oldrelease Occurrence |
| 11      | (B)  | CHARACTER | 6   | ex00ccChgDeadLDate       | Deadline date         |
| 17      | (11) | CHARACTER | 4   | ex00ccChgDeadLTime       | Deadline time         |
| 21      | (15) | CHARACTER | 2   | ex00ccChgStatus          | Change Status BZYa    |
| 21      | (15) | CHARACTER | 1   | ex00ccChgOldStatus       | Old Status BZYa       |
| 22      | (16) | CHARACTER | 1   | ex00ccChgNewStatus       | New Status 35cBZYa    |
| 23      | (17) | CHARACTER | 1   | *                        | free                  |
| 24      | (18) | CHARACTER | 16  | ex00ccChgName            | Occurrence Name       |
| 40      | (28) | SIGNED    | 2   | ex00ccChgIADate          | Input Arrival Date    |
| 42      | (2A) | SIGNED    | 2   | ex00ccChgIATime          | Input Arrival Time    |

## Add Occurrence Event mapping for ex0TwsBody Only

| Offsets |      |           |     |                    |                       |
|---------|------|-----------|-----|--------------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description           |
| 0       | (0)  | STRUCTURE | 45  | ex00ccAdd          | Add Occ event record  |
| 0       | (0)  | CHARACTER | 8   | ex00ccAddToken     | Occurrence Token      |
| 8       | (8)  | CHARACTER | 16  | ex00ccAddId        | Occurrence Identifier |
| 24      | (18) | CHARACTER | 6   | ex00ccAddIaD       | Occurrence IA Date    |
| 30      | (1E) | CHARACTER | 4   | ex00ccAddIaT       | Occurrence IA Time    |
| 34      | (22) | CHARACTER | 1   | *                  |                       |
|         |      | 1... ..   |     | ex00ccAddHoldRel   | Oldrelease Occurrence |
| 35      | (23) | CHARACTER | 6   | ex00ccAddDeadLDate | Deadline date         |
| 41      | (29) | CHARACTER | 4   | ex00ccAddDeadLTime | Deadline time         |

Define a user for a JOB mapping for ex0TwsBody Only

| Offsets |     |           |     |              |                   |
|---------|-----|-----------|-----|--------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description       |
| 0       | (0) | STRUCTURE | 47  | ex0JUusr     | User event record |
| 0       | (0) | CHARACTER | 47  | ex0JUusrName | user name         |

Job Definition event mapping for ex0TwsBody Only

| Offsets |     |           |     |                  |                |
|---------|-----|-----------|-----|------------------|----------------|
| Dec     | Hex | Type      | Len | Name (Dim)       | Description    |
| 0       | (0) | STRUCTURE | 2   | ex0JDef          | Job Definition |
| 0       | (0) | BITSTRING | 2   | ex0JDefFlags     |                |
|         |     | 1... ..   |     | ex0JDefIsCommand | Is a Command   |
|         |     | .1... ..  |     | ex0JDefInteract  | Is Interactive |
|         |     | ..1. .... |     | ex0JDefContinue  | Recov Continue |

| Offsets |     |           |     |              |                     |
|---------|-----|-----------|-----|--------------|---------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description         |
|         |     | ...1 .... |     | ex0JDefRerun | Recov Rerun         |
| 0       | (0) | BITSTRING | 1   | *            | free                |
| 2       | (2) | CHARACTER |     | ex0JDefBody  | Job Definition Body |

#### Prompt Definition event mapping for ex0TwsBody Only

| Offsets |     |           |     |              |                     |
|---------|-----|-----------|-----|--------------|---------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description         |
| 0       | (0) | STRUCTURE | 2   | ex0PDef      | Job Definition      |
| 0       | (0) | BITSTRING | 2   | ex0PDefFlags |                     |
| 0       | (0) | BITSTRING | 2   | *            | free                |
| 2       | (2) | CHARACTER |     | ex0PDefBody  | Job Definition Body |

#### Dependency Event mapping for ex0TwsBody Only

| Offsets |      |           |     |                    |                                                 |
|---------|------|-----------|-----|--------------------|-------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description                                     |
| 0       | (0)  | STRUCTURE | 132 | ex0Dep             | tracker event record                            |
| 0       | (0)  | CHARACTER | 1   | ex0DepAction       | Dependency Action                               |
| 1       | (1)  | CHARACTER | 2   | *                  | free                                            |
| 3       | (3)  | CHARACTER | 1   | ex0DepFlags        | Actions Flags                                   |
|         |      | 1... .... |     | ex0DepPendingPred  | Pending predecessor                             |
|         |      | .1.. .... |     | ex0DepJnFormat     | IWS jobname format BOGa                         |
|         |      | ..1. .... |     | ex0DepJnFormatPred | IWS jobname format BOGa of the predecessor BOGa |
| 4       | (4)  | CHARACTER | 16  | ex0DepOccName      | Occurrence Name                                 |
| 20      | (14) | CHARACTER | 8   | ex0DepOccToken     | Occurrence Token                                |

| Offsets |      |           |     |                      |                         |
|---------|------|-----------|-----|----------------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)           | Description             |
| 28      | (1C) | SIGNED    | 2   | ex0DeplADate         | Input Arrival Date      |
| 30      | (1E) | SIGNED    | 2   | ex0DeplATime         | Input Arrival Time      |
| 32      | (20) | SIGNED    | 2   | ex0DepOpNumber       | Operation Number        |
| 34      | (22) | SIGNED    | 2   | ex0DepOpNumberEx     | Operation Number Ext    |
| 36      | (24) | CHARACTER | 16  | ex0DepOccNamePred    | Pred Occurrence Name    |
| 52      | (34) | CHARACTER | 8   | ex0DepOccTokenPred   | Pred Occurrence Token   |
| 60      | (3C) | SIGNED    | 2   | ex0DeplADatePred     | Input Arriv. Date Pred  |
| 62      | (3E) | SIGNED    | 2   | ex0DeplATimePred     | Input Arriv. Time Pred  |
| 64      | (40) | SIGNED    | 2   | ex0DepOpNumberPred   | Pred Operation Number   |
| 66      | (42) | SIGNED    | 2   | ex0DepOpNumberExPred | Oper Number Ext 03aBOGc |
| 68      | (44) | CHARACTER | 32  | ex0DepJobInfo        | Job Info BOGa           |
| 100     | (64) | CHARACTER | 32  | ex0DepJobInfoPred    | Pred Job Info BOGa      |

Special Resources Event mapping for ex0TwsBody only

| Offsets |      |           |     |                 |                          |
|---------|------|-----------|-----|-----------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description              |
| 0       | (0)  | STRUCTURE | 72  | ex0SR           | tracker event record     |
| 0       | (0)  | CHARACTER | 1   | ex0SRAction     | spec res action          |
| 1       | (1)  | CHARACTER | 1   | ex0SRflags      | flags BOGa               |
|         |      | 1... ..   |     | ex0SRJnFormat   | IWS jobname format BOGa  |
| 2       | (2)  | CHARACTER | 2   | *               | free 0CaBOGc             |
| 4       | (4)  | CHARACTER | 16  | ex0SR0ccName    | Occurrence Name          |
| 20      | (14) | CHARACTER | 8   | ex0SR0ccToken   | Occurrence Token         |
| 28      | (1C) | SIGNED    | 2   | ex0SR0pNumber   | Operation Number         |
| 30      | (1E) | SIGNED    | 2   | ex0SR0pNumberEx | Oper Number Extd 0CaBOGc |
| 32      | (20) | CHARACTER | 32  | ex0SRJobInfo    | Job Info BOGa            |



| Offsets |      |           |     |             |                    |
|---------|------|-----------|-----|-------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description        |
| 64      | (40) | CHARACTER | 4   | ex0SR0pWs   | Job Cpu 35aBZYa    |
| 68      | (44) | SIGNED    | 2   | ex0SRIADate | Input Arrival Date |
| 70      | (46) | SIGNED    | 2   | ex0SRIATime | Input Arrival Time |

## Job Log Event mapping for ex0Body and ex0TwsBody

| Offsets |      |           |     |                  |                          |
|---------|------|-----------|-----|------------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description              |
| 0       | (0)  | STRUCTURE | 88  | ex0Log           | tracker event record     |
| 0       | (0)  | CHARACTER | 8   | ex0LogOccToken   | Occurrence Token         |
| 8       | (8)  | SIGNED    | 2   | ex0LogOpNumber   | Operation Number         |
| 10      | (A)  | SIGNED    | 2   | ex0LogOpNumberEx | Operation Number Ext     |
| 12      | (C)  | CHARACTER | 16  | ex0LogOccName    | Occurrence Name          |
| 28      | (1C) | CHARACTER | 8   | ex0LogUser       | userid to be notified    |
| 36      | (24) | CHARACTER | 1   | ex0LogAction     | Retrieve result RCE      |
| 37      | (25) | BITSTRING | 1   | *                |                          |
|         |      | 1... .... |     | ex0LogRecJob     | Recovery job log         |
|         |      | .1.. .... |     | ex0LogJnFormat   | IWS jobname format BOGa  |
|         |      | ..11 1111 |     | *                | free 27c25aBOGc          |
| 38      | (26) | CHARACTER | 2   | *                | free                     |
| 40      | (28) | CHARACTER | 4   | ex0LogWsName     | workstation name         |
| 44      | (2C) | SIGNED    | 2   | ex0LogStartTime  | job start time           |
| 46      | (2E) | SIGNED    | 2   | ex0LogStartDate  | job start date           |
| 48      | (30) | SIGNED    | 4   | ex0LogJobId      | jobnumber numeric27aBOGc |
| 52      | (34) | CHARACTER | 32  | ex0LogJobInfo    | Job Info 35cBOGa         |
| 84      | (54) | SIGNED    | 2   | ex0LogIADate     | Input Arrival Date       |
| 86      | (56) | SIGNED    | 2   | ex0LogIATime     | Input Arrival Time       |

JCL Event mapping for ex0Body and ex0TwsBody

| Offsets |      |           |     |                  |                         |
|---------|------|-----------|-----|------------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description             |
| 0       | (0)  | STRUCTURE | 92  | ex0Jcl           | tracker event record 0  |
| 0       | (0)  | CHARACTER | 8   | ex0JclOccToken   | Occurrence Token        |
| 8       | (8)  | UNSIGNED  | 1   | ex0JclOpNumber   | Operation Number        |
| 9       | (9)  | UNSIGNED  | 1   | ex0JclOpNumberEx | Operation Number Ext    |
| 10      | (A)  | CHARACTER | 1   | ex0JclAction     | Retrieve result RCE     |
| 11      | (B)  | CHARACTER | 1   | ex0JCLflags      | for alignment           |
|         |      | 1... ..   |     | ex0JCLJnFormat   | IWS jobname format BOGa |
| 12      | (C)  | CHARACTER | 16  | ex0JclOccName    | Occurrence Name         |
| 28      | (1C) | CHARACTER | 8   | ex0JclUser       | user                    |
| 36      | (24) | CHARACTER | 4   | ex0JclWsName     | WS Name                 |
| 40      | (28) | SIGNED    | 4   | ex0JclLine       | JCL lines number        |
| 44      | (2C) | SIGNED    | 4   | ex0JclSize       | JCL size                |
| 48      | (30) | CHARACTER | 8   | ex0JclFileName   | JCL file name 22aBOGc   |
| 56      | (38) | CHARACTER | 32  | ex0JclJobInfo    | Job Info 35cBOGa        |
| 88      | (58) | SIGNED    | 2   | ex0JclIADate     | Input Arrival Date      |
| 90      | (5A) | SIGNED    | 2   | ex0JclIATime     | Input Arrival Time      |

Prompt Event mapping for ex0twsBody only

| Offsets |     |           |     |              |                          |
|---------|-----|-----------|-----|--------------|--------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description              |
| 0       | (0) | STRUCTURE | 5   | ex0PRM       | prompt event record 25a0 |
| 0       | (0) | UNSIGNED  | 4   | ex0PRMMsgNum | Prmpt message number     |

| Offsets |     |           |     |              |             |
|---------|-----|-----------|-----|--------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description |
| 4       | (4) | CHARACTER | 1   | ex0PRMstatus | reply YN    |

## Synchronization Event mapping for ex0Body and ex0TwsBody

| Offsets |     |           |     |              |                       |
|---------|-----|-----------|-----|--------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description           |
| 0       | (0) | STRUCTURE | 8   | ex0SYN       | Synchronization event |
| 0       | (0) | CHARACTER | 3   | *            |                       |
| 3       | (3) | CHARACTER | 1   | ex0SyncType  | Synchronization Type  |
| 4       | (4) | SIGNED    | 4   | ex0SymRunNum | Symphony run number   |

## Set Time Event mapping for ex0TwsBody only

| Offsets |     |           |     |            |                  |
|---------|-----|-----------|-----|------------|------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description      |
| 0       | (0) | STRUCTURE | 8   | ex0T0      | Set time event 0 |
| 0       | (0) | CHARACTER | 4   | ex0T0Sid   | System Id        |
| 4       | (4) | SIGNED    | 4   | ex0T0gmtof | GMT offset       |

## ActivateDeactivate job submission mapping for ex0twsBody only

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 1   | ex0JSub    | 2Ba0        |

| Offsets |     |           |     |               |                    |
|---------|-----|-----------|-----|---------------|--------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description        |
| 0       | (0) | CHARACTER | 1   | ex0JSubAction | ActivateDeactivate |

#### Kill jobrecovery job Event mapping for ex0TwsBody Only

| Offsets |      |           |     |                   |                       |
|---------|------|-----------|-----|-------------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description           |
| 0       | (0)  | STRUCTURE | 80  | ex0Kill           | tracker event record  |
| 0       | (0)  | CHARACTER | 8   | ex0KillOccToken   | Occurrence Token      |
| 8       | (8)  | CHARACTER | 16  | ex0KillAdName     | Application Name      |
| 24      | (18) | CHARACTER | 10  | ex0KillIA         | Input Arrival         |
| 24      | (18) | CHARACTER | 6   | ex0KillAdate      |                       |
| 30      | (1E) | CHARACTER | 4   | ex0KillAtime      |                       |
| 34      | (22) | CHARACTER | 1   | ex0KillFlags      | Flags                 |
|         |      | 1... ..   |     | ex0KillRecjob     | kill for recovery job |
|         |      | .1.. ..   |     | ex0KillJnFormat   | IWS jobname format    |
|         |      | ..1. .... |     | ex0KillCScript    | Centralized           |
| 35      | (23) | CHARACTER | 1   | *                 | Free                  |
| 36      | (24) | CHARACTER | 4   | ex0KillWS         | WS name               |
| 40      | (28) | SIGNED    | 4   | ex0KillJobid      | jobid                 |
| 44      | (2C) | SIGNED    | 2   | ex0KillOpNumber   | Operation Number      |
| 46      | (2E) | SIGNED    | 2   | ex0KillOpNumberEx | Oper Number Extd      |
| 48      | (30) | CHARACTER | 32  | ex0KillJobInfo    | Job Info              |

#### Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| ex0     | 0          |           | 1     |
| ex0BODY | C          |           | 2     |

| Name                 | Hex Offset | Hex Value | Level |
|----------------------|------------|-----------|-------|
| ex0Cdat              | 0          |           | 2     |
| ex0Ctim              | 4          |           | 2     |
| ex0Dep               | 0          |           | 1     |
| ex0DepAction         | 0          |           | 2     |
| ex0DepFlags          | 3          |           | 2     |
| ex0DepIADate         | 1C         |           | 2     |
| ex0DepIADatePred     | 3C         |           | 2     |
| ex0DepIATime         | 1E         |           | 2     |
| ex0DepIATimePred     | 3E         |           | 2     |
| ex0DepJnFormat       | 3          | 40        | 3     |
| ex0DepJnFormatPred   | 3          | 20        | 3     |
| ex0DepJobInfo        | 44         |           | 2     |
| ex0DepJobInfoPred    | 64         |           | 2     |
| ex0DepOccName        | 4          |           | 2     |
| ex0DepOccNamePred    | 24         |           | 2     |
| ex0DepOccToken       | 14         |           | 2     |
| ex0DepOccTokenPred   | 34         |           | 2     |
| ex0DepOpNumber       | 20         |           | 2     |
| ex0DepOpNumberEx     | 22         |           | 2     |
| ex0DepOpNumberExPred | 42         |           | 2     |
| ex0DepOpNumberPred   | 40         |           | 2     |
| ex0DepPendingPred    | 3          | 80        | 3     |
| ex0Event             | 0          |           | 1     |
| ex0flags             | A          |           | 2     |
| ex0Gmtof             | 8          |           | 2     |
| ex0InputEvent        | 18         |           | 2     |
| ex0Jcl               | 0          |           | 1     |
| ex0JclAction         | A          |           | 2     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| ex0JclFileName   | 30         |           | 2     |
| ex0JCLflags      | B          |           | 2     |
| ex0JclIADate     | 58         |           | 2     |
| ex0JclIATime     | 5A         |           | 2     |
| ex0JCLJnFormat   | B          | 80        | 3     |
| ex0JclJobInfo    | 38         |           | 2     |
| ex0JclLine       | 28         |           | 2     |
| ex0JclOccName    | C          |           | 2     |
| ex0JclOccToken   | 0          |           | 2     |
| ex0JclOpNumber   | 8          |           | 2     |
| ex0JclOpNumberEx | 9          |           | 2     |
| ex0JclSize       | 2C         |           | 2     |
| ex0JclUser       | 1C         |           | 2     |
| ex0JclWsName     | 24         |           | 2     |
| ex0JDef          | 0          |           | 1     |
| ex0JDefBody      | 2          |           | 2     |
| ex0JDefContinue  | 0          | 20        | 3     |
| ex0JDefFlags     | 0          |           | 2     |
| ex0JDefInteract  | 0          | 40        | 3     |
| ex0JDefIsCommand | 0          | 80        | 3     |
| ex0JDefRerun     | 0          | 10        | 3     |
| ex0JOB           | 0          |           | 1     |
| ex0JOBbuff       | 10         |           | 2     |
| ex0JOBerrc       | 0          |           | 2     |
| ex0JobFail       | E          | 10        | 3     |
| ex0JOBflags      | F          |           | 2     |
| ex0JobId         | 4          |           | 2     |
| ex0JobIdNum      | C          |           | 2     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| ex0JOBisRecJob   | F          | 01        | 3     |
| ex0JOBmaps       | 0          |           | 1     |
| ex0JOBmapt       | 0          |           | 1     |
| ex0JobMsgLen     | A          |           | 2     |
| ex0JobMsgNo      | 8          |           | 2     |
| ex0JOBnum        | 8          |           | 2     |
| ex0JOBocctk      | 0          |           | 2     |
| ex0JobPrmptAns   | D          |           | 2     |
| ex0JobRecCond    | E          |           | 2     |
| ex0JobRecJob     | E          | 40        | 3     |
| ex0JobRecMsg     | E          | 20        | 3     |
| ex0JobRecovery   | E          | 80        | 3     |
| ex0JobRecType    | C          |           | 2     |
| ex0JobRecWs      | 4          |           | 2     |
| ex0JOBsta        | E          |           | 2     |
| ex0JOBws         | A          |           | 2     |
| ex0JRD           | 0          |           | 1     |
| ex0JRDFlags      | 0          |           | 2     |
| ex0JRDJnFormat   | 0          | 80        | 3     |
| ex0JRDIJobInfo   | 20         |           | 2     |
| ex0JRDOccName    | 4          |           | 2     |
| ex0JRDOccToken   | 14         |           | 2     |
| ex0JRDOpNumber   | 1C         |           | 2     |
| ex0JRDOpNumberEx | 1E         |           | 2     |
| ex0JRDOpWs       | 40         |           | 2     |
| ex0JSub          | 0          |           | 1     |
| ex0JSubAction    | 0          |           | 2     |
| ex0JUusr         | 0          |           | 1     |

| Name              | Hex Offset | Hex Value | Level |
|-------------------|------------|-----------|-------|
| ex0JUsrName       | 0          |           | 2     |
| ex0Kill           | 0          |           | 1     |
| ex0KillAdName     | 8          |           | 2     |
| ex0KillICScript   | 22         | 20        | 3     |
| ex0KillFlags      | 22         |           | 2     |
| ex0KillIA         | 18         |           | 2     |
| ex0KillIAdate     | 18         |           | 3     |
| ex0KillIAtime     | 1E         |           | 3     |
| ex0KillJnFormat   | 22         | 40        | 3     |
| ex0KillJobid      | 28         |           | 2     |
| ex0KillJobInfo    | 30         |           | 2     |
| ex0KillOccToken   | 0          |           | 2     |
| ex0KillOpNumber   | 2C         |           | 2     |
| ex0KillOpNumberEx | 2E         |           | 2     |
| ex0KillRecjob     | 22         | 80        | 3     |
| ex0KillWS         | 24         |           | 2     |
| ex0Log            | 0          |           | 1     |
| ex0LogAction      | 24         |           | 2     |
| ex0LogIADate      | 54         |           | 2     |
| ex0LogIATime      | 56         |           | 2     |
| ex0LogJnFormat    | 25         | 40        | 3     |
| ex0LogJobId       | 30         |           | 2     |
| ex0LogJobInfo     | 34         |           | 2     |
| ex0LogOccName     | C          |           | 2     |
| ex0LogOccToken    | 0          |           | 2     |
| ex0LogOpNumber    | 8          |           | 2     |
| ex0LogOpNumberEx  | A          |           | 2     |
| ex0LogRecJob      | 25         | 80        | 3     |



| Name                     | Hex Offset | Hex Value | Level |
|--------------------------|------------|-----------|-------|
| ex0LogStartDate          | 2E         |           | 2     |
| ex0LogStartTime          | 2C         |           | 2     |
| ex0LogUser               | 1C         |           | 2     |
| ex0LogWsName             | 28         |           | 2     |
| ex0OccAdd                | 0          |           | 1     |
| ex0OccAddDeadLDate       | 23         |           | 2     |
| ex0OccAddDeadLTime       | 29         |           | 2     |
| ex0OccAddHoldRel         | 22         | 80        | 3     |
| ex0OccAddIaD             | 18         |           | 2     |
| ex0OccAddIaT             | 1E         |           | 2     |
| ex0OccAddId              | 8          |           | 2     |
| ex0OccAddToken           | 0          |           | 2     |
| ex0OccChg                | 0          |           | 1     |
| ex0OccChgChgActions      | A          |           | 2     |
| ex0OccChgChgActionsFlags | 8          |           | 2     |
| ex0OccChgChgDeadline     | 8          | 40        | 3     |
| ex0OccChgChgHoldRel      | 8          | 80        | 3     |
| ex0OccChgChgStatus       | 8          | 20        | 3     |
| ex0OccChgDeadLDate       | B          |           | 3     |
| ex0OccChgDeadLTime       | 11         |           | 3     |
| ex0OccChgHoldRel         | A          | 80        | 4     |
| ex0OccChgIaDate          | 28         |           | 2     |
| ex0OccChgIaTime          | 2A         |           | 2     |
| ex0OccChgName            | 18         |           | 2     |
| ex0OccChgNewStatus       | 16         |           | 4     |
| ex0OccChgOldStatus       | 15         |           | 4     |
| ex0OccChgStatus          | 15         |           | 3     |
| ex0OccChgToken           | 0          |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| ex0Opcid        | 4C         |           | 2     |
| ex0PDef         | 0          |           | 1     |
| ex0PDefBody     | 2          |           | 2     |
| ex0PDefFlags    | 0          |           | 2     |
| ex0PRM          | 0          |           | 1     |
| ex0PRMMsgNum    | 0          |           | 2     |
| ex0PRMstatus    | 4          |           | 2     |
| ex0SR           | 0          |           | 1     |
| ex0SRAction     | 0          |           | 2     |
| ex0SRflags      | 1          |           | 2     |
| ex0SRIADate     | 44         |           | 2     |
| ex0SRIATime     | 46         |           | 2     |
| ex0SRJnFormat   | 1          | 80        | 3     |
| ex0SRJobInfo    | 20         |           | 2     |
| ex0SROccName    | 4          |           | 2     |
| ex0SROccToken   | 14         |           | 2     |
| ex0SROpNumber   | 1C         |           | 2     |
| ex0SROpNumberEx | 1E         |           | 2     |
| ex0SROpWs       | 40         |           | 2     |
| ex0suspd        | A          | 80        | 3     |
| ex0SymRunNum    | 4          |           | 2     |
| ex0SYN          | 0          |           | 1     |
| ex0SyncType     | 3          |           | 2     |
| ex0Syst         | 0          |           | 2     |
| ex0TJAAdName    | C          |           | 2     |
| ex0TJAAutoSub   | 38         | 04        | 3     |
| ex0TJACScript   | 38         | 10        | 3     |
| ex0TJADeadlDate | 3C         |           | 2     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| ex0TJADeadlTime    | 42         |           | 2     |
| ex0TJAHoldRel      | 38         | 80        | 3     |
| ex0TJAIA           | 22         |           | 2     |
| ex0TJAIDate        | 22         |           | 3     |
| ex0TJAIDTime       | 28         |           | 3     |
| ex0TJAInFormat     | 38         | 08        | 3     |
| ex0TJAJobInfo      | 50         |           | 2     |
| ex0TJAOccDLDate    | 46         |           | 2     |
| ex0TJAOccDLTime    | 4C         |           | 2     |
| ex0TJAOccToken     | 0          |           | 2     |
| ex0TJAOpNumber     | 8          |           | 2     |
| ex0TJAOpNumberEx   | A          |           | 2     |
| ex0TJAPriority     | 3A         |           | 2     |
| ex0TJAStatus       | 21         |           | 2     |
| ex0TJASuppLate     | 38         | 20        | 3     |
| ex0TJATimeDep      | 38         | 40        | 3     |
| ex0TJAUntDate      | 2C         |           | 3     |
| ex0TJAUntilTm      | 2C         |           | 2     |
| ex0TJAUntTime      | 34         |           | 3     |
| ex0TJAWS           | 1C         |           | 2     |
| ex0TJAWsName       | 1C         |           | 3     |
| ex0TJAWsType       | 20         |           | 3     |
| ex0TJBActions      | 24         |           | 2     |
| ex0TJBActionsFlags | 22         |           | 2     |
| ex0TJBAdName       | A          |           | 2     |
| ex0TJBAutoSub      | 3C         | 08        | 4     |
| ex0TJBChgAutoSub   | 23         | 80        | 3     |
| ex0TJBChgDeadline  | 22         | 01        | 3     |

| Name              | Hex Offset | Hex Value | Level |
|-------------------|------------|-----------|-------|
| ex0TJBChgHoldRel  | 22         | 10        | 3     |
| ex0TJBChgIA       | 22         | 40        | 3     |
| ex0TJBChgNop      | 23         | 40        | 3     |
| ex0TJBChgPriority | 22         | 02        | 3     |
| ex0TJBChgStatus   | 22         | 80        | 3     |
| ex0TJBChgSuppLate | 22         | 04        | 3     |
| ex0TJBChgTimeDep  | 22         | 08        | 3     |
| ex0TJBChgUntilTm  | 22         | 20        | 3     |
| ex0TJBCommands    | 20         |           | 2     |
| ex0TJBScript      | 3C         | 02        | 4     |
| ex0TJBDeadlDate   | 44         |           | 3     |
| ex0TJBDeadlTime   | 4A         |           | 3     |
| ex0TJBExecute     | 20         | 80        | 3     |
| ex0TJBExtStatus   | 42         |           | 3     |
| ex0TJBHoldRel     | 3C         | 80        | 4     |
| ex0TJBIA          | 26         |           | 3     |
| ex0TJBIADate      | 26         |           | 4     |
| ex0TJBIATime      | 2C         |           | 4     |
| ex0TJBInFormat    | 3C         | 10        | 4     |
| ex0TJBJobInfo     | 4E         |           | 2     |
| ex0TJBNewStatus   | 25         |           | 4     |
| ex0TJBNewStFlg    | 43         |           | 4     |
| ex0TJBNFErrorfail | 43         | 10        | 5     |
| ex0TJBNFRecJob    | 43         | 04        | 5     |
| ex0TJBNFRecPrmp   | 43         | 08        | 5     |
| ex0TJBNFRecRun    | 43         | 02        | 5     |
| ex0TJBNFSending   | 43         | 40        | 5     |
| ex0TJBNFStart     | 43         | 80        | 5     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| ex0TJBNFSuber    | 43         | 20        | 5     |
| ex0TJBNOp        | 3C         | 04        | 4     |
| ex0TJBOccToken   | 0          |           | 2     |
| ex0TJBOfErfail   | 42         | 10        | 5     |
| ex0TJBOfRecJob   | 42         | 04        | 5     |
| ex0TJBOfRecPrmp  | 42         | 08        | 5     |
| ex0TJBOfRecRun   | 42         | 02        | 5     |
| ex0TJBOfSending  | 42         | 40        | 5     |
| ex0TJBOfStart    | 42         | 80        | 5     |
| ex0TJBOfSuber    | 42         | 20        | 5     |
| ex0TJBOldStatus  | 24         |           | 4     |
| ex0TJBOldStFlg   | 42         |           | 4     |
| ex0TJBOpNumber   | 8          |           | 2     |
| ex0TJBOpNumberEx | 40         |           | 3     |
| ex0TJBPriority   | 3E         |           | 3     |
| ex0TJBStatus     | 24         |           | 3     |
| ex0TJBSuppLate   | 3C         | 20        | 4     |
| ex0TJBTimeDep    | 3C         | 40        | 4     |
| ex0TJBUntDate    | 30         |           | 4     |
| ex0TJBUntilTm    | 30         |           | 3     |
| ex0TJBUntTime    | 38         |           | 4     |
| ex0TJBWS         | 1A         |           | 2     |
| ex0TJBWsName     | 1A         |           | 3     |
| ex0TJBWsType     | 1E         |           | 3     |
| ex0Tws           | 0          |           | 1     |
| ex0TwsBody       | 4          |           | 3     |
| ex0TwsCommon     | 0          |           | 3     |
| ex0TwsEvent      | 0          |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| ex0TwsExType  | 2          |           | 4     |
| ex0TwsJOB     | 0          |           | 1     |
| ex0TwsJOBAdd  | 0          |           | 1     |
| ex0TwsSyst    | 0          |           | 4     |
| ex0TwsType    | 1          |           | 4     |
| ex0Type       | 1          |           | 2     |
| ex0T0         | 0          |           | 1     |
| ex0T0gmtof    | 4          |           | 2     |
| ex0T0Sid      | 0          |           | 2     |
| ex0WS         | 0          |           | 1     |
| ex0WSChgLimit | 18         | 80        | 3     |
| ex0WSDOM      | 4          |           | 2     |
| ex0WSdomain   | 8          |           | 2     |
| ex0WSflags    | 18         |           | 2     |
| ex0WSflk      | 6          |           | 2     |
| ex0WSID       | 0          |           | 2     |
| ex0WSLimit    | 1A         |           | 2     |
| ex0WSlnk      | 4          |           | 2     |
| ex0WSMGR      | 0          |           | 1     |
| ex0WSN        | 0          |           | 2     |
| ex0WSsta      | 5          |           | 2     |
| ex0WSstyp     | 7          |           | 2     |

## EX1 - BULKDISC EVENT

### Example

Name : DCLEX1

Function:

This segment declares an event record for the BULKDISC command.

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 0       | (0)  | STRUCTURE | 80  | EX1        | BULKDISC EVENT           |
| 0       | (0)  | CHARACTER | 1   | EX1TYPE    | 1 FOR BULKDISC EVENT     |
| 1       | (1)  | CHARACTER | 3   | *          | RESERVED                 |
| 4       | (4)  | CHARACTER | 8   | EX1USER    | NAME OF UPDATING USER    |
| 12      | (C)  | CHARACTER | 4   | *          | RESERVED                 |
| 16      | (10) | SIGNED    | 4   | EX1CDAT    | CREATION DATE (00YYDDDF) |
| 20      | (14) | SIGNED    | 1   | EX1CTIM    | CREATION TIME (SEC* 100) |
| 24      | (18) | CHARACTER | 52  | *          | RESERVED                 |
| 76      | (4C) | CHARACTER | 4   | EX1OPCID   | EVENT ID EQQX            |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EX1      | 0          |           | 1     |
| EX1CDAT  | 10         |           | 2     |
| EX1CTIM  | 14         |           | 2     |
| EX1OPCID | 4C         |           | 2     |
| EX1TYPE  | 0          |           | 2     |
| EX1USER  | 4          |           | 2     |

## EX2 - z/OS Agent Event record

### Example

Name : DCLEX2

Function:

This record ....

| Offsets |     |           |     |            |                     |
|---------|-----|-----------|-----|------------|---------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description         |
| 0       | (0) | STRUCTURE | 80  | EX2        | zAgent event record |
| 0       | (0) | CHARACTER | 1   | EX2SYST    | '2' event           |

| Offsets |      |           |     |             |                           |
|---------|------|-----------|-----|-------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description               |
| 1       | (1)  | CHARACTER | 1   | EX2TYPE     | type event                |
| 2       | (2)  | UNSIGNED  | 1   | EX2FLAGS    | flags                     |
|         |      | 1... ..   |     | EX2SUSPD    | event suspended           |
|         |      | .1... ..  |     | EX2NUMERR   | on: err code is numeric   |
|         |      | ..1. .... |     | EX2DUMMY    | on: dummy start date      |
|         |      | ...1 1111 |     | *           | reserved                  |
| 3       | (3)  | CHARACTER | 1   | *           | reserved                  |
| 4       | (4)  | CHARACTER | 16  | EX2TOKENS   |                           |
| 4       | (4)  | CHARACTER | 8   | EX2OCCTOKEN | occurrence token          |
| 12      | (C)  | CHARACTER | 8   | EX2SUBTOKEN | submission token          |
| 20      | (14) | CHARACTER | 8   | EX2JOBNUM   | job number                |
| 28      | (1C) | CHARACTER | 1   | EX2JCLI     | parse error Y/N           |
| 29      | (1D) | CHARACTER | 1   | EX2UNKNOWN  | unknown result Y/N        |
| 30      | (1E) | SIGNED    | 2   | EX2OPNUM    | oper num                  |
| 32      | (20) | CHARACTER | 4   | EX2WSNAME   | WS name                   |
| 36      | (24) | CHARACTER | 8   | EX2JOB      | job name                  |
| 44      | (2C) | SIGNED    | 4   | EX2DAT2     | date 2                    |
| 48      | (30) | SIGNED    | 4   | EX2CDAT     | creation date (00yydddf)  |
| 52      | (34) | SIGNED    | 4   | EX2CTIM     | creation time (sec*100)   |
| 56      | (38) | SIGNED    | 4   | EX2TIM2     | time 2                    |
| 60      | (3C) | SIGNED    | 4   | EX2ERRN     | error code (integer)      |
| 60      | (3C) | CHARACTER | 4   | EX2ERRC     | used by Z remote engine   |
| 64      | (40) | CHARACTER | 4   | EX2SUBSYS   | Controller subsystem name |
| 68      | (44) | SIGNED    | 4   | EX2ADUR     | actual duration           |
| 72      | (48) | CHARACTER | 4   | *           | free                      |
| 76      | (4C) | CHARACTER | 4   | EX2OPCID    | event id 'EQQx'           |



| Offsets |      |           |     |            |                                                                    |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                        |
| 0       | (0)  | STRUCTURE | 80  | EX2XD      | XD actions layout ('X')                                            |
| 0       | (0)  | CHARACTER | 1   | EX2XDSYST  | '2' event                                                          |
| 1       | (1)  | CHARACTER | 1   | EX2XDTYPE  | type event ('X')                                                   |
| 2       | (2)  | UNSIGNED  | 1   | EX2XDFLAGS | flags                                                              |
|         |      | 1... ..   |     | EX2XDSUSPD | event suspended                                                    |
|         |      | .1.. ..   |     | EX2XDPCP   | ON: req for waitcp                                                 |
|         |      | ..1. .... |     | EX2XDPLT   | ON: req for waitlt                                                 |
|         |      | ...1 .... |     | EX2XDDPSET | ON: req for waitlt                                                 |
|         |      | .... 1111 |     | *          | reserved                                                           |
| 3       | (3)  | CHARACTER | 1   | EX2XDSUBT  | D-notif. ended/remove XD F-failed to notify<br>F-manage pending XD |
| 4       | (4)  | CHARACTER | 8   | EX2XDTOKEN | xd99 key !_ keys used                                              |
| 12      | (C)  | CHARACTER | 56  | EX2XDALIAS | xd02 key ! alternatively                                           |
| 68      | (44) | CHARACTER | 8   | *          | free                                                               |
| 76      | (4C) | CHARACTER | 4   | EX2XDOPCID | event id 'EQQx'                                                    |

| Offsets |     |           |     |              |                  |
|---------|-----|-----------|-----|--------------|------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description      |
| 0       | (0) | STRUCTURE | 80  | EX2JOBINFO   | 2I and 2B layout |
| 0       | (0) | CHARACTER | 1   | EX2ISYST     | '2' event        |
| 1       | (1) | CHARACTER | 1   | EX2ITYPE     | type event       |
| 2       | (2) | UNSIGNED  | 1   | EX2IFLAGS    | flags            |
|         |     | 1... ..   |     | EX2ISUSPD    | event suspended  |
|         |     | .111 1111 |     | *            | reserved         |
| 3       | (3) | CHARACTER | 1   | *            | reserved         |
| 4       | (4) | CHARACTER | 16  | EX2ITOKENS   |                  |
| 4       | (4) | CHARACTER | 8   | EX2IOCCTOKEN | occurrence token |
| 12      | (C) | CHARACTER | 8   | EX2ISUBTOKEN | submission token |

| Offsets |      |           |     |             |                           |
|---------|------|-----------|-----|-------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description               |
| 20      | (14) | CHARACTER | 8   | EX2IJOBNAME | matched job name          |
| 28      | (1C) | SIGNED    | 2   | EX2IOPNUM   | oper num                  |
| 30      | (1E) | CHARACTER | 2   | *           | free                      |
| 32      | (20) | CHARACTER | 4   | EX2IWSNAME  | matched WS name           |
| 36      | (24) | CHARACTER | 4   | EX2ISUBSYS  | Controller subsystem name |
| 40      | (28) | SIGNED    | 4   | EX2IIAD     | matched ia date           |
| 44      | (2C) | SIGNED    | 4   | EX2IIAT     | matched ia time           |
| 48      | (30) | CHARACTER | 28  | *           | free                      |
| 76      | (4C) | CHARACTER | 4   | EX2IOPCID   | event id 'EQQx'           |

| Offsets |      |           |     |               |                           |
|---------|------|-----------|-----|---------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description               |
| 0       | (0)  | STRUCTURE | 80  | EX2AGENTINFO  | agent info event record   |
| 0       | (0)  | CHARACTER | 1   | EX2AISYST     | '2' event                 |
| 1       | (1)  | CHARACTER | 1   | EX2AITYPE     | type event                |
| 2       | (2)  | UNSIGNED  | 1   | EX2AIFLAGS    | flags                     |
|         |      | 1... ..   |     | EX2AISUSPD    | event suspended           |
|         |      | .111 1111 |     | *             | reserved                  |
| 3       | (3)  | CHARACTER | 1   | EX2AINEWSTAT  | A   O (active or offline) |
| 4       | (4)  | SIGNED    | 4   | EX2AIFPLEVEL  | fix pack level            |
| 8       | (8)  | CHARACTER | 8   | EX2AIDEST     | destination name          |
| 16      | (10) | CHARACTER | 8   | EX2AIVERSION  | agent version             |
| 24      | (18) | CHARACTER | 16  | EX2AIOSNAME   | op. system                |
| 40      | (28) | CHARACTER | 16  | EX2AIOSLEVEL  | op. system level          |
| 56      | (38) | SIGNED    | 2   | EX2AIDUMMYCHG | first active              |
| 58      | (3A) | SIGNED    | 2   | *             | reserved                  |
| 60      | (3C) | CHARACTER | 16  | *             | reserved                  |
| 76      | (4C) | CHARACTER | 4   | EX2AIOPCID    | event id 'EQQx'           |

| Offsets |      |           |     |               |                         |
|---------|------|-----------|-----|---------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description             |
| 0       | (0)  | STRUCTURE | 80  | EX2JOBLOG     | agent info event record |
| 0       | (0)  | CHARACTER | 1   | EX2JLSYST     | '2' event               |
| 1       | (1)  | CHARACTER | 1   | EX2JLTYPE     | type event              |
| 2       | (2)  | UNSIGNED  | 1   | EX2JLFLAGS    | flags                   |
|         |      | 1... .... |     | EX2JLSUSPD    | event suspended         |
|         |      | .111 1111 |     | *             | reserved                |
| 3       | (3)  | CHARACTER | 1   | EX2JLSTATUS   | job log req status C E  |
| 4       | (4)  | CHARACTER | 8   | EX2JLOCCTOKEN | occurrence token        |
| 12      | (C)  | CHARACTER | 8   | EX2JLUSER     | job request user        |
| 20      | (14) | ADDRESS   | 4   | EX2JLBUFPtr   | job log buffer          |
| 24      | (18) | ADDRESS   | 4   | EX2JLBUFLen   | job log buffer length   |
| 28      | (1C) | SIGNED    | 2   | EX2JLOPNUM    | operation number        |
| 30      | (1E) | CHARACTER | 2   | *             | reserved                |
| 32      | (20) | SIGNED    | 4   | EX2JLLENGTH   | joblog length           |
| 36      | (24) | CHARACTER | 40  | *             | reserved                |
| 76      | (4C) | CHARACTER | 4   | EX2JLOPCID    | event id 'EQQx'         |

| Offsets |     |           |     |             |                         |
|---------|-----|-----------|-----|-------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description             |
| 0       | (0) | STRUCTURE | 100 | EX2BIND     | subscription (bind) req |
| 0       | (0) | CHARACTER | 1   | EX2BSYST    | '2' event               |
| 1       | (1) | CHARACTER | 1   | EX2BTYPE    | 'Y' type event          |
| 2       | (2) | UNSIGNED  | 1   | EX2BFLAGS   | flags                   |
|         |     | 1... .... |     | EX2BSUSPD   | event suspended         |
|         |     | .111 1111 |     | *           | reserved                |
| 3       | (3) | CHARACTER | 1   | *           | free                    |
| 4       | (4) | CHARACTER | 18  | EX2BTOMATCH |                         |
| 4       | (4) | CHARACTER | 16  | EX2BADID    | application id          |

| Offsets |      |           |     |             |                         |
|---------|------|-----------|-----|-------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description             |
| 20      | (14) | SIGNED    | 2   | EX2BOPNUM   | operation number        |
| 22      | (16) | SIGNED    | 2   | EX2BDESTNUM | number of backup dests  |
| 24      | (18) | CHARACTER | 8   | EX2BIA      | input arrival for match |
| 24      | (18) | SIGNED    | 4   | EX2BIAD     | date (00yydddf)         |
| 28      | (1C) | SIGNED    | 4   | EX2BIAT     | time (sec*100)          |
| 32      | (20) | CHARACTER | 56  | EX2BALIAS   | alias                   |
| 88      | (58) | CHARACTER | 8   | EX2BDEST1   | first destination name  |
| 96      | (60) | ADDRESS   | 4   | EX2BXPTR    | ptr to extended part    |

C code allocates only one buffer: the extended part always follows the fixed part.

| Offsets |     |           |     |              |                       |
|---------|-----|-----------|-----|--------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description           |
| 0       | (0) | STRUCTURE | *   | EX2BEXT      | subscription ext part |
| 0       | (0) | CHARACTER | 8   | EX2BDESTS(*) | backup destinations   |
| 0       | (0) | CHARACTER | 8   | EX2DESTNM    | dest name             |

#### Events constants

| Offsets |     |           |     |            |                            |
|---------|-----|-----------|-----|------------|----------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                |
| 1       |     | CHARACTER | 2   | EX2EVENT   | z-Centric Event Type       |
| 1       |     | CHARACTER | P   | EX2SPEVE   | submit - post executed     |
| 1       |     | CHARACTER | T   | EX2STEVE   | submit - post failed       |
| 1       |     | CHARACTER | s   | EX2SBEVE   | submitted                  |
| 1       |     | CHARACTER | S   | EX2SEEVE   | start execution            |
| 1       |     | CHARACTER | C   | EX2JCEVE   | job completed successfully |
| 1       |     | CHARACTER | K   | EX2JKEVE   | job killed                 |
| 1       |     | CHARACTER | E   | EX2EEEVE   | job ended in error (exec)  |
| 1       |     | CHARACTER | e   | EX2EREVE   | recovery in progress       |

| Offsets |     |           |     |             |                                     |
|---------|-----|-----------|-----|-------------|-------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                         |
| 1       |     | CHARACTER | F   | EX2EFEVE    | submission failed                   |
| 1       |     | CHARACTER | U   | EX2UUEVE    | job status unknown                  |
| 1       |     | CHARACTER | R   | EX2RREVE    | reset job status to ready           |
| 1       |     | CHARACTER | B   | EX2BFEVE    | bind failed event                   |
| 1       |     | CHARACTER | I   | EX2BIEVE    | bind ok event                       |
| 1       |     | CHARACTER | Y   | EX2BREVE    | bind request                        |
| 1       |     | CHARACTER | O   | EX2OOEVE    | online/offline event                |
| 1       |     | CHARACTER | L   | EX2JLEVE    | joblog retrieval                    |
| 1       |     | CHARACTER | X   | EX2XDEVE    | manage XD                           |
| 1       |     | CHARACTER | C   | EX2JLCOM    | joblog retrieval complete           |
| 1       |     | CHARACTER | E   | EX2JLERR    | joblog retrieval error              |
| 1       |     | CHARACTER | S   | EX2JLSUS    | joblog retrieval suspend            |
| 1       |     | CHARACTER | P   | EX2XDPND    | check pending                       |
| 1       |     | CHARACTER | K   | EX2XDKLL    | kill bind request                   |
| 1       |     | CHARACTER | F   | EX2XDERR    | failed to notify mark XD failed     |
| 1       |     | CHARACTER | D   | EX2XDDEL    | notification completed remove XD    |
| 1       |     | CHARACTER | A   | EX2_DESTACT | destination status active           |
| 1       |     | CHARACTER | O   | EX2_DESTOFF | destination status offline          |
| 1       |     | CHARACTER | P   | EX2BRPRE    | matching criteria closest preceding |
| 1       |     | CHARACTER | I   | EX2BRINT    | matching criteria interval          |

## Cross reference

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| EX2           | 0          |           | 1     |
| EX2ADUR       | 44         |           | 2     |
| EX2AGENTINFO  | 0          |           | 1     |
| EX2AIDEST     | 8          |           | 2     |
| EX2AIDUMMYCHG | 38         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| EX2AIFLAGS   | 2          |           | 2     |
| EX2AIFPLEVEL | 4          |           | 2     |
| EX2AINEWSTAT | 3          |           | 2     |
| EX2AIOPCID   | 4C         |           | 2     |
| EX2AIOSLEVEL | 28         |           | 2     |
| EX2AIOSNAME  | 18         |           | 2     |
| EX2AISUSPD   | 2          | 80        | 3     |
| EX2AISYST    | 0          |           | 2     |
| EX2AITYPE    | 1          |           | 2     |
| EX2AIVERSION | 10         |           | 2     |
| EX2BADID     | 4          |           | 3     |
| EX2BALIAS    | 20         |           | 2     |
| EX2BDESTNUM  | 16         |           | 2     |
| EX2BDESTS    | 0          |           | 2     |
| EX2BDEST1    | 58         |           | 2     |
| EX2BEXT      | 0          |           | 1     |
| EX2BFLAGS    | 2          |           | 2     |
| EX2BIA       | 18         |           | 2     |
| EX2BIAD      | 18         |           | 3     |
| EX2BIAT      | 1C         |           | 3     |
| EX2BIND      | 0          |           | 1     |
| EX2BOPNUM    | 14         |           | 3     |
| EX2BSUSPD    | 2          | 80        | 3     |
| EX2BSYST     | 0          |           | 2     |
| EX2BTOMATCH  | 4          |           | 2     |
| EX2BTYPE     | 1          |           | 2     |
| EX2BXPTR     | 60         |           | 2     |
| EX2CDAT      | 30         |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| EX2CTIM       | 34         |           | 2     |
| EX2DAT2       | 2C         |           | 2     |
| EX2DESTNM     | 0          |           | 3     |
| EX2DUMMY      | 2          | 20        | 3     |
| EX2ERRC       | 3C         |           | 3     |
| EX2ERRN       | 3C         |           | 2     |
| EX2FLAGS      | 2          |           | 2     |
| EX2IFLAGS     | 2          |           | 2     |
| EX2IIAD       | 28         |           | 2     |
| EX2IIAT       | 2C         |           | 2     |
| EX2IJOBNAME   | 14         |           | 2     |
| EX2IOCCTOKEN  | 4          |           | 3     |
| EX2IOPCID     | 4C         |           | 2     |
| EX2IOPNUM     | 1C         |           | 2     |
| EX2ISUBSYS    | 24         |           | 2     |
| EX2ISUBTOKEN  | C          |           | 3     |
| EX2ISUSPD     | 2          | 80        | 3     |
| EX2ISYST      | 0          |           | 2     |
| EX2ITOKENS    | 4          |           | 2     |
| EX2ITYPE      | 1          |           | 2     |
| EX2IWSNAME    | 20         |           | 2     |
| EX2JCLI       | 1C         |           | 2     |
| EX2JLBUFLN    | 18         |           | 2     |
| EX2JLBUFPTR   | 14         |           | 2     |
| EX2JLFLAGS    | 2          |           | 2     |
| EX2JLLENGTH   | 20         |           | 2     |
| EX2JLOCCTOKEN | 4          |           | 2     |
| EX2JLOPCID    | 4C         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| EX2JLOPNUM  | 1C         |           | 2     |
| EX2JLSTATUS | 3          |           | 2     |
| EX2JLSUSPD  | 2          | 80        | 3     |
| EX2JLSYST   | 0          |           | 2     |
| EX2JLTYPE   | 1          |           | 2     |
| EX2JLUSER   | C          |           | 2     |
| EX2JOB      | 24         |           | 2     |
| EX2JOBINFO  | 0          |           | 1     |
| EX2JOBLOG   | 0          |           | 1     |
| EX2JOBNUM   | 14         |           | 2     |
| EX2NUMERR   | 2          | 40        | 3     |
| EX2OCCTOKEN | 4          |           | 3     |
| EX2OPCID    | 4C         |           | 2     |
| EX2OPNUM    | 1E         |           | 2     |
| EX2SUBSYS   | 40         |           | 2     |
| EX2SUBTOKEN | C          |           | 3     |
| EX2SUSPD    | 2          | 80        | 3     |
| EX2SYST     | 0          |           | 2     |
| EX2TIM2     | 38         |           | 2     |
| EX2TOKENS   | 4          |           | 2     |
| EX2TYPE     | 1          |           | 2     |
| EX2UNKNOWN  | 1D         |           | 2     |
| EX2WSNAME   | 20         |           | 2     |
| EX2XD       | 0          |           | 1     |
| EX2XDALIAS  | C          |           | 2     |
| EX2XDDPSET  | 2          | 10        | 3     |
| EX2XDFLAGS  | 2          |           | 2     |
| EX2XDOPCID  | 4C         |           | 2     |



| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EX2XDPCP   | 2          | 40        | 3     |
| EX2XDPLT   | 2          | 20        | 3     |
| EX2XDSUBT  | 3          |           | 2     |
| EX2XDSUSPD | 2          | 80        | 3     |
| EX2XDSYST  | 0          |           | 2     |
| EX2XDToken | 4          |           | 2     |
| EX2XDTYPE  | 1          |           | 2     |

## EXE - Backup event

### Example

Name : DCLEXE

Function:

This segment declares a resource data set backup event record. These event records are built via the EQQEVPGM and EQQEVCMDB programs, and they are passed to the event writer via CSA buffers, and written to an event data set as part of an event record by the event writer.

| Offsets |      |           |     |            |                                               |
|---------|------|-----------|-----|------------|-----------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                   |
| 0       | (0)  | STRUCTURE | 80  | EXE        | BACKUP EVENT                                  |
| 0       | (0)  | CHARACTER | 1   | EXETYPE    | 'E' FOR BACKUP EVENT                          |
| 1       | (1)  | CHARACTER | 2   | EXERES     | 'CP' = CURRENT PLAN 'JS' = JCL REPOSITORY DSN |
| 3       | (3)  | CHARACTER | 1   | *          | RESERVED                                      |
| 4       | (4)  | CHARACTER | 8   | EXEUSER    | NAME OF UPDATING USER                         |
| 12      | (C)  | CHARACTER | 4   | *          | RESERVED                                      |
| 16      | (10) | SIGNED    | 4   | EXECDAT    | CREATION DATE (00YYDDDF)                      |
| 20      | (14) | SIGNED    | 4   | EXECTIM    | CREATION TIME (SEC-100)                       |
| 24      | (18) | CHARACTER | 52  | *          | RESERVED                                      |
| 76      | (4C) | CHARACTER | 4   | EXEOPCID   | EVENT ID 'EQQX'                               |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXE      | 0          |           | 1     |
| EXECDAT  | 10         |           | 2     |
| EXECTIM  | 14         |           | 2     |
| EXEOPCID | 4C         |           | 2     |
| EXERES   | 1          |           | 2     |
| EXETYPE  | 0          |           | 2     |
| EXEUSER  | 4          |           | 2     |

## EXF - Joblog retrieval event

## Example

Name : DCLEXF

Function:

This segment declares the joblog retrieval events for the Archiver.

The events describe the following stages of joblog retrieval:

FI      initiation  
 F0      started  
 F2      ended

Joblog Retrieval events are all created on the Controller side:

FI is created by GS task, when request to FL is sent

F0 is created by FL task, when request from GS is received

F2 is created by FL task, when retrieve result must be sent

| Offsets |     |           |     |            |                                                                                                                           |
|---------|-----|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                                                               |
| 0       | (0) | STRUCTURE | 80  | EXF        | JOBLOG-RETRIEVAL EVENT                                                                                                    |
| 0       | (0) | CHARACTER | 1   | EXFEVTYP   | EVENT TYPE = F                                                                                                            |
| 1       | (1) | CHARACTER | 1   | EXFTYPE    | TYPE OF INITIATED PROCESS I =<br>JOBLOG RETRIEVAL INITIATED 0 =<br>JOBLOG RETRIEVAL STARTED 2 =<br>JOBLOG RETRIEVAL ENDED |

| Offsets |      |           |     |            |                                                                   |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                       |
| 2       | (2)  | CHARACTER | 2   | *          | RESERVED                                                          |
| 4       | (4)  | CHARACTER | 16  | EXFADID    | APPLICATION ID                                                    |
| 20      | (14) | CHARACTER | 10  | EXFIA      | INPUT ARRIVAL                                                     |
| 20      | (14) | CHARACTER | 6   | EXFIAD     | .. IA DATE YYMMDD                                                 |
| 26      | (1A) | CHARACTER | 4   | EXFIAT     | .. IA TIME HHMM                                                   |
| 30      | (1E) | UNSIGNED  | 2   | EXFFLAGS   | NOT USED                                                          |
| 32      | (20) | CHARACTER | 30  | EXFTYPES   | DECLARATION OF TYPES                                              |
| 62      | (3E) | SIGNED    | 2   | EXFGMTOF   | GMT OFFSET IN MINUTES                                             |
| 64      | (40) | CHARACTER | 8   | EXFTIMES   | REQUEST TIME STAMP AS PASSED<br>FROM THE CONTROLLER WORD<br>BNDRY |
| 64      | (40) | SIGNED    | 4   | EXFTDATE   | DATE FORMAT (00YYDDDF)                                            |
| 68      | (44) | SIGNED    | 4   | EXFTTIME   | TIME FORMAT (SECS*100)                                            |
| 72      | (48) | CHARACTER | 4   | EXFSSNM    | NOT USED                                                          |
| 76      | (4C) | CHARACTER | 4   | EXFID      | EVENT IDENTIFICATION 'EQQN'                                       |

| Offsets |      |           |     |            |                                |
|---------|------|-----------|-----|------------|--------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                    |
| 32      | (20) | STRUCTURE | 30  | EXFTYPEI   | FI=JOBLOG-RETRIEVAL INITIATION |
| 32      | (20) | UNSIGNED  | 2   | EXFIOPR#   | OPERATION NUMBER               |
| 34      | (22) | CHARACTER | 8   | EXFIUSER   | TSO USERID                     |
| 42      | (2A) | CHARACTER | 4   | EXFIWS     | WORK STATION NAME              |
| 46      | (2E) | CHARACTER | 8   | EXFIJNM    | JOBNAME                        |
| 54      | (36) | CHARACTER | 8   | EXFIJID    | JOB ID                         |

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 32      | (20) | STRUCTURE | 30  | EXFTYPE0   | F0=JOBLOG-RETRIEVAL STARTED |
| 32      | (20) | SIGNED    | 4   | EXF0OCC#   | OCCURRENCE NUMBER           |

| Offsets |      |           |     |            |                  |
|---------|------|-----------|-----|------------|------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description      |
| 36      | (24) | SIGNED    | 4   | EXF0OPR#   | OPERATION NUMBER |
| 40      | (28) | CHARACTER | 8   | EXF0JNM    | JOBNAME          |
| 48      | (30) | CHARACTER | 8   | EXF0JID    | JOB ID           |
| 56      | (38) | CHARACTER | 6   | *          | FREE             |

| Offsets |      |           |     |            |                                                                                             |
|---------|------|-----------|-----|------------|---------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                 |
| 32      | (20) | STRUCTURE | 30  | EXF2TYPE2  | F2=JOBLOG-RETRIEVAL ENDED                                                                   |
| 32      | (20) | SIGNED    | 4   | EXF2OPR#   | OPERATION NUMBER                                                                            |
| 36      | (24) | CHARACTER | 1   | EXF2STAT   | FINAL RESULT OF JOBLOG RETRIEVAL<br>C = COMPLETED NORMALLY E =<br>PROCESSING ENDED IN ERROR |
| 37      | (25) | CHARACTER | 1   | EXF2XST    | ' ' = DEFAULT VALUE                                                                         |
| 38      | (26) | CHARACTER | 8   | EXF2USER   | USERID TO BE NOTIFIED                                                                       |
| 46      | (2E) | CHARACTER | 1   | EXF2TYPE   | REQUEST TYPE J = JOBLOG ONLY A =<br>ALL IN MSGCLASS                                         |
| 47      | (2F) | CHARACTER | 4   | EXF2WSN    | WORK STATION NAME                                                                           |
| 51      | (33) | CHARACTER | 11  | *          | RESERVED                                                                                    |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXF      | 0          |           | 1     |
| EXFADID  | 4          |           | 2     |
| EXFEVTYP | 0          |           | 2     |
| EXFFLAGS | 1E         |           | 2     |
| EXFGMTOF | 3E         |           | 2     |
| EXFIA    | 14         |           | 2     |
| EXFIAD   | 14         |           | 3     |
| EXFIAT   | 1A         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXFID    | 4C         |           | 2     |
| EXFIJID  | 36         |           | 2     |
| EXFIJNM  | 2E         |           | 2     |
| EXFIOPR# | 20         |           | 2     |
| EXFIUSER | 22         |           | 2     |
| EXFIWS   | 2A         |           | 2     |
| EXFSSNM  | 48         |           | 2     |
| EXFTDATE | 40         |           | 3     |
| EXFTIMES | 40         |           | 2     |
| EXFTTIME | 44         |           | 3     |
| EXFTYPE  | 1          |           | 2     |
| EXFTYPEI | 20         |           | 1     |
| EXFTYPES | 20         |           | 2     |
| EXFTYPE0 | 20         |           | 1     |
| EXFTYPE2 | 20         |           | 1     |
| EXF0JID  | 30         |           | 2     |
| EXF0JNM  | 28         |           | 2     |
| EXF0OCC# | 20         |           | 2     |
| EXF0OPR# | 24         |           | 2     |
| EXF2OPR# | 20         |           | 2     |
| EXF2STAT | 24         |           | 2     |
| EXF2TYPE | 2E         |           | 2     |
| EXF2USER | 26         |           | 2     |
| EXF2WSN  | 2F         |           | 2     |
| EXF2XST  | 25         |           | 2     |

## EXI - Initialization event

### Example

Name : DCLEXI

Function:

This segment declares an initialization event. These event records used to coordinate and checkpoint submit requests between the controller and the trackers.

| Offsets |      |           |     |             |                                                                                                                                                                                           |
|---------|------|-----------|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                                                                                                                                               |
| 0       | (0)  | STRUCTURE | 80  | EXI         | INITIALIZATION EVENT                                                                                                                                                                      |
| 0       | (0)  | CHARACTER | 1   | EXIEVTYP    | EVENT TYPE = I                                                                                                                                                                            |
| 1       | (1)  | CHARACTER | 3   | EXITYPE     | TYPE OF INITIATED PROCESS 'J0' =<br>SUBMIT SEQ# EVENT J1 = JCL SUBMIT<br>J2 = JCL STARTED TASK WTO = WTO<br>MESSAGE REL = JOB RELEASE OSI =<br>OSI TYPE SUBMIT WLM = WLM JOB<br>PROMOTION |
| 4       | (4)  | CHARACTER | 4   | EXIWSID     | WORK STATION ID                                                                                                                                                                           |
| 8       | (8)  | CHARACTER | 16  | EXIADID     | APPLICATION NAME                                                                                                                                                                          |
| 8       | (8)  | CHARACTER | 16  | EXIJ4SCHENV | SCHEDULING ENVIRONMENT NAME<br>(J4)                                                                                                                                                       |
| 8       | (8)  | CHARACTER | 8   | EXIRCRE     | REQUEST CREATE TIME (J0)                                                                                                                                                                  |
| 8       | (8)  | SIGNED    | 4   | EXIRCRED    | DATE (FORMAT: 00YYDDDF)                                                                                                                                                                   |
| 12      | (C)  | SIGNED    | 4   | EXIRCRET    | TIME (FORMAT: SECS*100)                                                                                                                                                                   |
| 16      | (10) | CHARACTER | 8   | EXIOCCTOK   | OCCURRENCE TOKEN                                                                                                                                                                          |
| 16      | (10) | UNSIGNED  | 2   | EXIWSEQ#    | SUBMIT SEQ# FROM WS                                                                                                                                                                       |
| 18      | (12) | CHARACTER | 6   | *           |                                                                                                                                                                                           |
| 24      | (18) | CHARACTER | 10  | EXIOCIA     | OCCURRENCE INPUT ARRIVAL                                                                                                                                                                  |
| 24      | (18) | CHARACTER | 8   | EXIJ4OCCTOK | OCCURRENCE TOKEN (J4)                                                                                                                                                                     |
| 32      | (20) | SIGNED    | 2   | EXIJ4SPLEX  | SYSPLEX ID (J4)                                                                                                                                                                           |
| 34      | (22) | SIGNED    | 2   | EXIOPNUM    | OPERATION NUMBER                                                                                                                                                                          |
| 34      | (24) | SIGNED    | 4   | EXIWLRC     | WLM PROMOTION REQUEST RC                                                                                                                                                                  |
| 36      | (24) | BITSTRING | 4   | EXIFLAGS    | FLAG AREA                                                                                                                                                                                 |
| 36      | (24) | BITSTRING | 1   | EXIFLAG1    | FLAG BYTE 1                                                                                                                                                                               |

| Offsets |      |           |     |            |                                                     |
|---------|------|-----------|-----|------------|-----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                         |
|         |      | 1... ..   |     | EXIFAIL    | ON=INIT OF PROCESS FAILED                           |
|         |      | .1.. ..   |     | EXISFAIL   | ON=SUBMIT FAIL                                      |
|         |      | ..1. .... |     | EXINOEDP   | ON=NO EDP UPDATES FOR THIS EV                       |
|         |      | ...1 .... |     | EXIWLMAH   | ON= JOB ALREADY IN HI PERFORM CLASS                 |
|         |      | .... 1... |     | EXISEUND   | ON= SCHEDULING ENVIRONMENT NOT DEFINED              |
|         |      | .... .1.. |     | EXISENOAVA | ON= SCHEDULING ENVIRONMENT NOT AVAILABLE            |
|         |      | .... ..1. |     | EXISENOJPL | ON= SCHEDULING ENVIRONMENT NOT AVAILABLE AT JESPLEX |
|         |      | .... ...1 |     | *          | RESERVED                                            |
| 37      | (25) | BITSTRING | 1   | EXIFLAG2   | FLAG BYTE 2                                         |
|         |      | 1... ..   |     | EXI2FAIL   | INIT OF PROCESS FAILED                              |
|         |      | .1.. ..   |     | EXI2PLTE   | POSSIBLE LATE I EVENT                               |
|         |      | ..1. .... |     | EXI2BAD    | STC FUNCTION NOT ACTIVE                             |
|         |      | ...1 .... |     | EXI2NJSS   | NOT JES MANAGED SUBSYSTEM                           |
|         |      | .... 1... |     | EXI2FJES   | STC FAILED JES INPUT SERVICE                        |
|         |      | .... .1.. |     | EXI2NCF    | NCF DESTINATION NOT VALID                           |
|         |      | .... ..11 |     | *          | RESERVED                                            |
| 38      | (26) | BITSTRING | 1   | EXIFLAG3   | FLAG BYTE 3                                         |
|         |      | 1... ..   |     | EXI3OOS    | SUBMIT OUT-OF-SEQUENCE                              |
|         |      | .1.. ..   |     | EXI3NCKP   | CHECKPOINT NOT ACTIVE                               |
|         |      | ..1. .... |     | EXI31ST    | 1ST TIME SWITCH                                     |
|         |      | ...1 .... |     | EXI3MISR#  | SEQ REQUEST MISMATCH                                |
|         |      | .... 1... |     | EXI3ALLOK  | VALID SUBMIT SEQUENCE OF WA VS. SU                  |
|         |      | .... .1.. |     | *          | RESERVED                                            |
|         |      | .... ..1. |     | EXI3BADJ0  | BAD J0 EVENT (OR CP)                                |

| Offsets |      |           |     |            |                                       |
|---------|------|-----------|-----|------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                           |
|         |      | .... ...1 |     | EXI3RDOP   | ERROR READ CP OPER                    |
| 39      | (27) | BITSTRING | 1   | EXIFLAG4   | FLAG BYTE 4                           |
|         |      | 1... .... |     | EXI4RDJN   | ERROR READ CP JNT                     |
|         |      | .1.. .... |     | EXI4NSUB   | SUB04 IS BLANK                        |
|         |      | ..1. .... |     | EXI4JOB#   | JES04 IS BLANK                        |
|         |      | ...1 .... |     | *          | RESERVED                              |
|         |      | .... 1... |     | EXI4NSOP   | CPLSUBOP IS SET TO OFF                |
|         |      | .... .11. |     | *          | RESERVED                              |
|         |      | .... ...1 |     | EXI4SUCC   | SUCCESSFUL SUBMIT                     |
| 40      | (28) | CHARACTER | 8   | EXIJOBN    | JOB/STC NAME                          |
| 40      | (28) | UNSIGNED  | 2   | EXIWORK#   | CURRENT CATCHUP VALUE(J0)             |
| 42      | (2A) | UNSIGNED  | 2   | EXIESEQW   | CURRENT EVDS VALUE (J0)               |
| 44      | (2C) | UNSIGNED  | 2   | EXIEDOA#   | CURRENT DOA VALUE (J0)                |
| 46      | (2E) | UNSIGNED  | 2   | EXIJASID   | JOB/STC ASID                          |
| 48      | (30) | CHARACTER | 8   | EXIJOBID   | JOB/STC NUMBER (J1, J2 ONLY)          |
| 48      | (30) | CHARACTER | 8   | EXIWLMLCLS | WLM CLASS (WLM ONLY)                  |
| 48      | (30) | CHARACTER | 1   | EXIEVLOG   | RESERVED (WLM)                        |
| 49      | (31) | CHARACTER | 7   | *          | RESERVED (WLM)                        |
| 56      | (38) | SIGNED    | 2   | EXIGMTOF   | GMT OFFSET, IN MINUTES                |
| 58      | (3A) | SIGNED    | 2   | EXIWLMRSN  | WLM PROMOTION REQUEST, REASON CODE    |
| 60      | (3C) | CHARACTER | 8   | EXICREAT   | EVENT RECORD CREATION TIME WORD BNDRY |
| 60      | (3C) | SIGNED    | 4   | EXIDATE    | DATE FORMAT (00YYDDDF)                |
| 64      | (40) | SIGNED    | 4   | EXITIME    | TIME FORMAT (SECS*100)                |
| 68      | (44) | CHARACTER | 4   | EXISSNM    | DQE ORIGINATING SUBSYS NAME           |
| 72      | (48) | UNSIGNED  | 2   | EXIESEQ#   | CURRENT EVDS SEQ# (J0)                |
| 74      | (4A) | UNSIGNED  | 2   | EXISSEQ#   | CURRENT SUBMIT SEQ# (J0)              |



| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 74      | (4A) | UNSIGNED  | 1   | EXIRSEQ#   | CURRENT REQUEST SEQ# (J0) |
| 75      | (4B) | CHARACTER | 1   | *          | RESERVED                  |
| 76      | (4C) | CHARACTER | 4   | EXIID      | EVENT ID 'EQQX'           |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| EXI         | 0          |           | 1     |
| EXIADID     | 8          |           | 2     |
| EXICREAT    | 3C         |           | 2     |
| EXIDATE     | 3C         |           | 3     |
| EXIEDOA#    | 2C         |           | 3     |
| EXIESEQ#    | 48         |           | 2     |
| EXIESEQW    | 2A         |           | 3     |
| EXIEVLOG    | 30         |           | 4     |
| EXIEVTYP    | 0          |           | 2     |
| EXIFAIL     | 24         | 80        | 5     |
| EXIFLAGS    | 24         |           | 3     |
| EXIFLAG1    | 24         |           | 4     |
| EXIFLAG2    | 25         |           | 4     |
| EXIFLAG3    | 26         |           | 4     |
| EXIFLAG4    | 27         |           | 4     |
| EXIGMTOF    | 38         |           | 2     |
| EXIID       | 4C         |           | 2     |
| EXIJASID    | 2E         |           | 3     |
| EXIJOBID    | 30         |           | 2     |
| EXIJOBN     | 28         |           | 2     |
| EXIJ4OCCTOK | 18         |           | 3     |
| EXIJ4SCHENV | 8          |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXIJ4SPLEX | 20         |           | 3     |
| EXINOEDP   | 24         | 20        | 5     |
| EXIOCCTOK  | 10         |           | 3     |
| EXIOCIA    | 18         |           | 2     |
| EXIOPNUM   | 22         |           | 2     |
| EXIRCRE    | 8          |           | 3     |
| EXIRCRED   | 8          |           | 4     |
| EXIRCRET   | C          |           | 4     |
| EXIRSEQ#   | 4A         |           | 3     |
| EXISENOAVA | 24         | 04        | 5     |
| EXISENOJPL | 24         | 2         | 5     |
| EXISENOVA  | 24         | 4         | 4     |
| EXISEUND   | 24         | 8         | 5     |
| EXISFAIL   | 24         | 40        | 5     |
| EXISSEQ#   | 4A         |           | 2     |
| EXISSNM    | 44         |           | 2     |
| EXITIME    | 40         |           | 3     |
| EXITYPE    | 1          |           | 2     |
| EXIWLMAH   | 24         | 10        | 5     |
| EXIWLMCLS  | 30         |           | 3     |
| EXIWLMRC   | 24         |           | 2     |
| EXIWLMRSN  | 3A         |           | 2     |
| EXIWORK#   | 28         |           | 3     |
| EXIWSEQ#   | 10         |           | 3     |
| EXIWSID    | 4          |           | 2     |
| EXI2BAD    | 25         | 20        | 5     |
| EXI2FAIL   | 25         | 80        | 5     |
| EXI2FJES   | 25         | 08        | 5     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| EXI2NCF   | 25         | 04        | 5     |
| EXI2NJSS  | 25         | 10        | 5     |
| EXI2PLTE  | 25         | 40        | 5     |
| EXI3ALLOK | 26         | 08        | 5     |
| EXI3BADJ0 | 26         | 02        | 4     |
| EXI3MISR# | 26         | 10        | 5     |
| EXI3NCKP  | 26         | 40        | 5     |
| EXI3OOS   | 26         | 80        | 5     |
| EXI3RDOP  | 26         | 01        | 4     |
| EXI31ST   | 26         | 20        | 5     |
| EXI4JOB#  | 27         | 20        | 5     |
| EXI4NSOP  | 27         | 08        | 5     |
| EXI4NSUB  | 27         | 40        | 5     |
| EXI4RDJN  | 27         | 80        | 5     |
| EXI4SUCC  | 27         | 01        | 5     |

## EXM - Job submit activate/deactivate event

### Example

Name : DCLEXM

Function:

This segment declares a job submit activate/deactivate event. These events are built by eqqevpgm and eqqevcmd programs, are passed to the event writer via csa buffers, and are written to an event data set as part of an event record by the event writer.

| Offsets |     |           |     |            |                                     |
|---------|-----|-----------|-----|------------|-------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                         |
| 0       | (0) | STRUCTURE | 80  | EXM        | JOB SUB ACT/DEACT EVENT             |
| 0       | (0) | CHARACTER | 1   | EXMTYPE    | 'M' FOR JOBSUB EVENT                |
| 1       | (1) | CHARACTER | 1   | EXMACT     | 'Y' FOR ACTIVATE 'N' FOR DEACTIVATE |

| Offsets |      |           |     |            |                                                                                    |
|---------|------|-----------|-----|------------|------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                        |
| 2       | (2)  | CHARACTER | 1   | EXMJSTYP   | 'H' = HOST ENVIRONMENT<br>'F' = DISTRIBUTED ENVIRONMENT<br>'B' = BOTH ENVIRONMENTS |
| 3       | (3)  | CHARACTER | 1   | *          | RESERVED                                                                           |
| 4       | (4)  | CHARACTER | 8   | EXMUSER    | TSO USER ID                                                                        |
| 12      | (C)  | CHARACTER | 4   | *          | RESERVED                                                                           |
| 16      | (10) | SIGNED    | 4   | EXMCDAT    | EVENT DATE (00YYDDDF)                                                              |
| 20      | (14) | SIGNED    | 4   | EXMCTIM    | EVENT TIME (SEC-100)                                                               |
| 24      | (18) | CHARACTER | 52  | *          | RESERVED                                                                           |
| 76      | (4C) | CHARACTER | 4   | EXMOPCID   | EVENT ID EQQX                                                                      |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXM      | 0          |           | 1     |
| EXMACT   | 1          |           | 2     |
| EXMCDAT  | 10         |           | 2     |
| EXMCTIM  | 14         |           | 2     |
| EXMJSTYP | 2          |           | 2     |
| EXMOPCID | 4C         |           | 2     |
| EXMTYPE  | 0          |           | 2     |
| EXMUSER  | 4          |           | 2     |

## EXO - ON/OFF line event

### Example

Name : DCLEXO

Function:

This segment declares a workstation availability event generated by WSSTAT, EQQUSINW, EQQUSIN, or from TCP/IP connected trackers.

| Offsets |      |            |     |             |                                                                 |
|---------|------|------------|-----|-------------|-----------------------------------------------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)  | Description                                                     |
| 0       | (0)  | STRUCTURE  | 80  | EXO         | ON/OFF LINE EVENT                                               |
| 0       | (0)  | CHARACTER  | 1   | EXOEVTYP    | EVENT TYPE = 0                                                  |
| 1       | (1)  | CHARACTER  | 1   | *           | RESERVED                                                        |
| 2       | (2)  | CHARACTER  | 1   | EXOSTYPE    | EXO SUBTYPE 'F'=OFF,'N'=ON                                      |
| 3       | (3)  | CHARACTER  | 8   | EXODEST     | DESTINATION                                                     |
| 11      | (B)  | CHARACTER  | 1   | EXOTYPE     | DESTINATION TYPE:<br>'X'=XCF<br>'D'=DASD<br>'H'=HOST<br>'S'=SNA |
| 12      | (C)  | BITSTRING  | 4   | EXOFLGS     | EXO FLAGS                                                       |
|         |      | 1... ....  |     | EXOSYSG     | SYSTEM GONE FLAG                                                |
|         |      | .1... .... |     | EXOEDP      | REQUEST FOR EDP                                                 |
|         |      | ..1. ....  |     | EXOUX009    | EVENT ISSUED DUE TO UX009 RC                                    |
| 12      | (C)  | BITSTRING  | 3   | *           | RESERVED                                                        |
| 16      | (10) | SIGNED     | 2   | EXOGMTOF    | GMT OFFSET IN MINUTES                                           |
| 18      | (12) | SIGNED     | 2   | *           | RESERVED                                                        |
| 20      | (14) | CHARACTER  | 8   | EXOCREAT    | EVENT RECORD CREATION TIME<br>WORD BNDRY                        |
| 20      | (14) | SIGNED     | 4   | EXODATE     | DATE FORMAT (00YYDDDF)                                          |
| 24      | (18) | SIGNED     | 4   | EXOTIME     | TIME FORMAT (SECS*100)                                          |
| 28      | (1C) | CHARACTER  | 8   | EXOEVT      | EVENT CREATION TIME WORD BNDRY                                  |
| 28      | (1C) | SIGNED     | 4   | EXOEDATE    | DATE FORMAT (00YYDDDF)                                          |
| 32      | (20) | SIGNED     | 4   | EXOETIME    | TIME FORMAT (SECS*100)                                          |
| 36      | (24) | CHARACTER  | 4   | EXOWSNAME   | WORKSTATION NAME                                                |
| 40      | (28) | CHARACTER  | 1   | EXOREROUTE  | REROUTE INDICATOR                                               |
| 41      | (29) | CHARACTER  | 1   | EXOSTARTOPR | STARTED OPERATIONS ACTION                                       |
| 42      | (2A) | CHARACTER  | 4   | EXOALTWS    | ALTERNATE WS NAME                                               |

| Offsets |      |           |     |            |                     |
|---------|------|-----------|-----|------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description         |
| 46      | (2E) | CHARACTER | 1   | EXOAACT    | ACTIONS ON ACTIVATE |
| 47      | (2F) | CHARACTER | 29  | *          | RESERVED            |
| 76      | (4C) | CHARACTER | 4   | EXOID      | EVENT ID 'EQQX'     |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| EXO         | 0          |           | 1     |
| EXOAACT     | 2E         |           | 2     |
| EXOALTWS    | 2A         |           | 2     |
| EXOCREAT    | 14         |           | 2     |
| EXODATE     | 14         |           | 3     |
| EXODEST     | 3          |           | 2     |
| EXOEDATE    | 1C         |           | 3     |
| EXOEDP      | C          | 40        | 3     |
| EXOETIME    | 20         |           | 3     |
| EXOEVET     | 1C         |           | 2     |
| EXOEVTYP    | 0          |           | 2     |
| EXOFLGS     | C          |           | 2     |
| EXOGMTOF    | 10         |           | 2     |
| EXOID       | 4C         |           | 2     |
| EXOREROUTE  | 28         |           | 2     |
| EXOSTARTOPR | 29         |           | 2     |
| EXOSTYPE    | 2          |           | 2     |
| EXOSYSG     | C          | 80        | 3     |
| EXOTIME     | 18         |           | 3     |
| EXOTYPE     | B          |           | 2     |
| EXOUX009    | C          | 20        | 3     |
| EXOWSNAME   | 24         |           | 2     |

## EXP - Restart and clean up event

### Example

Name : DCLEXP

Function:

This segment declares the restart and clean up event.

| Offsets |      |           |     |            |                                                                                                                                                                                                                   |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                                                                                                       |
| 0       | (0)  | STRUCTURE | 80  | EXP        | JOBLOG RETRIEVAL EVENT                                                                                                                                                                                            |
| 0       | (0)  | CHARACTER | 1   | EXPEVTYP   | EVENT TYPE = P                                                                                                                                                                                                    |
| 1       | (1)  | CHARACTER | 1   | EXPTYPE    | TYPE OF INITIATED PROCESS:<br>I=OPINFO RETRIEVAL INITIATED<br>O=OPINFO RETRIEVAL STARTED<br>2=OPINFO RETRIEVAL ENDED<br>C=CLEAN UP EVENT D=DELETE<br>RESTART AND CLEANUP DSTORE OLD<br>ENTRIES X=ASK OPINFO RETRY |
| 2       | (2)  | CHARACTER | 1   | EXPSUBT    | SUBTYPE: I=CLEAN UP INIT 0=CLEAN<br>UP START 2=CLEAN UP END                                                                                                                                                       |
| 3       | (3)  | CHARACTER | 1   | EXPCALLER  | G=GS TASK W=WSA TASK E=EM TASK<br>A=AR TASK F=FL TASK                                                                                                                                                             |
| 4       | (4)  | CHARACTER | 16  | EXPADID    | ADID                                                                                                                                                                                                              |
| 20      | (14) | CHARACTER | 8   | EXPOCCTOK  | OCCURRENCE TOKEN                                                                                                                                                                                                  |
| 28      | (1C) | CHARACTER | 8   | EXPDEST    | DESTINATION                                                                                                                                                                                                       |
| 36      | (24) | CHARACTER | 30  | EXPTYPES   | DECLARATION OF TYPES                                                                                                                                                                                              |
| 66      | (42) | UNSIGNED  | 2   | EXPGMTOF   | GMT OFFSET IN MINUTES                                                                                                                                                                                             |
| 68      | (44) | CHARACTER | 8   | EXPTIMES   | REQUEST TIME STAMP AS PASSED<br>FROM THE CONTROLLER                                                                                                                                                               |
| 68      | (44) | SIGNED    | 4   | EXPTDATE   | DATE FORMAT (00YYDDDF)                                                                                                                                                                                            |
| 72      | (48) | SIGNED    | 4   | EXPTTIME   | TIME FORMAT (SECS*100)                                                                                                                                                                                            |
| 76      | (4C) | CHARACTER | 4   | EXPID      | EVENT IDENTIFICATION (EQQn)                                                                                                                                                                                       |

| Offsets |      |           |     |            |                                                      |
|---------|------|-----------|-----|------------|------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                          |
| 36      | (24) | STRUCTURE | 30  | EXPTYPED   | PD=DELETE RESTART AND CLEAN UP<br>DSTORE OLD ENTRIES |
| 36      | (24) | CHARACTER | 8   | EXPDCP16   | CP16 ID                                              |
| 44      | (2C) | CHARACTER | 22  | *          | FREE                                                 |

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 36      | (24) | STRUCTURE | 30  | EXPTYPEX   | PX=ASK OPINFO RETRY    |
| 36      | (24) | CHARACTER | 8   | EXPXJNM    |                        |
| 44      | (2C) | CHARACTER | 8   | EXPXJID    |                        |
| 52      | (34) | SIGNED    | 4   | EXPXRDRD   |                        |
| 56      | (38) | SIGNED    | 4   | EXPXRDRT   |                        |
| 60      | (3C) | UNSIGNED  | 3   | EXPXOCC    |                        |
| 63      | (3F) | UNSIGNED  | 1   | EXPROPR#   |                        |
| 64      | (40) | CHARACTER | 1   | EXPFLAGS   |                        |
| 65      | (41) | CHARACTER | 1   | EXPCP15    | SET TO Y IF FROM DCPC2 |

| Offsets |      |           |     |            |                                |
|---------|------|-----------|-----|------------|--------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                    |
| 36      | (24) | STRUCTURE | 30  | EXPTYPEI   | PI=OPINFO RETRIEVAL INITIATION |
| 36      | (24) | UNSIGNED  | 2   | EXPIOPR#   | OPERATION NUMBER               |
| 38      | (26) | CHARACTER | 8   | EXPIUSER   | TSO USERID                     |
| 46      | (2E) | CHARACTER | 4   | EXPIWS     | WORKSTATION NAME               |
| 50      | (32) | CHARACTER | 8   | EXPIJNM    | JOBNAME                        |
| 58      | (3A) | CHARACTER | 8   | EXPIJID    | JOB ID                         |

| Offsets |      |           |     |            |                               |
|---------|------|-----------|-----|------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                   |
| 36      | (24) | STRUCTURE | 30  | EXPTYPECI  | PC=OPINFO RETRIEVAL INIT CP15 |
| 36      | (24) | UNSIGNED  | 2   | EXPPCIOPR# | OPERATION NUMBER              |



| Offsets |      |           |     |            |                  |
|---------|------|-----------|-----|------------|------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description      |
| 38      | (26) | CHARACTER | 8   | EXPCIUSER  | TSO USERID       |
| 46      | (2E) | CHARACTER | 4   | EXPCIWS    | WORKSTATION NAME |
| 50      | (32) | CHARACTER | 8   | EXPCIJNM   | JOBNAME          |
| 58      | (3A) | CHARACTER | 8   | EXPCIJID   | JOB ID           |

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 36      | (24) | STRUCTURE | 24  | EXPTYPE0   | P0=OPINFO RETRIEVAL STARTED |
| 36      | (24) | UNSIGNED  | 2   | EXP0OPR#   | OPERATION NUMBER            |
| 38      | (26) | CHARACTER | 8   | EXP0JNM    | JOBNAME                     |
| 46      | (2E) | CHARACTER | 8   | EXP0JID    | JOB ID                      |
| 54      | (36) | CHARACTER | 6   | *          | FREE                        |

| Offsets |      |           |     |            |                                                                                           |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                               |
| 36      | (24) | STRUCTURE | 30  | EXPTYPE2   | P2=OPINFO RETRIEVAL ENDED                                                                 |
| 36      | (24) | UNSIGNED  | 2   | EXP2OPR#   | OPERATION NUMBER                                                                          |
| 38      | (26) | CHARACTER | 1   | EXP2STAT   | FINAL RESULT OF JOBLLOG RETRIEVAL:<br>C=COMPLETED NORMALLY<br>E=PROCESSING ENDED IN ERROR |
| 39      | (27) | CHARACTER | 1   | EXP2XST    | BLANK=DEFAULT VALUE                                                                       |
| 40      | (28) | CHARACTER | 8   | EXP2USER   | USERID TO BE NOTIFIED                                                                     |
| 48      | (30) | CHARACTER | 8   | EXP2JNM    | JOBNAME                                                                                   |
| 56      | (38) |           | 8   | EXP2JID    | JOB ID                                                                                    |
| 64      | (40) | CHARACTER | 1   | EXP2FLAGS  | FLAGS FROM ARC DQE                                                                        |
|         |      |           |     | EXP2FROMAR | OPI FROM AR TASK                                                                          |
|         |      |           |     | *          |                                                                                           |
| 65      | (41) | CHARACTER | 1   | *          | RESERVED                                                                                  |

| Offsets |      |           |     |               |                                                                                          |
|---------|------|-----------|-----|---------------|------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                              |
| 36      | (24) | STRUCTURE | 30  | EXPTYPEQ      | PLR/PCR=INIT APPLY LOGIC/CLEAN UP                                                        |
| 36      | (24) | UNSIGNED  | 2   | EXPROPR#      | OPERATION NUMBER                                                                         |
| 38      | (26) | CHARACTER | 8   | EXPRJNM       | JOBNAME                                                                                  |
| 46      | (2E) | CHARACTER | 8   | EXPRJID       | JOB ID (ONLY NUMERIC PART)                                                               |
| 54      | (36) | CHARACTER | 1   | *             | FREE                                                                                     |
| 55      | (37) | CHARACTER | 1   | EXPRDIA       | CLEAN UP FROM DIALOG: Y=CLEAN UP IS PRESENT N=CLEAN UP NOT PRESENT BLANK=NOT FROM DIALOG |
| 56      | (38) | BITSTRING | 1   | EXPRFLAG      | EXPANDED JCL REALLY USED                                                                 |
|         |      |           |     | EXPRESJCLUSED | EXPANDED JCL USED                                                                        |
|         |      |           |     | *             | FREE                                                                                     |
| 57      | (39) | CHARACTER | 1   | *             | RESERVED                                                                                 |
| 58      | (3A) | CHARACTER | 8   | EXPRUSER      | TSO USER                                                                                 |

| Offsets |      |           |     |              |                                         |
|---------|------|-----------|-----|--------------|-----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                             |
| 36      | (24) | STRUCTURE | 30  | EXPTPCNF     | PLR/PCR=INIT APPLY LOGIC/CLEAN UP ENDED |
| 36      | (24) | UNSIGNED  | 2   | EXPCOPR#     | OPERATION NUMBER                        |
| 38      | (26) | CHARACTER | 4   | EXPCGSTOK    | GS REQUEST TOKEN                        |
| 42      | (2A) | CHARACTER | 8   | EXPCJNM      | JOBNAME                                 |
| 50      | (32) | CHARACTER | 8   | EXPCJID      | JOB ID                                  |
| 58      | (3A) | CHARACTER | 1   | EXPCSTAT     | C=COMPLETED E=ERROR                     |
| 59      | (3B) | CHARACTER | 1   | EXPCXST      | EXTENDED STATUS                         |
| 60      | (3C) | ADDRESS   | 4   | EXPCJCL      | POINTER TO JCL FOR DOA                  |
| 64      | (40) | BITSTRING | 1   | EXPCFLAG     | EXPANDED JCL REALLY USED                |
|         |      |           |     | EXPCXJCLUSED |                                         |
|         |      |           |     | *            | FREE                                    |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 65      | (41) | CHARACTER | 1   | *          | RESERVED    |

| Offsets |      |           |     |            |                                                 |
|---------|------|-----------|-----|------------|-------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                     |
| 36      | (24) | STRUCTURE | 30  | EXPTYPEC2  | PC2=MERGE FOR CLEAN UP OPERATION                |
| 36      | (24) | UNSIGNED  | 2   | EXPC2OPR#  | OPERATION NUMBER                                |
| 38      | (26) | CHARACTER | 4   | EXPC2GSTOK | GS REQUEST TOKEN                                |
| 42      | (2A) | CHARACTER | 8   | EXPC2JNM   | JOBNAME                                         |
| 50      | (32) | CHARACTER | 8   | EXPC2JID   | JOB ID                                          |
| 58      | (3A) | CHARACTER | 1   | EXPC2OSTA  | JOBLOG RETRIEVAL STATUS:<br>C=COMPLETED E=ERROR |
| 59      | (3B) | CHARACTER | 1   | EXPC2STAT  | CLEAN UP STATUS: C=COMPLETED<br>E=ERROR         |
| 60      | (3C) | CHARACTER | 1   | EXPC2XST   | EXTENDED STATUS                                 |
| 61      | (3D) | CHARACTER | 1   | EXPC2FLAGS | FLAGS FROM ARC DQE                              |
| 62      | (3E) | CHARACTER | 4   | *          | RESERVED                                        |

## Cross reference

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| EXP            | 0          |           | 1     |
| EXPADID        | 4          |           | 2     |
| EXPCALLER      | 3          |           | 2     |
| EXPCEXPJCLOSED | 40         | 80        | 3     |
| EXPCGSTOK      | 26         |           | 2     |
| EXPCIJID       | 3A         |           | 2     |
| EXPCIJNM       | 32         |           | 2     |
| EXPCIOPR#      | 24         |           | 2     |
| EXPCIUSER      | 26         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| EXPCIWS      | 2E         |           | 2     |
| EXPCJCL      | 3C         |           | 2     |
| EXPCJID      | 32         |           | 2     |
| EXPCJNM      | 2A         |           | 2     |
| EXPCOPR#     | 24         |           | 2     |
| EXPCSTAT     | 3A         |           | 2     |
| EXPCXST      | 3B         |           | 2     |
| EXPC2FLAGS   | 3D         |           | 2     |
| EXPC2GSTOK   | 26         |           | 2     |
| EXPC2JID     | 32         |           | 2     |
| EXPC2JNM     | 2A         |           | 2     |
| EXPC2OPR#    | 24         |           | 2     |
| EXPC2OSTA    | 3A         |           | 2     |
| EXPC2STAT    | 3B         |           | 2     |
| EXPC2XST     | 3C         |           | 2     |
| EXPDCP16     | 24         |           | 2     |
| EXPDEST      | 1C         |           | 2     |
| EXPEVTYP     | 0          |           | 2     |
| EXPGMTOF     | 42         |           | 2     |
| EXPID        | 4C         |           | 2     |
| EXPIJID      | 3A         |           | 2     |
| EXPIJNM      | 32         |           | 2     |
| EXPIOPR#     | 24         |           | 2     |
| EXPIUSER     | 26         |           | 2     |
| EXPIWS       | 2E         |           | 2     |
| EXPOCCTOK    | 14         |           | 2     |
| EXPRDIA      | 37         |           | 2     |
| EXPXPJCLUDED | 38         | 80        | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXPRFLAG   | 38         |           | 2     |
| EXPRJID    | 2E         |           | 2     |
| EXPRJNM    | 26         |           | 2     |
| EXPROPR#   | 24         |           | 2     |
| EXPRUSER   | 3A         |           | 2     |
| EXPSUBT    | 2          |           | 2     |
| EXPTDATE   | 44         |           | 3     |
| EXPTIMES   | 44         |           | 2     |
| EXPTTIME   | 48         |           | 3     |
| EXPTYPECNF | 24         |           | 1     |
| EXPTYPEC2  | 24         |           | 1     |
| EXPTYPE    | 1          |           | 2     |
| EXPTYPECI  | 24         |           | 1     |
| EXPTYPEED  | 24         |           | 1     |
| EXPTYPEEI  | 24         |           | 1     |
| EXPTYPES   | 24         |           | 2     |
| EXPTYPEX   | 24         |           | 1     |
| EXPTYPE0   | 24         |           | 1     |
| EXPTYPE2   | 24         |           | 1     |
| EXPTYPEREQ | 24         |           | 1     |
| EXPXCP15   | 41         |           | 2     |
| EXPXFLAGS  | 40         |           | 2     |
| EXPXJID    | 2C         |           | 2     |
| EXPXJNM    | 24         |           | 2     |
| EXPXOCC    | 3C         |           | 2     |
| EXPXOPR#   | 3F         |           | 2     |
| EXPXRDRD   | 34         |           | 2     |
| EXPXRDRT   | 38         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXP0JID    | 2E         |           | 2     |
| EXP0JNM    | 26         |           | 2     |
| EXP0OPR#   | 24         |           | 2     |
| EXP2FLAGS  | 40         |           | 2     |
| EXP2FROMAR | 40         | 80        | 3     |
| EXP2JID    | 38         |           | 2     |
| EXP2JNM    | 30         |           | 2     |
| EXP2OPR#   | 24         |           | 2     |
| EXP2STAT   | 26         |           | 2     |
| EXP2USER   | 28         |           | 2     |
| EXP2XST    | 27         |           | 2     |

## EXR - exit record

### Example

Name : DCLEXR

Function:

This segment declares an exit record. Exit records are built by SMF and JES exits, passed to

The event writer via CSA buffers, and are written to an event data set as part of an event record

by the event writer.

| Offsets |     |           |     |            |                            |
|---------|-----|-----------|-----|------------|----------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                |
| 0       | (0) | STRUCTURE | 80  | EXR        | exit record                |
| 0       | (0) | CHARACTER | 2   | EXRTYPE    | record type                |
| 0       | (0) | CHARACTER | 1   | EXRSYST    | system type A B            |
| 1       | (1) | CHARACTER | 1   | EXREVTYP   | event type 1 2 3 4 5 6     |
| 2       | (2) | CHARACTER | 1   | EXRSTYPE   | event subtype (only type3) |
| 3       | (3) | BITSTRING | 1   | EXRFLAGS   | exit flags                 |
|         |     | 1... ..   |     | EXRRETRY   | retry release command      |
|         |     | .1.. ..   |     | EXROPCHO   | this job is in hold        |

| Offsets |      |            |     |            |                                                          |
|---------|------|------------|-----|------------|----------------------------------------------------------|
| Dec     | Hex  | Type       | Len | Name (Dim) | Description                                              |
|         |      | ...1. .... |     | EXROHELD   | job was held by opc                                      |
|         |      | ...1. .... |     | EXRJKill   | job killed by jes in rdr                                 |
|         |      | .... 1...  |     | EXRJCCEC   | error code from jcc                                      |
|         |      | .... .1..  |     | EXRJCCCH   | checked by jcc                                           |
|         |      | .... ..1.  |     | EXRJCCER   | error in jcc                                             |
|         |      | .... ...1  |     | EXRRLAST   | retcode(last) active                                     |
| 4       | (4)  | BITSTRING  | 1   | EXRTERMF   | termination flags                                        |
|         |      | 1... ....  |     | EXRJCSET   | exrjcout is valid                                        |
|         |      | .1.. ....  |     | EXRJCOUT   | job has jcc sysout                                       |
|         |      | ..1. ....  |     | EXRDISCR   | discrepancy msg                                          |
|         |      | ...1. .... |     | EXRMCHLD   | 1= msgclass is held                                      |
|         |      | .... 1...  |     | EXRCMREQ   | 1= requeue msg class                                     |
|         |      | .... .1..  |     | EXREXTS    | 1= external submission (NMM)                             |
|         |      | .... ..1.  |     | EXRJBTAB   | 0=normal, 1=abend (job)                                  |
|         |      | .... ..1.  |     | EXRABEND   | 0=normal, 1=abend (step)                                 |
|         |      | .... ...1  |     | EXRFLUSH   | 0=normal, 1=flushed step                                 |
| 5       | (5)  | BITSTRING  | 1   | EXRERROR   | job error switch lcterror                                |
|         |      | 1... ....  |     | EXRFAIL    | job failed                                               |
|         |      | .1.. ....  |     | EXRJQA     | ON= is a JQA                                             |
|         |      | ..1. ....  |     | EXRZ2LEVEL |                                                          |
|         |      | ...1. .... |     | EXRR4LEVEL |                                                          |
|         |      | .... 1...  |     | EXRSINFO   | 1= step awareness                                        |
|         |      | .... .1..  |     | EXRCFAL    | job failed on cond codes                                 |
|         |      | .... ..1.  |     | EXRJCJOB   | JCJOB processed ok 3 exrlastfl bit(1), last step flushed |
| 6       | (6)  | SIGNED     | 2   | EXRGMTOF   | gmt offset in minutes                                    |
| 8       | (8)  | CHARACTER  | 8   | EXRJOBNAME | job name                                                 |
| 16      | (10) | CHARACTER  | 8   | EXRJOBID   | job number                                               |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 24      | (18) | CHARACTER | 8   | EXRCREAT   | event creation time       |
| 24      | (18) | SIGNED    | 4   | EXRDATE    | date format (00yydddf)    |
| 28      | (1C) | SIGNED    | 4   | EXRTIME    | time format (secs*100)    |
| 32      | (20) | CHARACTER | 8   | EXRJSRDR   | jes reader date & time    |
| 32      | (20) | SIGNED    | 4   | EXRRDATE   | date format (00yydddf)    |
| 36      | (24) | SIGNED    | 4   | EXRRTIME   | time format (secs*100)    |
| 40      | (28) | SIGNED    | 4   | EXRSDATE   | operation start date      |
| 44      | (2C) | SIGNED    | 4   | EXRSTIME   | operation start time      |
| 48      | (30) | SIGNED    | 4   | EXREDATE   | operation end date        |
| 52      | (34) | SIGNED    | 4   | EXRETIME   | operation end time        |
| 52      | (34) | SIGNED    | 4   | EXRORGID   | nje origin job number     |
| 56      | (38) | CHARACTER | 8   | EXRSTEPN   | job step name             |
| 56      | (38) | CHARACTER | 8   | EXRONJE    | name of orig nje nod      |
| 56      | (38) | CHARACTER | 1   | EXRCLASS   | printout class            |
| 57      | (39) | CHARACTER | 1   | *          | reserved                  |
| 58      | (3A) | SIGNED    | 2   | EXRASID    | job asid                  |
| 60      | (3C) | SIGNED    | 4   | EXREXEID   | NJE execution jobn        |
| 64      | (40) | CHARACTER | 8   | EXRPSTEP   | procedure step name       |
| 64      | (40) | CHARACTER | 8   | EXRNNJE    | thisnext nje node         |
| 64      | (40) | CHARACTER | 8   | EXRFORM    | form number               |
| 72      | (48) | SIGNED    | 2   | EXRCODE    | completioncondition code  |
| 74      | (4A) | CHARACTER | 1   | EXRINDIC   | status indicators         |
|         |      | 1... .... |     | EXRJESV4   | jes sp4 or above13P       |
|         |      | .1.. .... |     | EXRSPUN    | spun off ds rcd           |
|         |      | ..1. .... |     | EXRTERM    | oper terminated datagroup |
|         |      | ...1 .... |     | EXRINTER   | oper interrupted --       |
|         |      | .... 1... |     | EXRRSTRT   | oper restarted --         |



| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
|         |      | .... .1.. |     | EXRNDEST   | not final fsysmsgs 3P |
|         |      | .... ..1. |     | EXRNODS4   | no sysmsgs found 3P   |
|         |      | .... ...1 |     | EXRSUSPD   | suspended             |
| 75      | (4B) | UNSIGNED  | 1   | EXRSTPNR   | step number           |
| 75      | (4B) | BITSTRING | 1   | EXRPURGE   | job purge bits        |
|         |      | 111. .... |     | *          | not used              |
|         |      | ...1 .... |     | EXRSDEP    | SDEP filter used      |
|         |      | .... 1... |     | EXRLASTAB  | last step abended     |
|         |      | .... .1.. |     | EXRSTALL   | stepevents(all)       |
|         |      | .... ..1. |     | EXRSTNZ    | stepevents(no) flag   |
|         |      | .... ...1 |     | EXROPCAN   | cancelled by oper     |
| 76      | (4C) | CHARACTER | 4   | EXROPCID   | opc identifier        |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXR      | 0          |           | 1     |
| EXRABEND | 4          | 02        | 4     |
| EXRASID  | 3A         |           | 4     |
| EXRCFAL  | 5          | 04        | 3     |
| EXRCLASS | 38         |           | 4     |
| EXRCMREQ | 4          | 08        | 3     |
| EXRCODE  | 48         |           | 2     |
| EXRCREAT | 18         |           | 2     |
| EXRDATE  | 18         |           | 3     |
| EXRDISCR | 4          | 20        | 3     |
| EXREDATE | 30         |           | 2     |
| EXRERROR | 5          |           | 2     |
| EXRETIME | 34         |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| EXREVTYP  | 1          |           | 3     |
| EXREXEID  | 3C         |           | 4     |
| EXREXTS   | 4          | 04        | 3     |
| EXRFAIL   | 5          | 80        | 3     |
| EXRFLAGS  | 3          |           | 2     |
| EXRFLUSH  | 4          | 01        | 3     |
| EXRFORM   | 40         |           | 4     |
| EXRGMTOF  | 6          |           | 2     |
| EXRINDIC  | 4A         |           | 2     |
| EXRINTER  | 4A         | 10        | 3     |
| EXRJBTAB  | 4          | 02        | 3     |
| EXRJCCCH  | 3          | 04        | 3     |
| EXRJCCEC  | 3          | 08        | 3     |
| EXRJCCER  | 3          | 02        | 3     |
| EXRJCJOB  | 5          | 02        | 3     |
| EXRJCOUT  | 4          | 40        | 3     |
| EXRJCSET  | 4          | 80        | 3     |
| EXRJESV4  | 4A         | 80        | 3     |
| EXRJKILL  | 3          | 10        | 3     |
| EXRJOBID  | 10         |           | 2     |
| EXRJOBN   | 8          |           | 2     |
| EXRJQA    | 5          | 40        | 3     |
| EXRJSRDR  | 20         |           | 2     |
| EXRLASTAB | 4B         | 08        | 4     |
| EXRMCHLD  | 4          | 10        | 3     |
| EXRNDEST  | 4A         | 04        | 3     |
| EXRNNJE   | 40         |           | 3     |
| EXRNODS4  | 4A         | 02        | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXROHELD   | 3          | 20        | 3     |
| EXRONJE    | 38         |           | 3     |
| EXROPCAN   | 4B         | 01        | 4     |
| EXROPCHO   | 3          | 40        | 3     |
| EXROPCID   | 4C         |           | 2     |
| EXRORGID   | 34         |           | 3     |
| EXRPSTEP   | 40         |           | 2     |
| EXRPURGE   | 4B         |           | 3     |
| EXRRDATE   | 20         |           | 3     |
| EXRRETRY   | 3          | 80        | 3     |
| EXRRLAST   | 3          | 01        | 3     |
| EXRRSTRT   | 4A         | 08        | 3     |
| EXRRTIME   | 24         |           | 3     |
| EXRR4LEVEL | 5          | 10        | 3     |
| EXRSDATE   | 28         |           | 2     |
| EXRSDEP    | 4B         | 10        | 4     |
| EXRSINFO   | 5          | 08        | 3     |
| EXRSPUN    | 4A         | 40        | 3     |
| EXRSTALL   | 4B         | 04        | 4     |
| EXRSTEPN   | 38         |           | 2     |
| EXRSTIME   | 2C         |           | 2     |
| EXRSTNZ    | 4B         | 02        | 4     |
| EXRSTPNR   | 4B         |           | 2     |
| EXRSTYPE   | 2          |           | 2     |
| EXRSUSPD   | 4A         | 01        | 3     |
| EXRSYST    | 0          |           | 3     |
| EXRTERM    | 4A         | 20        | 3     |
| EXRTERMF   | 4          |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXRTIME    | 1C         |           | 3     |
| EXRTYPE    | 0          |           | 2     |
| EXRZ2LEVEL | 5          | 20        | 3     |

## EXS - Resource event

### Example

Name : DCLEXS

Function:

This segment declares a special resource change event record. These event records are built by the EQQEVPGM and EQQEVCMMD programs, are passed to the event writer via csa buffers, and are written to an event data set as part of an event record by the event writer. These events can also be generated from a call to EQQUSIN, ESSUSINS, or from the API.

| Offsets |      |           |     |            |                                                                                               |
|---------|------|-----------|-----|------------|-----------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                   |
| 0       | (0)  | STRUCTURE | 80  | EXS        | SPECIAL RESOURCE EVENT                                                                        |
| 0       | (0)  | CHARACTER | 1   | EXSTYPE    | 'S' FOR SPECIAL RESOURCE EVENT                                                                |
| 1       | (1)  | CHARACTER | 1   | EXSAVAIL   | GLOBAL AVAILABILITY SETTING<br><br>Y=AVAILABLE,<br>N=NOT AVAILABLE<br>R=RESET<br>'BLANK'=KEEP |
| 2       | (2)  | CHARACTER | 1   | EXSCREATE  | CREATE IF NEW, Y N                                                                            |
| 3       | (3)  | CHARACTER | 1   | EXSSUBTYPE | NOT USED                                                                                      |
| 4       | (4)  | UNSIGNED  | 1   | EXSGDGL    | LENGTH OF GDG DS ROOT                                                                         |
| 5       | (5)  | CHARACTER | 1   | EXSR3DEF   | DEFAULT SET IN R3                                                                             |
| 6       | (6)  | SIGNED    | 2   | EXSGMTOF   | GMT OFFSET (MINUTES)                                                                          |
| 8       | (8)  | SIGNED    | 4   | EXSCDAT    | CREATION DATE (00YYDDDF)                                                                      |
| 12      | (C)  | SIGNED    | 4   | EXSCTIM    | CREATION TIME (SEC*100)                                                                       |
| 16      | (10) | SIGNED    | 4   | EXSEDAT    | EVENT DATE (00YYDDDF)                                                                         |
| 20      | (14) | SIGNED    | 4   | EXSETIM    | EVENT TIME (SEC*100)                                                                          |

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 24      | (18) | CHARACTER | 8   | EXSUSER    | NAME OF UPDATING USER |
| 32      | (20) | CHARACTER | 44  | EXSNAME    | RESOURCE NAME         |
| 76      | (4C) | CHARACTER | 4   | XSOPCID    | EVENT ID 'EQQX'       |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXS        | 0          |           | 1     |
| EXSAVAIL   | 1          |           | 2     |
| EXSCDAT    | 8          |           | 2     |
| EXSCREATE  | 2          |           | 2     |
| EXSCTIM    | C          |           | 2     |
| EXSEDAT    | 10         |           | 2     |
| EXSETIM    | 14         |           | 2     |
| EXSGDGL    | 4          |           | 2     |
| EXSGMTOF   | 6          |           | 2     |
| EXSNAME    | 20         |           | 2     |
| XSOPCID    | 4C         |           | 2     |
| EXSR3DEF   | 5          |           | 2     |
| EXSSUBTYPE | 3          |           | 2     |
| EXSTYPE    | 0          |           | 2     |
| EXSUSER    | 18         |           | 2     |

## EXSA - Resource event extension

### Example

Name : DCLEXSA

Function:

Defines additional data for a resource event.

| Offsets |      |           |     |               |                                                     |
|---------|------|-----------|-----|---------------|-----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                         |
| 0       | (0)  | STRUCTURE | 88  | EXSA          | RES EVENT ADDENDUM                                  |
| 0       | (0)  | CHARACTER | 4   | EXSA_ID       | DESCRIPTOR - EXSA                                   |
| 4       | (4)  | CHARACTER | 2   | EXSA_VER      | BLOCK MAPPING VERSION                               |
| 6       | (6)  | CHARACTER | 44  | EXSANAME      | RESOURCE NAME                                       |
| 50      | (32) | CHARACTER | 4   | EXSAOPCID     | OPCID                                               |
| 54      | (36) | BITSTRING | 1   | EXSAFLG1      | FLAG BYTE 1                                         |
|         |      | 1... ..   |     | EXSARODM      | RODM EVENT                                          |
|         |      | .1... ..  |     | EXSADEVS      | DEVIATION SET                                       |
|         |      | ..1. .... |     | EXSAQUAS      | QUANTITY SET                                        |
|         |      | ...1 .... |     | EXSADEV       | DEVIATION RESET                                     |
|         |      | .... 1... |     | EXSAQUAR      | QUANTITY RESET                                      |
|         |      | .... .1.. |     | EXSARODMLOST  | RODM LOST                                           |
|         |      | .... ..1. |     | EXSALIFESPANB | LIFESPAN SPECIFIED                                  |
|         |      | .... ...1 |     | *             | RESERVED                                            |
| 55      | (37) | CHARACTER | 1   | EXSATYPE      | UPDATE TYPE. A, Q OR D UPD TYPE<br>REQD FOR RODM EV |
| 56      | (38) | SIGNED    | 4   | EXSAQUANT     | QUANTITY                                            |
| 60      | (3C) | SIGNED    | 4   | EXSADEV       | DEVIATION                                           |
| 64      | (40) | SIGNED    | 4   | *(2)          | RESERVED                                            |
| 72      | (48) | CHARACTER | 1   | EXSASUBE      |                                                     |
| 73      | (49) | CHARACTER | 1   | EXSALIFESPAN  | Y=YES<br>N=NO<br>R=RESET                            |
| 76      | (4C) | SIGNED    | 4   | EXSALIFETIME  | MINUTES                                             |
| 80      | (50) | CHARACTER | 8   | EXSAJOB       | JOB NAME FROM DS TRIGGER                            |
| 88      | (58) | CHARACTER | 2   | *             | RESERVED                                            |

## Cross reference

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| EXSA          | 0          |           | 1     |
| EXSA_ID       | 0          |           | 2     |
| EXSA_VER      | 4          |           | 2     |
| EXSADEV       | 3C         |           | 2     |
| EXSADEVR      | 36         | 10        | 3     |
| EXSADEVS      | 36         | 40        | 3     |
| EXSAFLG1      | 36         |           | 2     |
| EXSAJOB       | 50         |           | 2     |
| EXSALIFESPAN  | 49         |           | 2     |
| EXSALIFESPANB | 36         | 02        | 3     |
| EXSALIFETIME  | 4C         |           | 2     |
| EXSANAME      | 6          |           | 2     |
| EXSAOPCID     | 32         |           | 2     |
| EXSAQUANT     | 38         |           | 2     |
| EXSAQUAR      | 36         | 08        | 3     |
| EXSAQUAS      | 36         | 20        | 3     |
| EXSARODM      | 36         | 80        | 3     |
| EXSARODMLOST  | 36         | 04        | 3     |
| EXSASUBE      | 48         |           | 2     |
| EXSATYPE      | 37         |           | 2     |

## EXT - Ready to receive event

## Example

Name : DCLEXT

Function:

This segment declares a SET TIME (GMTOFFSET) event record. These event records are built by the EQQEVPGM and EQQEVCMDB programs, passed to the Event Writer through CSA buffers, and written to an event data set as part of an event record by the Event Writer.

| Offsets |      |           |     |            |                                 |
|---------|------|-----------|-----|------------|---------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                     |
| 0       | (0)  | STRUCTURE | 80  | EXT        | READY TO RECEIVE EVENT          |
| 0       | (0)  | CHARACTER | 1   | EXTETYPE   | EVENT TYPE = T                  |
| 1       | (1)  | CHARACTER | 3   | *          | RESERVED                        |
| 4       | (4)  | CHARACTER | 4   | EXTSID     | SYSTEM IDENTIFICATION           |
| 8       | (8)  | SIGNED    | 4   | EXTGMTOF   | GMT OFFSET IN MINUTES           |
| 12      | (C)  | SIGNED    | 4   | EXTCDAT    | CREATION DATE FORMAT (00YYDDDF) |
| 16      | (10) | SIGNED    | 4   | EXTCTIM    | CREATION TIME FORMAT (SEC*100)  |
| 20      | (14) | SIGNED    | 4   | EXTEDAT    | EVENT DATE FORMAT (00YYDDDF)    |
| 24      | (18) | SIGNED    | 4   | EXTETIM    | EVENT TIME FORMAT (SEC*100)     |
| 28      | (1C) | SIGNED    | 4   | EXTGMTSEC  | GMT OFFSET                      |
| 32      | (20) | CHARACTER | 4   | EXTENF     | T TYPE ENF                      |
| 36      | (24) | UNSIGNED  | 1   | EXTENFB1   | ENF 53 BYTE 1                   |
| 37      | (25) | UNSIGNED  | 1   | EXTENFB2   | ENF 53 BYTE 2                   |
| 38      | (26) | UNSIGNED  | 1   | EXTENFB3   | ENF 53 BYTE 3                   |
| 39      | (27) | CHARACTER | 1   | EXTRCHA    | REAL CHANGE Y/M                 |
| 40      | (28) | CHARACTER | 48  | *          | RESERVED                        |
| 76      | (4C) | CHARACTER | 4   | EXTOPCID   | EVENT ID 'EQQX'                 |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| EXT       | 0          |           | 1     |
| EXTCDAT   | C          |           | 2     |
| EXTCTIM   | 10         |           | 2     |
| EXTEDAT   | 14         |           | 2     |
| EXTETIM   | 18         |           | 2     |
| EXTGMTOF  | 8          |           | 2     |
| EXTGMTSEC | 1C         |           | 2     |
| EXTOPCID  | 4C         |           | 2     |



| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| EXTSID  | 4          |           | 2     |
| EXTTYPE | 0          |           | 2     |

## EXU - User event record

### Example

Name : DCLEXU

Function:

This segment declares a user exit event record. User event records are built by OPSTAT, EQQUSIN, EQQUSINT, or the API and passed to the event writer via CSA buffers, and are written to an event data set as part of an event record by the event writer.

| Offsets |      |           |     |            |                                              |
|---------|------|-----------|-----|------------|----------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                  |
| 0       | (0)  | STRUCTURE | 80  | EXU        | USER EVENT RECORD                            |
| 0       | (0)  | CHARACTER | 1   | EXUSYST    | 'G' FOR GENERAL WS EVENT                     |
| 1       | (1)  | CHARACTER | 1   | EXUTYPE    | 'S'=START,'C'=COMPLETE OR 'E'=ENDED IN ERROR |
| 2       | (2)  | CHARACTER | 1   | EXUCLASS   | SYSOUT CLASS                                 |
| 3       | (3)  | BITSTRING | 1   | EXUFLAGS   | DH KC                                        |
|         |      | 1... ..   |     | EXUSORTIA  | ON = SORT FOR IA DHKA                        |
|         |      | .111 1111 |     | *          | DHKA                                         |
| 4       | (4)  | CHARACTER | 8   | EXUJOBN    | JOB NAME                                     |
| 12      | (C)  | CHARACTER | 16  | EXUAPPL    | APPLICATION NAME                             |
| 28      | (1C) | CHARACTER | 4   | EXUWSN     | WORK STATION NAME                            |
| 32      | (20) | SIGNED    | 4   | EXUCDAT    | CREATION DATE (00YYDDDF)                     |
| 36      | (24) | SIGNED    | 4   | EXUCTIM    | CREATION TIME (SEC*100)                      |
| 40      | (28) | SIGNED    | 4   | EXUEDAT    | EVENT DATE (00YYDDDF)                        |
| 44      | (2C) | SIGNED    | 4   | EXUETIM    | EVENT TIME (SEC*100)                         |
| 44      | (2C) | SIGNED    | 2   | EXUGMTOA   | GMT OFFSET FOR APP                           |
| 46      | (2E) | SIGNED    | 2   | *          | RESERVED                                     |

| Offsets |      |           |     |            |                                                 |
|---------|------|-----------|-----|------------|-------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                     |
| 48      | (30) | SIGNED    | 2   | EXUOPNO    | OPERATION NUMBER                                |
| 50      | (32) | CHARACTER | 10  | EXUINP     | APPL INP ARR (YYMMDDHHMM)                       |
| 60      | (3C) | SIGNED    | 2   | EXUDUR     | DURATION (MINUTES)                              |
| 62      | (3E) | SIGNED    | 2   | EXUGMTOF   | GMT OFFSET (MINUTES) ONLY USED IF EXUTYPE = 'C' |
| 64      | (40) | CHARACTER | 4   | EXUERR     | ERROR CODE. ONLY USED IF EXUTYPE = 'E'          |
| 68      | (44) | CHARACTER | 8   | EXUFORM    | FORM NUMBER                                     |
| 76      | (4C) | CHARACTER | 4   | EXUOPCID   | event id 'EQQx'                                 |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXU      | 0          |           | 1     |
| EXUAPPL  | C          |           | 2     |
| EXUCDAT  | 20         |           | 2     |
| EXUCLASS | 2          |           | 2     |
| EXUCTIM  | 24         |           | 2     |
| EXUDUR   | 3C         |           | 2     |
| EXUEDAT  | 28         |           | 2     |
| EXUERR   | 40         |           | 2     |
| EXUETIM  | 2C         |           | 2     |
| EXUFLAGS | 3          |           | 2     |
| EXUFORM  | 44         |           | 2     |
| EXUGMTOA | 2C         |           | 3     |
| EXUGMTOF | 3E         |           | 2     |
| EXUINP   | 32         |           | 2     |
| EXUJOBN  | 4          |           | 2     |
| EXUOPCID | 4C         |           | 2     |
| EXUOPNO  | 30         |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| EXUSORTIA | 3          | 80        | 3     |
| EXUSYST   | 0          |           | 2     |
| EXUTYPE   | 1          |           | 2     |
| EXUWSN    | 1C         |           | 2     |

## EXUA - User event addendum

### Example

Name : DCLEXUA

Function:

This segment declares a user event addendum record.

| Offsets |      |           |     |                |                       |
|---------|------|-----------|-----|----------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description           |
| 0       | (0)  | STRUCTURE | 72  | EXUA           | USER EVENT ADDENDUM   |
| 0       | (0)  | CHARACTER | 4   | EXUA_ID        | DESCRIPTOR - EXUA     |
| 4       | (4)  | CHARACTER | 2   | EXUA_VER       | BLOCK MAPPING VERSION |
| 6       | (6)  | CHARACTER | 10  | EXUAINP        | IA® (YYMMDDHHMM)      |
| 16      | (10) | SIGNED    | 2   | EXUADUR        | DURATION (MINUTES)    |
| 18      | (12) | SIGNED    | 2   | EXUAGMTOF      | GMT OFFSET (MINUTES)  |
| 20      | (14) | CHARACTER | 4   | EXUAERR        | ERROR CODE            |
| 24      | (18) | CHARACTER | 8   | EXUAFORM       | FORM NUMBER           |
| 32      | (20) | CHARACTER | 4   | EXUAOPCID      | SCHEDULER ID          |
| 36      | (24) | CHARACTER | 16  | EXUUDATA       | USERDATA              |
| 52      | (34) | CHARACTER | 1   | EXUAOPIN       | OPINFO COMMAND Y/N    |
| 53      | (35) | CHARACTER | 3   | *              | RESERVED              |
| 56      | (38) | CHARACTER | 8   | EXUATOKEN_FULL | OPERATION FULL TOKEN  |
| 56      | (38) | CHARACTER | 4   | EXUATOKEN_PRE  | PREFIX                |
| 60      | (3C) | UNSIGNED  | 4   | EXUATOKEN      | SCHEDULER TOKEN       |
| 64      | (40) | CHARACTER | 6   | EXUAJOBNBR     | JOB NUMBER            |
| 70      | (46) | CHARACTER | 2   | *              | RESERVED              |

## Cross reference

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| EXUA           | 0          |           | 1     |
| EXUA_ID        | 0          |           | 2     |
| EXUA_VER       | 4          |           | 2     |
| EXUADUR        | 10         |           | 2     |
| EXUAERR        | 14         |           | 2     |
| EXUAFORM       | 18         |           | 2     |
| EXUAGMTOF      | 12         |           | 2     |
| EXUAINP        | 6          |           | 2     |
| EXUAJOBNBR     | 40         |           | 2     |
| EXUAOPCID      | 20         |           | 2     |
| EXUAOPIN       | 34         |           | 2     |
| EXUATOKEN      | 3C         |           | 3     |
| EXUATOKEN_FULL | 38         |           | 2     |
| EXUATOKEN_PRE  | 38         |           | 3     |
| EXUUDATA       | 24         |           | 2     |

## EXV - Scheduling environment event

## Example

Name : DCLEXV

Function:

This segment declares a scheduling environment availability event.

It can be:

VS (single SE name available)

VM (multiple SE name available)

A buffer is associated with this event containing a list of SE names

VL (log event generated by the controller to track CP changes to VS/VM events)

| Offsets |     |           |     |            |                              |
|---------|-----|-----------|-----|------------|------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                  |
| 0       | (0) | STRUCTURE | 80  | EXV        | SCHEDULING ENVIRONMENT EVENT |

| Offsets |      |           |     |            |                                                                            |
|---------|------|-----------|-----|------------|----------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                |
| 0       | (0)  | CHARACTER | 1   | EXVTYP     | EVENT TYPE=V                                                               |
| 1       | (1)  | CHARACTER | 1   | EXVTTYPE   | SUBTYPE:<br>S=SINGLE SCHEDULING<br>EVENT<br>M=MULTIPLE SCHEDULING<br>EVENT |
| 2       | (2)  | CHARACTER | 2   | *          |                                                                            |
| 4       | (4)  | BITSTRING | 4   | EXVQUAL    | ENF EVENT QUALIFIER                                                        |
| 8       | (8)  | CHARACTER | 4   | EXVTRA     | ENFREQ MACRO TRACKER NAME<br>PARAMETER                                     |
| 12      | (C)  | UNSIGNED  | 4   | EXVEVCODE  | EVENT CODE (57 or 41)                                                      |
| 16      | (10) | CHARACTER | 14  | *          |                                                                            |
| 30      | (1E) | UNSIGNED  | 2   | EXVFLAGS   | FLAGS                                                                      |
| 30      | (1E) | BITSTRING | 1   | EXVFLAGS   |                                                                            |
|         |      |           |     | EXVSUTOP   | ON=EVENT GENERATED BY SUBMIT<br>TASK                                       |
|         |      |           |     | *          |                                                                            |
| 32      | (20) | CHARACTER | 30  | *          |                                                                            |
| 62      | (3E) | SIGNED    | 2   | EXVGMTOFF  | GMT OFFSET IN MINUTES                                                      |
| 64      | (40) | CHARACTER | 8   | EXVTIMES   | REQUEST TIME STAMP                                                         |
| 64      | (40) | SIGNED    | 4   | EXVTDAT    | DATE FORMAT (00YYDDDF)                                                     |
| 68      | (44) | SIGNED    | 4   | EXVTTIME   | TIME FORMAT (SECS*100)                                                     |
| 72      | (48) | CHARACTER | 4   | EXVSSNM    | ECHO SUBSYSTEM NAME                                                        |
| 76      | (4C) | CHARACTER | 4   | EXVID      | EVENT IDENTIFICATION 'EQQF'                                                |

### Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| EXV     | 0          |           | 1     |
| EXVDATA | 20         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXVEVCODE  | C          |           | 1     |
| EXVEVTYP   | 0          |           | 2     |
| EXVFLAGS   | 1E         |           | 2     |
| EXVGMTOFF  | 3E         |           | 2     |
| EXVID      | 4C         |           | 2     |
| EXVLEVM    | 2C         | 20        | 3     |
| EXVLEVS    | 2C         | 40        | 3     |
| EXVLFLAG   | 2C         |           | 2     |
| EXVLOCCTOK | 24         |           | 2     |
| EXVLOPNUM  | 22         |           | 2     |
| EXVLPLXID  | 20         |           | 2     |
| EXVLSCHE   | 2E         |           | 2     |
| EXVLXSTAT  | 2C         | 80        | 3     |
| EXVMNUM    | 24         |           | 2     |
| EXVMPLXID  | 20         |           | 2     |
| EXVQUAL    | 4          |           | 2     |
| EXVSPLXID  | 20         |           | 3     |
| EXVSSCHE   | 24         |           | 3     |
| EXVSSNM    | 48         |           | 2     |
| EXVSSYSNM  | 34         |           | 2     |
| EXVSUTOP   | 1E         | 80        | 3     |
| EXVTDAT    | 40         |           | 2     |
| EXVTIMES   | 40         |           | 1     |
| EXVTRA     | 8          |           | 1     |
| EXVTTIME   | 44         |           | 1     |
| EXVTYPE    | 1          |           | 2     |
| EXVTYPEL   | 20         |           | 2     |
| EXVTYPEM   | 20         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| EXVTYPES | 20         |           | 3     |

## EXW - Workstation status event

### Example

Name : DCLEXW

Function:

This segment declares a workstation status event record. These event records are built via the WSSTAT, EQQUSIN, EQQUSINW, or the API. They are passed to the event writer via CSA buffers, and written to an event data set as part of an event record by the event writer.

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 0       | (0)  | STRUCTURE | 80  | EXW        | WORKSTATION STATUS EVENT    |
| 0       | (0)  | CHARACTER | 1   | EXWTYPE    | 'W' FOR WSSTAT EVENT        |
| 1       | (1)  | CHARACTER | 8   | EXWUSER    | NAME OF UPDATING USER       |
| 9       | (9)  | CHARACTER | 8   | EXWDEST    | DESTINATION                 |
| 17      | (11) | CHARACTER | 4   | EXWWSN     | WORKSTATION NAME            |
| 21      | (15) | BITSTRING | 1   | EXWFLAGS   | FLAGS                       |
|         |      | 1... ..   |     | EXWTRK     | TRK GENERATED EVENT         |
|         |      | .111 1111 |     | *          | RESERVED                    |
| 22      | (16) | CHARACTER | 1   | EXWSTAT    | NEW STATUS                  |
| 23      | (17) | CHARACTER | 1   | EXWREROUT  | REROUTE INDICATOR           |
| 24      | (18) | CHARACTER | 1   | EXWSTOP    | STARTED OPERATION INDICATOR |
| 25      | (19) | CHARACTER | 4   | EXWALTWS   | ALTERNATE WORKSTATION NAME  |
| 29      | (1D) | CHARACTER | 3   | *          | RESERVED                    |
| 32      | (20) | SIGNED    | 4   | EXWC DAT   | CREATION DATE (00YYDDDF)    |
| 36      | (24) | SIGNED    | 4   | EXWCTIM    | CREATION TIME (SEC-100)     |
| 40      | (28) |           | 1   | EXWCMD     | CMD L/U/S/P                 |
| 41      | (29) | CHARACTER | 16  | EXWMGR     | DOMAIN MANAGER              |
| 57      | (39) | CHARACTER | 19  | *          | RESERVED                    |

| Offsets |      |           |     |            |                 |
|---------|------|-----------|-----|------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description     |
| 76      | (4C) | CHARACTER | 4   | EXWOPCID   | EVENT ID 'EQQX' |

| Offsets |      |           |     |               |                          |
|---------|------|-----------|-----|---------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description              |
| 0       | (0)  | STRUCTURE | 80  | EXX           | TRACKER EVENT RECORD     |
| 0       | (0)  | CHARACTER | 1   | EXXSYST       | 'X' TYPE EVENT           |
| 1       | (1)  | CHARACTER | 1   | EXXTYPE       | INDICATOR                |
| 2       | (2)  | CHARACTER | 1   | EXXSYSID      | INDICATOR                |
| 3       | (3)  | BITSTRING | 1   | EXXFLAG       | FLAGS                    |
|         |      | 1... ..   |     | EXXERRCC      | ERRC IN CHAR             |
|         |      | .111 1111 |     | *             | RESERVED                 |
| 4       | (4)  | CHARACTER | 4   | *             | RESERVED                 |
| 8       | (8)  | CHARACTER | 8   | EXXJOBNAME    | JOB NAME                 |
| 16      | (10) | CHARACTER | 5   | EXXJNUM       | JOB NUMBER               |
| 21      | (15) | CHARACTER | 3   | *             | RESERVED                 |
| 24      | (18) | SIGNED    | 4   | EXXCDAT       | CREATION DATE (00YYDDDF) |
| 28      | (1C) | SIGNED    | 4   | EXXCTIM       | CREATION TIME (SEC*100)  |
| 32      | (20) | SIGNED    | 2   | EXXGMTOF      | GMT OFFSET (MINUTES)     |
| 34      | (22) | CHARACTER | 2   | *             | RESERVED                 |
| 36      | (24) | SIGNED    | 4   | EXXERR        | ERROR CODE BIN FORM      |
| 40      | (28) | CHARACTER | 4   | EXXERRC       | ERROR CODE CHAR FORM     |
| 44      | (2C) | CHARACTER | 8   | EXXTOKEN_FULL | OPERATION FULL TOKEN     |
| 44      | (2C) | CHARACTER | 4   | EXXTOKEN_PRE  | PREFIX                   |
| 48      | (30) | UNSIGNED  | 4   | EXXTOKEN      | OPCTOKEN                 |
| 52      | (34) | CHARACTER | 7   | EXXAS4ERRC    | FULL AS400 ERROR CODE    |
| 59      | (3B) | CHARACTER | 17  | *             | RESERVED                 |
| 76      | (4C) | CHARACTER | 4   | EXXOPCID      | EVENT ID 'EQQX'          |



## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| EXW       | 0          |           | 1     |
| EXWALTWS  | 19         |           | 2     |
| EXWC DAT  | 20         |           | 2     |
| EXWCMD    | 20         |           | 2     |
| EXWCTIM   | 24         |           | 2     |
| EXWDEST   | 9          |           | 2     |
| EXWFLAGS  | 15         |           | 2     |
| EXWMGR    | 29         |           | 2     |
| EXWOPCID  | 4C         |           | 2     |
| EXWREROUT | 17         |           | 2     |
| EXWSTAT   | 16         |           | 2     |
| EXWSTOP   | 18         |           | 2     |
| EXWTRK    | 15         | 80        | 3     |
| EXWTYPE   | 0          |           | 2     |
| EXWUSER   | 1          |           | 2     |
| EXWWSN    | 11         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXX        | 0          |           | 1     |
| EXXAS4ERRC | 34         |           | 2     |
| EXXC DAT   | 18         |           | 2     |
| EXXCTIM    | 1C         |           | 2     |
| EXXERR     | 24         |           | 2     |
| EXXERRC    | 28         |           | 2     |
| EXXERRCC   | 3          | 80        | 3     |
| EXXFLAG    | 3          |           | 2     |
| EXXGMTOF   | 20         |           | 2     |
| EXXJNUM    | 10         |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| EXXJOB        | 8          |           | 2     |
| EXXOPCID      | 4C         |           | 2     |
| EXXSYSID      | 2          |           | 2     |
| EXXSYST       | 0          |           | 2     |
| EXXTOKEN      | 30         |           | 3     |
| EXXTOKEN_FULL | 2C         |           | 2     |
| EXXTOKEN_PRE  | 2C         |           | 3     |
| EXXTYPE       | 1          |           | 2     |

## EXX - Tracker agent event record

### Example

Name : DCLEX

Function:

This segment declares an event record from a tracker agent.

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 0       | (0)  | STRUCTURE | 80  | EXX        | TRACKER EVENT RECORD     |
| 0       | (0)  | CHARACTER | 1   | EXXSYST    | 'X' TYPE EVENT           |
| 1       | (1)  | CHARACTER | 1   | EXXTYPE    | INDICATOR                |
| 2       | (2)  | CHARACTER | 1   | EXXSYSID   | INDICATOR                |
| 3       | (3)  | BITSTRING | 1   | EXXFLAG    | FLAGS                    |
|         |      | 1... ..   |     | EXXERRCC   | ERRC IN CHAR             |
|         |      | .111 1111 |     | *          | RESERVED                 |
| 4       | (4)  | CHARACTER | 4   | *          | RESERVED                 |
| 8       | (8)  | CHARACTER | 8   | EXXJOB     | JOB NAME                 |
| 16      | (10) | CHARACTER | 5   | EXXJNUM    | JOB NUMBER               |
| 21      | (15) | CHARACTER | 3   | *          | RESERVED                 |
| 24      | (18) | SIGNED    | 4   | EXXCDAT    | CREATION DATE (00YYDDDF) |

| Offsets |      |           |     |               |                         |
|---------|------|-----------|-----|---------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description             |
| 28      | (1C) | SIGNED    | 4   | EXXCTIM       | CREATION TIME (SEC*100) |
| 32      | (20) | SIGNED    | 2   | EXXGMTOF      | GMT OFFSET (MINUTES)    |
| 34      | (22) | CHARACTER | 2   | *             | RESERVED                |
| 36      | (24) | SIGNED    | 4   | EXXERR        | ERROR CODE BIN FORM     |
| 40      | (28) | CHARACTER | 4   | EXXERRC       | ERROR CODE CHAR FORM    |
| 44      | (2C) | CHARACTER | 8   | EXXTOKEN_FULL | OPERATION FULL TOKEN    |
| 44      | (2C) | CHARACTER | 4   | EXXTOKEN_PRE  | PREFIX                  |
| 48      | (30) | UNSIGNED  | 4   | EXXTOKEN      | OPCTOKEN                |
| 52      | (34) | CHARACTER | 7   | EXXAS4ERRC    | FULL AS400 ERROR CODE   |
| 59      | (3B) | CHARACTER | 17  | *             | RESERVED                |
| 76      | (4C) | CHARACTER | 4   | EXXOPCID      | EVENT ID 'EQQX'         |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXX        | 0          |           | 1     |
| EXXAS4ERRC | 34         |           | 2     |
| EXXC DAT   | 18         |           | 2     |
| EXXCTIM    | 1C         |           | 2     |
| EXXERR     | 24         |           | 2     |
| EXXERRC    | 28         |           | 2     |
| EXXERRCC   | 3          | 80        | 3     |
| EXXFLAG    | 3          |           | 2     |
| EXXGMTOF   | 20         |           | 2     |
| EXXJNUM    | 10         |           | 2     |
| EXXJOB N   | 8          |           | 2     |
| EXXOPCID   | 4C         |           | 2     |
| EXXSYSID   | 2          |           | 2     |
| EXXSYST    | 0          |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| EXXTOKEN      | 30         |           | 3     |
| EXXTOKEN_FULL | 2C         |           | 2     |
| EXXTOKEN_PRE  | 2C         |           | 3     |
| EXXTYPE       | 1          |           | 2     |

## EXY - Backup controller event

Name: DCLEXY

Function:

This segment declares the events that are sent from the backup controller to the primary controller.

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 0       | (0)  | STRUCTURE | 80  | EXY        |                        |
| 0       | (0)  | CHARACTER | 1   | EXYSYST    | 'Y'                    |
| 1       | (1)  | CHARACTER | 1   | EXYEVTYP   | 'S'                    |
| 2       | (2)  | CHARACTER | 1   | EXYSTYPE   | '1'                    |
| 3       | (3)  | CHARACTER | 1   | *          |                        |
| 4       | (4)  | CHARACTER | 2   | *          |                        |
| 6       | (6)  | SIGNED    | 2   | EXYGMTOF   | gmt offset in minutes  |
| 8       | (8)  | CHARACTER | 16  | *          |                        |
| 24      | (18) | CHARACTER | 8   | EXYCREAT   | event creation time    |
| 24      | (18) | SIGNED    | 4   | EXYDATE    | date format (00yydddf) |
| 28      | (1C) | SIGNED    | 4   | EXYTIME    | time format (secs*100) |
| 32      | (20) | UNSIGNED  | 2   | EXYCPRUN   | CP run number          |
| 34      | (22) | CHARACTER | 8   | EXYCPTOD   | CP tod                 |
| 42      | (2A) | UNSIGNED  | 2   | EXYLTRUN   | LTP run number         |
| 44      | (2C) | CHARACTER | 8   | EXYLTTOD   | CP tod                 |
| 52      | (34) | CHARACTER | 1   | EXYCP      | Y CP plan exist        |

| Offsets |      |           |     |            |                                                                                                                    |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                        |
| 53      | (35) | CHARACTER | 1   | EXYLT      | Y LT plan exist                                                                                                    |
| 54      | (36) | CHARACTER | 1   | EXYREQ     | A ask Primary will send requested plans or<br>JT C check Primary will check and send if<br>needed disaligned plans |
| 55      | (37) | CHARACTER | 1   | EXYASKTYPE | Ask Type (J,P)                                                                                                     |
| 56      | (38) | UNSIGNED  | 4   | EXYJTSEQNO | JT seqno                                                                                                           |
| 60      | (3C) | CHARACTER | 1   | EXYNEEDCP  |                                                                                                                    |
| 61      | (3D) | CHARACTER | 1   | EXYNEEDLTP |                                                                                                                    |
| 62      | (3E) | CHARACTER | 1   | EXYNEEDJT  |                                                                                                                    |
| 63      | (3F) | CHARACTER | 1   | EXYPHASE   | I = INIT                                                                                                           |
| 64      | (40) | CHARACTER | 4   | EXYJTDAT   |                                                                                                                    |
| 68      | (44) | UNSIGNED  | 4   | EXYJTTIM   |                                                                                                                    |
| 72      | (48) | CHARACTER | 4   | *          |                                                                                                                    |
| 76      | (4C) | CHARACTER | 4   | EXYOPCID   | opc identifier                                                                                                     |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXY        | 0          |           | 1     |
| EXYASKTYPE | 37         |           | 2     |
| EXYCP      | 34         |           | 2     |
| EXYCPRUN   | 20         |           | 2     |
| EXYCPTOD   | 22         |           | 2     |
| EXYCREAT   | 18         |           | 2     |
| EXYDATE    | 18         |           | 3     |
| EXYEVTYP   | 1          |           | 2     |
| EXYGMTOF   | 6          |           | 2     |
| EXYJTDAT   | 40         |           | 2     |
| EXYJTSEQNO | 38         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| EXYJTTIM   | 44         |           | 2     |
| EXYLT      | 35         |           | 2     |
| EXYLTRUN   | 2A         |           | 2     |
| EXYLTTOD   | 2C         |           | 2     |
| EXYNEEDCP  | 3C         |           | 2     |
| EXYNEEDJT  | 3E         |           | 2     |
| EXYNEEDLTP | 3D         |           | 2     |
| EXYOPCID   | 4C         |           | 2     |
| EXYPHASE   | 3F         |           | 2     |
| EXYREQ     | 36         |           | 2     |
| EXYSTYPE   | 2          |           | 2     |
| EXYSYST    | 0          |           | 2     |
| EXYTIME    | 1C         |           | 3     |

## FOPC - OPERINFO structure

### Example

Name : DCLFOPC

Function:

This segment declares the operinfo structure, stored in the controller local data store.

The OPERINFO record is structured as follows:

- 1 OPERINFO
  - 2 common data
  - 2 run info ( )
  - 3 step info ( )
  - 4 DDINFO ( )
  - 5 DSNINFO ( )
  - 5 CATINFO ( )
  - 5 VOLINFO ( )

## Common data segment

| Offsets |      |           |     |                |                                 |
|---------|------|-----------|-----|----------------|---------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                     |
| 0       | (0)  | STRUCTURE | *   | OPER_INFO      |                                 |
| 0       | (0)  | CHARACTER | 12  | OPI_KEY        |                                 |
| 0       | (0)  | CHARACTER | 10  | OPI_OPRTOK     | OPERATION TOKEN                 |
| 0       | (0)  | CHARACTER | 8   | OPI_OCCTOK     | OCCURRENCY TOKEN                |
| 8       | (8)  | SIGNED    | 2   | OPI_OPRNUM     | OPERATION NUMBER                |
| 10      | (A)  | CHARACTER | 2   | *              | RESERVED                        |
| 12      | (C)  | CHARACTER | 56  | OPI_COMMINFO   |                                 |
| 12      | (C)  | CHARACTER | 16  | OPI_APPLID     | APPLICATION ID                  |
| 28      | (1C) | CHARACTER | 10  | OPI_IATIME     | IA® TIME                        |
| 38      | (26) | CHARACTER | 8   | OPI_JOBNAME    | JOB NAME                        |
| 46      | (2E) | CHARACTER | 8   | OPI_JOBID      | JOB IDENTIFIER                  |
| 54      | (36) | CHARACTER | 2   | *              | RESERVED                        |
| 56      | (38) | SIGNED    | 4   | OPI_JCLRBA     | JCL RBA                         |
| 60      | (3C) | SIGNED    | 4   | OPI_TOTOPSIZE  | TOTAL LENGTH OF OPERINFO        |
| 64      | (40) | SIGNED    | 2   | OPI_OPRUNCTR   | NUMBER OF RUNS OF THE OPERATION |
| 66      | (42) | SIGNED    | 2   | OPI_TOTSTPCTR  | STEP COUNTER NUMBER OF STEPS    |
| 68      | (44) | CHARACTER | *   | OPI_VARDATA    |                                 |
| 68      | (44) | CHARACTER | 1   | OPI_VARBYTE(*) |                                 |

## Run info segment

| Offsets |     |           |     |               |                              |
|---------|-----|-----------|-----|---------------|------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description                  |
| 0       | (0) | STRUCTURE | 32  | OPI_RUNINFO   |                              |
| 0       | (0) | SIGNED    | 4   | OPI_NXTRUNRBA | NEXT RUN                     |
| 4       | (4) | SIGNED    | 2   | OPI_RUNID     | NUMBER OF RUN                |
| 6       | (6) | SIGNED    | 2   | OPI_STEPCTR   | STEP COUNTER NUMBER OF STEPS |

| Offsets |      |           |     |              |                               |
|---------|------|-----------|-----|--------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                   |
| 8       | (8)  | CHARACTER | 8   | OPI_JOBBDT   |                               |
| 8       | (8)  | CHARACTER | 4   | OPI_JYEAR    | YEAR OF JOBDATE               |
| 12      | (C)  | CHARACTER | 2   | OPI_JMONTH   | MONTH OF JOBDATE              |
| 14      | (E)  | CHARACTER | 2   | OPI_JDAY     | DAY OF JOBDATE                |
| 16      | (10) | CHARACTER | 8   | OPI_JOBDM    | JOB TIME IN 'X'HHMMSSHH' FORM |
| 24      | (18) | CHARACTER | 8   | OPI_RUNJOBID | JES JOB IDENTIFIER            |

### Step info sub-segment

| Offsets |      |           |     |               |                                           |
|---------|------|-----------|-----|---------------|-------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                               |
| 0       | (0)  | STRUCTURE | 44  | OPI_STPINFO   |                                           |
| 0       | (0)  | SIGNED    | 4   | OPI_NXTSTPRBA | NEXT STEP POSITION IN OPERINFO AREA       |
| 4       | (4)  | CHARACTER | 8   | OPI_STEPNAME  | STEP NAME                                 |
| 12      | (C)  | CHARACTER | 8   | OPI_PRSTNAME  | PROCSTEP NAME                             |
| 20      | (14) | SIGNED    | 2   | OPI_STEPNUMB  | STEP NUMBER                               |
| 22      | (16) | CHARACTER | 5   | OPI_STEPCODE  | COMPLETION CODE (RC, USER, SYSTEM, FLUSH) |
| 27      | (1B) | CHARACTER | 8   | OPI_PGMNAME   | PROGRAM NAME                              |
| 35      | (23) | CHARACTER | 1   | OPI_STEPSTAT  | STEP STATUS                               |
| 36      | (24) | CHARACTER | 2   | OPI_RESCHAR   | RESERVED                                  |
| 38      | (26) | SIGNED    | 2   | OPI_STPRUNID  | NUMBER OF RUN                             |
| 40      | (28) | SIGNED    | 4   | OPI_DDCTR     | NUMBER OF DDS IN STEP                     |

### DDINFO Sub-segment

| Offsets |     |           |     |              |                                  |
|---------|-----|-----------|-----|--------------|----------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                      |
| 0       | (0) | STRUCTURE | 24  | OPI_DDINFO   |                                  |
| 0       | (0) | SIGNED    | 4   | OPI_NXTDDRBA | NEXT DD POSITION WITHIN OPERINFO |



| Offsets |      |           |     |              |                                          |
|---------|------|-----------|-----|--------------|------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                              |
| 4       | (4)  | CHARACTER | 8   | OPI_DDNAME   | DDNAME - FILENAME OR STEPCAT OR JOBCA    |
| 12      | (C)  | SIGNED    | 4   | OPI_DDNUMB   | DD PROGRESSIVE NUMBER IN THE STEP        |
| 16      | (10) | SIGNED    | 2   | OPI_DDRUNID  | NUMBER OF RUN WHERE THE DD WAS ALLOCATED |
| 18      | (12) | CHARACTER | 1   | OPI_DDTYPE   | DD TYPE: U=USER S=STPCAT                 |
| 19      | (13) | CHARACTER | 1   | OPI_DDINFOX  | EXTRA INFO ABOUT DD (BIT BATTERY)        |
|         |      |           |     | OPI_DDPROT   | DD PROTECTED                             |
|         |      |           |     | OPI_DDNEVER  | DD: STEP NEVER RE-EXECUTABLE             |
|         |      |           |     | OPI_DDNOEST  | DD: STEP NEVER RESTARTABLE               |
|         |      |           |     | OPI_DDALWAYS | DD: STEP RESTARTABLE                     |
|         |      |           |     | *            |                                          |
| 20      | (14) | SIGNED    | 4   | OPI_DSNCTR   | NUMBER OF DSN WITHIN THE DD              |

### DSNINFO Sub-segment

| Offsets |      |           |     |               |                                       |
|---------|------|-----------|-----|---------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                           |
| 0       | (0)  | STRUCTURE | 82  | OPI_DSNINFO   |                                       |
| 0       | (0)  | SIGNED    | 4   | OPI_NXTDSNRBA | NEXT DSN POSITION IN OPERINFO         |
| 4       | (4)  | CHARACTER | 44  | OPI_DSNAME    | DATASET NAME                          |
| 48      | (30) | CHARACTER | 1   | OPI_DSNINST   | DATASET STATUS: N=NEW O=OLD           |
| 49      | (31) | CHARACTER | 4   | OPI_DSNOKST   | DISP IF STEP IS NORMALLY EXECUTED     |
| 53      | (35) | CHARACTER | 4   | OPI_DSNKOST   | DISP IF STEP IS ABNORMALLY ENDED      |
| 57      | (39) | CHARACTER | 4   | OPI_DSNDNORM  | DISP NORMAL FROM JCL                  |
| 61      | (3D) | CHARACTER | 4   | OPI_DSNDABNM  | DISP ABNORMAL FROM JCL                |
| 65      | (41) | CHARACTER | 1   | OPI_DSNSTAT   | STATUS OF DATASET AT END OF LAST JOBE |

| Offsets |      |           |     |              |                                              |
|---------|------|-----------|-----|--------------|----------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                                  |
| 66      | (42) | CHARACTER | 1   | OPI_DSNTYPE  | ID DATASET AS GDG, SMS MANAGED               |
|         |      |           |     | OPI_GDG      | .. DATASET IS A GDG                          |
|         |      |           |     | OPI_SMS      | .. DATASET IS SMS MANAGED                    |
|         |      |           |     | OPI_VSAM     | .. DATASET IS A VSAM                         |
|         |      |           |     | OPI_MIGR     | .. DATASET IS MIGRAT                         |
|         |      |           |     | OPI_REFBK    | .. DATASET IS MIGRAT                         |
|         |      |           |     | OPI_JBCAT    | .. IS A JOBCAT                               |
|         |      |           |     | OPI_STCAT    | .. IS A STEPCAT                              |
|         |      |           |     | *            | *                                            |
| 67      | (43) | CHARACTER | 1   | OPI_DEVTYPE  | DEVICE TYPE: D=DASD T=TAPE                   |
| 68      | (44) | CHARACTER | 1   | OPI_DSNCLEAN | SUBJECT TO CLEAN UP ACTIONS?<br>(Y/N)        |
| 69      | (45) | CHARACTER | 1   | OPI_DSNPROT  | FLAG INDICATOR: DATASET IS<br>PROTECTED      |
| 70      | (46) | SIGNED    | 2   | OPI_GDGRELNR | RELATIVE NUMBER FOR GDG                      |
| 72      | (48) | SIGNED    | 2   | OPI_DSNNUMB  | PROGRESSIVE DSN NUMBER WITHIN<br>THE DD      |
| 74      | (4A) | SIGNED    | 2   | OPI_DSNCLNRC | CLEAN UP INTERNAL REASON CODE                |
| 76      | (4C) | SIGNED    | 2   | OPI_DSNRUNID | NUMBER OF RUN WHERE THE DSN<br>WAS ALLOCATED |
| 78      | (4E) | SIGNED    | 2   | OPI_VOLCTR   | NUMBER OF VOL FOR THE DATASET                |
| 80      | (50) | CHARACTER | 1   | OPI_CATTTYPE | CATALOG TYPE: BLANK=MASTERCAT                |
| 81      | (51) | CHARACTER | 1   | OPI_DSNFLAGS | OTHER FLAGS                                  |
|         |      |           |     | OPI_VALIDREL | VALID GDG RELEASE NUMBER<br>INDICATOR        |
|         |      |           |     | OPI_JCLFLVOL | VOLUME FROM JCL                              |
|         |      |           |     | *            | EVENT ID 'EQQX'                              |

## CATINFO Sub-segment

| Offsets |     |           |     |              |                                          |
|---------|-----|-----------|-----|--------------|------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                              |
| 0       | (0) | STRUCTURE | 44  | OPI_CATLINFO | EXISTS ONLY IF OPI_CATTTYPE IS NOT BLANK |
| 0       | (0) | CHARACTER | 44  | OPI_CATNAME  | CATALOG NAME                             |

## VOLINFO Sub-segment

| Offsets |     |           |     |              |                                |
|---------|-----|-----------|-----|--------------|--------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                    |
| 0       | (0) | STRUCTURE | 12  | OPI_VOLINFO  |                                |
| 0       | (0) | CHARACTER | 6   | OPI_VOLSER   | VOLUME SERIAL NUMBER           |
| 6       | (6) | SIGNED    | 2   | OPI_VOLNUMB  | PROGRESSIVE VOL NUMBER         |
| 8       | (8) | SIGNED    | 2   | OPI_DSNSQNUM | SEQUENCE NUMBER OF THE DATASET |
| 10      | (A) | CHARACTER | 2   | OPI_RESCHAR  | RESERVED                       |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| OPER_INFO    | 0          |           | 1     |
| OPI_APPLID   | C          |           | 3     |
| OPI_CATLINFO | 0          |           | 1     |
| OPI_CATNAME  | 0          |           | 2     |
| OPI_CATTTYPE | 50         |           | 2     |
| OPI_COMMINFO | C          |           | 2     |
| OPI_DDALWAYS | 13         | 10        | 3     |
| OPI_DDCTR    | 28         |           | 2     |
| OPI_DDINFO   | 0          |           | 1     |
| OPI_DDINFOX  | 13         |           | 2     |
| OPI_DDNAME   | 4          |           | 2     |
| OPI_DDNEVER  | 13         | 40        | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| OPI_DDNOREST | 13         | 20        | 3     |
| OPI_DDNUMB   | C          |           | 2     |
| OPI_DDPROT   | 13         | 80        | 3     |
| OPI_DDRUNID  | 10         |           | 2     |
| OPI_DDTYPE   | 12         |           | 2     |
| OPI_DEVTYPE  | 43         |           | 2     |
| OPI_DSNAME   | 4          |           | 2     |
| OPI_DSNCLEAN | 44         |           | 2     |
| OPI_DSNCLNRC | 4A         |           | 2     |
| OPI_DSNCTR   | 14         |           | 2     |
| OPI_DSNDABNM | 3D         |           | 2     |
| OPI_DSNDNORM | 39         |           | 2     |
| OPI_DSNFLAGS | 51         |           | 2     |
| OPI_DSNINFO  | 0          |           | 1     |
| OPI_DSNINST  | 30         |           | 2     |
| OPI_DSNKOST  | 35         |           | 2     |
| OPI_DSNNUMB  | 48         |           | 2     |
| OPI_DSNOKST  | 31         |           | 2     |
| OPI_DSNPROT  | 45         |           | 2     |
| OPI_DSNRUNID | 4C         |           | 2     |
| OPI_DSNSQNUM | 8          |           | 2     |
| OPI_DSNSTAT  | 41         |           | 2     |
| OPI_DSNTYPE  | 42         |           | 2     |
| OPI_GDG      | 42         | 80        | 3     |
| OPI_GDGRELN  | 46         |           | 2     |
| OPI_IATIME   | 1C         |           | 3     |
| OPI_JBCAT    | 42         | 04        | 3     |
| OPI_JCLFLVOL | 51         | 40        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| OPI_JCLRBA    | 38         |           | 3     |
| OPI_JDAY      | E          |           | 3     |
| OPI_JMONTH    | C          |           | 3     |
| OPI_JOBBDT    | 8          |           | 2     |
| OPI_JOBID     | 2E         |           | 3     |
| OPI_JOBNAME   | 26         |           | 3     |
| OPI_JOBTM     | 10         |           | 2     |
| OPI_JYEAR     | 8          |           | 3     |
| OPI_KEY       | 0          |           | 2     |
| OPI_MIGR      | 42         | 10        | 3     |
| OPI_NXTDDRBA  | 0          |           | 2     |
| OPI_NXTDSNRBA | 0          |           | 2     |
| OPI_NXTRUNRBA | 0          |           | 2     |
| OPI_NXTSTPRBA | 0          |           | 2     |
| OPI_OCCTOK    | 0          |           | 4     |
| OPI_OPRNUM    | 8          |           | 4     |
| OPI_OPRTOK    | 0          |           | 3     |
| OPI_OPRUNCTR  | 40         |           | 3     |
| OPI_PGMNAME   | 1B         |           | 2     |
| OPI_PRSTNAME  | C          |           | 2     |
| OPI_REFBK     | 42         | 08        | 3     |
| OPI_RESCHAR   | 24         |           | 2     |
| OPI_RUNID     | 4          |           | 2     |
| OPI_RUNINFO   | 0          |           | 1     |
| OPI_RUNJOBID  | 18         |           | 2     |
| OPI_SMS       | 42         | 40        | 3     |
| OPI_STCAT     | 42         | 02        | 3     |
| OPI_STEPCODE  | 16         |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| OPI_STEPCTR   | 6          |           | 2     |
| OPI_STEPNAME  | 4          |           | 2     |
| OPI_STEPNUMB  | 14         |           | 2     |
| OPI_STEPSTAT  | 23         |           | 2     |
| OPI_STPINFO   | 0          |           | 1     |
| OPI_STPRUNID  | 26         |           | 2     |
| OPI_TOTOPSIZE | 3C         |           | 3     |
| OPI_TOTSTPCTR | 42         |           | 3     |
| OPI_VALIDREL  | 51         | 80        | 3     |
| OPI_VARBYTE   | 44         |           | 3     |
| OPI_VARDATA   | 44         |           | 2     |
| OPI_VOLCTR    | 4E         |           | 2     |
| OPI_VOLINFO   | 0          |           | 1     |
| OPI_VOLNUMB   | 6          |           | 2     |
| OPI_VOLSER    | 0          |           | 2     |
| OPI_VSAM      | 42         | 20        | 3     |

## FSAB - Secondary key task control block

### Example

Name : DCLFSAB

Function:

This segment declares the secondary key task control block structure.

| Offsets |     |           |     |            |                      |
|---------|-----|-----------|-----|------------|----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description          |
| 0       | (0) | STRUCTURE | 37  | FSAB       | SECONDARY KEYS CLASS |
| 0       | (0) | CHARACTER | 10  | SABOPRTK   | OPERATION TOKEN      |
| 0       | (0) | CHARACTER | 8   | SABOCCTK   | OCCURRENCE TOKEN     |
| 8       | (8) | SIGNED    | 2   | SABOPRNR   | OPERATION NUMBER     |
| 10      | (A) | CHARACTER | 27  | SABRESRV   | RESERVED CHARS       |

## FSCB - Current® primary index record control block

### Example

Name : DCLFSCB

Function:

This module contains the declarative of the FSCB structure which maps a generic record of the VSAM file constituting the primary index inside the database of the data store. It is used each time that an internal module of the data store requires a physical direct access to the primary index.

Inside the module, you can distinguish the primary key of the SYSOUT, that is, the key of the KSDS:

Jobname

Execution date

Execution time

SYSOUT identifier

Other data comprise:

Structured and unstructured datafile number

Structured and unstructured datapage RBN (relative block number)

Structured and unstructured datapage total number

A set of these three elements (separately for structured and unstructured data) constitutes the coordinates used to correctly locate the data portion of the SYSOUT, inside both a structured and unstructured datafile.

Finally, to complete this structure, there is the secondary SYSOUT key. This comprises:

Occurrence token

Operation number

These data form the operation token representing, inside the cleanup and restart local data store, the alternative key to get a job log. A filler for future use closes the structure.

| Offsets |     |           |     |            |                                 |
|---------|-----|-----------|-----|------------|---------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                     |
| 0       | (0) | STRUCTURE | 77  | FSCB       | CPRIMARYIDXREC CONTROL BLOCK    |
| 0       | (0) | CHARACTER | 77  | SKPIDXRC   | CURRENT PRIMARY KEY             |
| 0       | (0) | CHARACTER | 34  | FSXB       | PRIMARY KEY CLASS CONTROL BLOCK |
| 0       | (0) | CHARACTER | 8   | SXBJOBNM   | JOBNAME                         |
| 8       | (8) | CHARACTER | 8   | SXBJOBDT   |                                 |
| 8       | (8) | CHARACTER | 4   | SXBYEAR    | YEAR OF JOBDATE                 |
| 12      | (C) | CHARACTER | 2   | SXBMONTH   | MONTH OF JOBDATE                |
| 14      | (E) | CHARACTER | 2   | SXBDAY     | DAY OF JOBDATE                  |

| Offsets |      |           |     |            |                                             |
|---------|------|-----------|-----|------------|---------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                 |
| 16      | (10) | CHARACTER | 8   | SXBJOBTM   | JOB TIME IN X'HHMMSSHH' FORMAT              |
| 24      | (18) | CHARACTER | 8   | SXBJOBID   | JES JOB IDENTIFIER                          |
| 32      | (20) | SIGNED    | 2   | SXBDSID    | SYSOUT DD IDENT. IT IS EQUAL TO JES DSID    |
| 34      | (22) | UNSIGNED  | 1   | SFSTFILN   | STRUCTURED DATAFILE FILE NUMBER             |
| 35      | (23) | UNSIGNED  | 1   | SFUNFILN   | UNSTRUC. DATAFILE FILE NUMBER               |
| 36      | (24) | SIGNED    | 4   | SFSTRBN    | SYSOUT RBN IN STRUCTURED DATAFILE           |
| 40      | (28) | SIGNED    | 4   | SFUNRBN    | SYSOUT RBN IN UNSTRUCTURED DATAFILE         |
| 44      | (2C) | SIGNED    | 4   | SKBUTOTP   | TOTAL NUMB.OF PAGES FOR UNSTRUCTURED SYSOUT |
| 48      | (30) | SIGNED    | 4   | SKBSTOTP   | TOTAL NUMB.OF PAGES FOR STRUCTURED SYSOUT   |
| 52      | (34) | CHARACTER | 10  | SABELEM    | ELEM.OF SECOND. KEY                         |
| 52      | (34) | CHARACTER | 10  | SABOPRTK   | OPERATION TOKEN                             |
| 52      | (34) | CHARACTER | 8   | SABOCCTK   | OCCURRENCE TOKEN                            |
| 60      | (3C) | SIGNED    | 2   | SABOPRNR   | OPERATION NUMBER                            |
| 62      | (3E) | CHARACTER | 15  | SKPFILL    | FILER TO COMPLETE PIDX RECORD               |

### Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| FSCB     | 0          |           | 1     |
| FSXB     | 0          |           | 3     |
| SABELEM  | 34         |           | 3     |
| SABOCCTK | 34         |           | 5     |
| SABOPRNR | 3C         |           | 5     |
| SABOPRTK | 34         |           | 4     |
| SFSTFILN | 22         |           | 3     |



| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| SFSTRBN  | 24         |           | 3     |
| SFUNFILN | 23         |           | 3     |
| SFUNRBN  | 28         |           | 3     |
| SKBSTOTP | 30         |           | 3     |
| SKBUTOTP | 2C         |           | 3     |
| SKPFILL  | 3E         |           | 3     |
| SKPIDXRC | 0          |           | 2     |
| SXBDAY   | E          |           | 5     |
| SXBDSID  | 20         |           | 4     |
| SXBJOBDT | 8          |           | 4     |
| SXBJOBID | 18         |           | 4     |
| SXBJOBNM | 0          |           | 4     |
| SXBJOBTM | 10         |           | 4     |
| SXBMONTH | C          |           | 5     |
| SXBYEAR  | 8          |           | 5     |

## FSFB - Datafile control block

### Example

Name : DCLFSFB

Function:

This module contains the control block that represents the Datafile Sub Task.

There is a Datafile Sub Task for each VSAM file (SDF or UDF) defined to Data Store.

| Offsets |  |     |           |     |            |                              |
|---------|--|-----|-----------|-----|------------|------------------------------|
| Dec     |  | Hex | Type      | Len | Name (Dim) | Description                  |
| 0       |  | (0) | STRUCTURE | 100 | FSFB       | CDAFILE CTLBLK               |
| 0       |  | (0) | CHARACTER | 4   | SFBDESC    | DATAFILE CTL BLOCK           |
| 4       |  | (4) | ADDRESS   | 4   | SDBP       | MAIN SYSOUTDB CTLBLK ADDRESS |
| 8       |  | (8) | ADDRESS   | 4   | SFBRLSTP   | CDAFILE REQUEST QUEUE        |
| 12      |  | (C) | ADDRESS   | 4   | SFBECBAP   | CDAFILE SUBTASK ATTACH       |

| Offsets |  |      |                                                                                                  |     |                                                                                             |                                                                                                                                                                                                                          |
|---------|--|------|--------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     |  | Hex  | Type                                                                                             | Len | Name (Dim)                                                                                  | Description                                                                                                                                                                                                              |
| 16      |  | (10) | ADDRESS                                                                                          | 4   | SFBECBOP                                                                                    | CDAFILE OPEN PROCESS                                                                                                                                                                                                     |
| 20      |  | (14) | UNSIGNED                                                                                         | 4   | SFBECBAT                                                                                    | CDAFILE SUBTASK ECB                                                                                                                                                                                                      |
| 24      |  | (18) | UNSIGNED                                                                                         | 4   | SFBECBOC                                                                                    | DATAFILE OPEN COMPLETED ECB                                                                                                                                                                                              |
| 28      |  | (1C) | UNSIGNED                                                                                         | 4   | SFBECBRQ                                                                                    | CDAFILE SUBTASK REQUEST                                                                                                                                                                                                  |
| 32      |  | (20) | ADDRESS                                                                                          | 4   | SFBTCBP                                                                                     | CDAFILE SUBTASK TCB                                                                                                                                                                                                      |
| 36      |  | (24) | ADDRESS                                                                                          | 4   | SMBP                                                                                        | SPACE MAP CTLBLK ADDRESS                                                                                                                                                                                                 |
| 40      |  | (28) | CHARACTER                                                                                        | 8   | SFBRDID                                                                                     | DATAFILE READER DIV                                                                                                                                                                                                      |
| 48      |  | (30) | SIGNED                                                                                           | 4   | SFBRDSIZ                                                                                    | DATAFILE SIZE IN NUMBER OF                                                                                                                                                                                               |
| 52      |  | (34) | CHARACTER                                                                                        | 8   | SFBUTID                                                                                     | DATAFILE UTILITY DIV                                                                                                                                                                                                     |
| 60      |  | (3C) | SIGNED                                                                                           | 4   | SFBUTSIZ                                                                                    | DATAFILE SIZE IN NUMBER OF                                                                                                                                                                                               |
| 64      |  | (40) | CHARACTER                                                                                        | 8   | SFBUPID                                                                                     | DATAFILE UPDATE DIV                                                                                                                                                                                                      |
| 72      |  | (48) | SIGNED                                                                                           | 4   | SFBSIZE                                                                                     | DATAFILE SIZE IN NUMBER OF                                                                                                                                                                                               |
| 76      |  | (4C) | SIGNED                                                                                           | 4   | SFBSTRC                                                                                     | DATAFILE SUBTASK RETURN CODE                                                                                                                                                                                             |
| 80      |  | (50) | SIGNED                                                                                           | 4   | SFBSTRSC                                                                                    | DATAFILE SUBTASK RETURN CODE                                                                                                                                                                                             |
| 84      |  | (54) | CHARACTER                                                                                        | 6   | SFBHDPAG                                                                                    | HEADER PAGE CONTENTS                                                                                                                                                                                                     |
| 84      |  | (54) | CHARACTER                                                                                        | 4   | SFBHPDES                                                                                    | HEADER PAGE DESCRIPTOR;                                                                                                                                                                                                  |
| 88      |  | (58) | CHARACTER                                                                                        | 1   | SFFILTYP                                                                                    | DATAFILE TYPE:                                                                                                                                                                                                           |
| 89      |  | (59) | UNSIGNED                                                                                         | 1   | SFFILNUM                                                                                    | DATAFILE FILE NUMBER                                                                                                                                                                                                     |
| 90      |  | (5A) | CHARACTER<br>1... ..<br>.1.. ..<br>..1. ....<br>...1 ....<br>.... 1...<br>.... .1..<br>.... ..1. | 1   | SFBFLAGS<br>SFBIMEXF<br>SFBOPINC<br>SFBRDYF<br>SFBCLDSF<br>SFBROOPF<br>SFBFMTRQ<br>SFBUTOPF | DATAFILE INDICATORS<br>IMPOSSIBLE EXTENSION FLAG;<br>DATAFILE OPEN INCOMPLETE<br>DATAFILE READY INDICATOR<br>DATAFILE CLOSED STATUS<br>READY (OPEN) FOR READER<br>OPEN WITH FORMAT REQUEST:<br>READY (OPEN IN READ MODE) |
| 91      |  | (5B) | CHARACTER                                                                                        | 9   | SFBDD                                                                                       | DATAFILE DDNAME STRUCTURE                                                                                                                                                                                                |
| 91      |  | (5B) | UNSIGNED                                                                                         | 1   | SFBDDLTH                                                                                    | DATAFILE DDNAME LENGTH                                                                                                                                                                                                   |
| 92      |  | (5C) | CHARACTER                                                                                        | 8   | SFBDDN                                                                                      | DATAFILE DDNAME                                                                                                                                                                                                          |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| FSFB     | 0          |           | 1     |
| SDBP     | 4          |           | 2     |
| SFBCLOSF | 5A         | 10        | 3     |
| SFBDD    | 5B         |           | 2     |
| SFBDDLTH | 5B         |           | 3     |
| SFBDDN   | 5C         |           | 3     |
| SFBDESC  | 0          |           | 2     |
| SFBECBAP | C          |           | 2     |
| SFBECBAT | 14         |           | 2     |
| SFBECBOC | 18         |           | 2     |
| SFBECBOP | 10         |           | 2     |
| SFBECBRQ | 1C         |           | 2     |
| SFBFLAGS | 5A         |           | 2     |
| SFBFMTRQ | 5A         | 04        | 3     |
| SFBHDPAG | 54         |           | 2     |
| SFBHPDES | 54         |           | 3     |
| SFBIMEXF | 5A         | 80        | 3     |
| SFBOPINC | 5A         | 40        | 3     |
| SFBRDID  | 28         |           | 2     |
| SFBRDSIZ | 30         |           | 2     |
| SFBRDYF  | 5A         | 20        | 3     |
| SFBRLSTP | 8          |           | 2     |
| SFBROOPF | 5A         | 08        | 3     |
| SFBSIZE  | 48         |           | 2     |
| SFBSTRC  | 4C         |           | 2     |
| SFBSTRSC | 50         |           | 2     |
| SFBTCBP  | 20         |           | 2     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| SFBUPID  | 40         |           | 2     |
| SFBUTID  | 34         |           | 2     |
| SFBUTOPF | 5A         | 02        | 3     |
| SFBUTSIZ | 3C         |           | 2     |
| SFFILNUM | 59         |           | 3     |
| SFFILTYP | 58         |           | 3     |
| SMBP     | 24         |           | 2     |

## FSIR - Secondary index record structure

### Example

Name : DCLFSIR

Function:

This module contains the declarative of the secondary index record structure.

| Offsets |      |           |     |               |                                  |
|---------|------|-----------|-----|---------------|----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                      |
| 0       | (0)  | STRUCTURE | *   | FSIR          | SECONDARY INDEX RECORD STRUCTURE |
| 0       | (0)  | CHARACTER | 40  | FSYB          | GENERIC SECONDARY ACCESS         |
| 0       | (0)  | CHARACTER | 38  | SYBVSKEY      | SECONDARY ACCESS KEY             |
| 0       | (0)  | UNSIGNED  | 1   | SYBTIPSK      | SECONDARY ACCESS KEY TYPE        |
| 1       | (1)  | CHARACTER | 37  | SYBGSVAL      | SECONDARY ACCESS KEY VALUE       |
| 1       | (1)  | CHARACTER | 1   | SYBGSARR (37) |                                  |
| 1       | (1)  | CHARACTER | 1   | SYBGSBYB      | SINGLE BYTE OF GENERIC           |
| 38      | (26) | UNSIGNED  | 1   | SYBGSLTH      | TOTAL LENGTH OF SECONDARY        |
| 39      | (27) | CHARACTER | 1   | RESCHAR       | RESERVED CHARACTER               |
| 40      | (28) | SIGNED    | 2   | SIRPKCTR      | COUNTER OF STORED PRIMARY KEYS   |
| 42      | (2A) | CHARACTER | 34  | SKPIDXRC (*)  | CURRENT PRIMARY KEY RECORD       |
| 42      | (2A) | CHARACTER | 34  | FSXB          | PRIMARY KEY CLASS CONTROL        |
| 42      | (2A) | CHARACTER | 8   | SXBJOBNM      | JOBNAME                          |

| Offsets |      |           |     |            |                                |
|---------|------|-----------|-----|------------|--------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                    |
| 50      | (32) | CHARACTER | 8   | SXBJOBDT   | JOBDATE                        |
| 50      | (32) | CHARACTER | 4   | SXBYEAR    | YEAR OF JOBDATE                |
| 54      | (36) | CHARACTER | 2   | SXBMONTH   | MONTH OF JOBDATE               |
| 56      | (38) | CHARACTER | 2   | SXBDAY     | DAY OF JOBDATE                 |
| 58      | (3A) | CHARACTER | 8   | SXBJOBTM   | JOB TIME IN 'XHHMMSSHH' FORMAT |
| 66      | (42) | CHARACTER | 8   | SXBJOBID   | JES JOB IDENTIFIER             |
| 74      | (4A) | SIGNED    | 2   | SXBDSID    | SYSOUT DD IDENTIFIER           |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| FSIR      | 0          |           | 1     |
| FSXB      | 2A         |           | 3     |
| FSYB      | 0          |           | 2     |
| RESCHAR   | 27         |           | 3     |
| SIRPKCTR  | 28         |           | 2     |
| SKPIDXRC  | 2A         |           | 2     |
| SXBDAY    | 38         |           | 5     |
| SXBDSID   | 4A         |           | 4     |
| SXBJOBDT  | 32         |           | 4     |
| SXBJOBID  | 42         |           | 4     |
| SXBJOBNM  | 2A         |           | 4     |
| SXBJOBTM  | 3A         |           | 4     |
| SXBMONTH  | 36         |           | 5     |
| SXBYEAR   | 32         |           | 5     |
| SYBGSARR  | 1          |           | 5     |
| SYBGSEBYT | 1          |           | 6     |
| SYBGSLTH  | 26         |           | 3     |
| SYBGSEVAL | 1          |           | 4     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| SYBTIPSK | 0          |           | 4     |
| SYBVSKEY | 0          |           | 3     |

## FSPB - Datapage instance structure

### Example

Name : DCLFSPB

Function:

This module contains the declarative of the FSPB structure, which maps a generic datapage of a datafile, that is, a generic 4096 bytes page inside one of the linear VSAM data sets reserved to contain the SYSOUTs represented in the form of either structured or unstructured data. This structure is used by several modules of data store to read / write the SYSOUT data, to interpret, clean, import, and export it. In the datapage structure you can find:

- A prefix, reserved to identify the sysout inside a specific datafile. Within the more significant prefix data we can list, in the real order:
  - The data page status indicator, which characterizes the data as logically deleted (leftmost bit in on)
  - The primary key of the sysout
  - The RBN (relative block number) of the first page of the SYSOUT
  - The total number of pages that constitute the SYSOUT
  - The secondary key of the SYSOUT
- The information about the real space used to store into the datapage the whole SYSOUT (if a single page can contain it completely) or a portion of it. Clearly, this length excludes the prefix and itself.

The generic area reserved to contain a SYSOUT data portion is expressed as a generic array of single characters. The ability to interpret the contents of the data portion of the datapage is reserved to specific modules of the data store. A SYSOUT data portion inside an *unstructured* datafile is represented as an ordered list of variable-length records. However, inside a *structured* datafile, a SYSOUT has a more complex layout, to interpret which further mapping structures are needed.

| Offsets |     |           |      |            |                           |
|---------|-----|-----------|------|------------|---------------------------|
| Dec     | Hex | Type      | Len  | Name (Dim) | Description               |
| 0       | (0) | STRUCTURE | 4096 | FSPB       | DATAPAGE INST.STRUC       |
| 0       | (0) | CHARACTER | 86   | SPBPRFX    | DATAPAGE PREFIX STR       |
|         |     |           |      | DPGDELFL   | DATAPAGE STATUS INDICATOR |
| 2       | (2) | SIGNED    | 2    | RESHALFW   | RESERVED HALFWORD         |
| 4       | (4) | CHARACTER | 34   | FSXB       | PRIMARY KEY CLASS CONTROL |

| Offsets |      |           |      |                |                                     |
|---------|------|-----------|------|----------------|-------------------------------------|
| Dec     | Hex  | Type      | Len  | Name (Dim)     | Description                         |
| 4       | (4)  | CHARACTER | 8    | SXBJOBNM       | JOBNAME                             |
| 12      | (C)  | CHARACTER | 8    | SXBJOBDT       |                                     |
| 12      | (C)  | CHARACTER | 4    | SXBYEAR        | YEAR OF JOBDATE                     |
| 16      | (10) | CHARACTER | 2    | SXBMONTH       | MONTH OF JOBDATE                    |
| 18      | (12) | CHARACTER | 2    | SXBDAY         | DAY OF JOBDATE                      |
| 20      | (14) | CHARACTER | 8    | SXBJOBTM       | JOB TIME IN X'HHMMSSHH'             |
| 28      | (1C) | CHARACTER | 8    | SXBJOBID       | JES JOB IDENTIFIER                  |
| 36      | (24) | SIGNED    | 2    | SXBDSID        | SYSOUT DD IDENTIFIER                |
| 40      | (28) | SIGNED    | 4    | SPBRBN         | RBN OF THE FIRST SYSOUT             |
| 44      | (2C) | SIGNED    | 4    | SPBTOTPG       | TOTAL NUMBER OF PAGES FOR<br>SYSOUT |
| 48      | (30) | CHARACTER | 37   | FSAB           | SECONDARY KEYS CLASS                |
| 48      | (30) | CHARACTER | 10   | SABOPRTK       | OPERATION TOKEN                     |
| 48      | (30) | CHARACTER | 8    | SABOCCTK       | OCCURRENCE TOKEN                    |
| 56      | (38) | SIGNED    | 2    | SABOPRNR       | OPERATION NUMBER                    |
| 58      | (3A) | CHARACTER | 27   | SABRESRV       | RESERVED CHARACTERS                 |
| 85      | (55) | CHARACTER | 1    | RESCHAR        | RESERVED CHARACTER                  |
| 86      | (56) | SIGNED    | 2    | SPBDATLT       | DATA LENGTH IN DATA DATAPAGE        |
| 88      | (58) | CHARACTER | 4008 | SPBDATA        |                                     |
| 88      | (58) | CHARACTER | 1    | SPBCHARY(4008) | DATA PAGE DATA                      |
| 88      | (58) | CHARACTER | 1    | DPGDCHAR       | DATAPAGE SINGLEDATA                 |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| DPGDCHAR | 58         |           | 4     |
| DPGDELFL | 0          | 80        | 3     |
| FSAB     | 30         |           | 3     |
| FSPB     | 0          |           | 1     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| FSXB     | 4          |           | 3     |
| RESCHAR  | 55         |           | 3     |
| RESHALFW | 2          |           | 3     |
| SABOCCTK | 30         |           | 5     |
| SABOPRNR | 38         |           | 5     |
| SABOPRTK | 30         |           | 4     |
| SABRESRV | 3A         |           | 4     |
| SPBCHARY | 58         |           | 3     |
| SPBDATA  | 58         |           | 2     |
| SPBDATLT | 56         |           | 2     |
| SPBPRFX  | 0          |           | 2     |
| SPBRBN   | 28         |           | 3     |
| SPBTOTPG | 2C         |           | 3     |
| SXBDAY   | 12         |           | 5     |
| SXBDSID  | 24         |           | 4     |
| SXBJOBDT | C          |           | 4     |
| SXBJOBID | 1C         |           | 4     |
| SXBJOBNM | 4          |           | 4     |
| SXBJOBTM | 14         |           | 4     |
| SXBMONTH | 10         |           | 5     |
| SXBYEAR  | C          |           | 5     |

## FSSB - Structured datapage layout

### Example

Name : DCLFSSB

Function:

This module contains the declarative of the structured datapage structure.



| Offsets |      |           |      |            |                                               |
|---------|------|-----------|------|------------|-----------------------------------------------|
| Dec     | Hex  | Type      | Len  | Name (Dim) | Description                                   |
| 0       | (0)  | STRUCTURE | 4096 | FSSB       | STRUCTURED DATAPAGE LAYOUT                    |
| 0       | (0)  | CHARACTER | 86   | SPBPRFX    | DATAPAGE PREFIX STRUCTURE                     |
|         |      |           |      | DPGDELFL   | DATAPAGE STATUS INDICATOR                     |
| 2       | (2)  | SIGNED    | 2    | RESHALFW   | RESERVED HALFWORD                             |
| 4       | (4)  | CHARACTER | 34   | FSXB       | PRIMARY KEY CLASS CONTROL BLOCK               |
| 4       | (4)  | CHARACTER | 8    | SXBJOBNM   | JOBNAME                                       |
| 12      | (C)  | CHARACTER | 8    | SXBJOBDT   |                                               |
| 12      | (C)  | CHARACTER | 4    | SXBYEAR    | YEAR OF JOBDATE                               |
| 16      | (10) | CHARACTER | 2    | SXBMONTH   | MONTH OF JOBDATE                              |
| 18      | (12) | CHARACTER | 2    | SXBDAY     | DAY OF JOBDATE                                |
| 20      | (14) | CHARACTER | 8    | SXBJOBTM   | JOB TIME IN 'XHHMMSSHH' FORMAT                |
| 28      | (1C) | CHARACTER | 8    | SXBJOBID   | JES JOB IDENTIFIER                            |
| 36      | (24) | SIGNED    | 2    | SXBDSID    | SYSOUT DD IDENTIFIER. IT IS EQUAL TO JES JSID |
| 40      | (28) | SIGNED    | 4    | SPBRBN     | RBN OF THE FIRST SYSOUT DATAPAGE              |
| 44      | (2C) | SIGNED    | 4    | SPBTOTPG   | TOTAL NUMBER OF PAGES FOR SYSOUT              |
| 48      | (30) | CHARACTER | 37   | FSAB       | SECONDARY KEYS CLASS CONTROL BLOCK            |
| 48      | (30) | CHARACTER | 10   | SABOPRTK   | OPERATION TOKEN                               |
| 48      | (30) | CHARACTER | 8    | SABOCCTK   | OCCURRENCE TOKEN                              |
| 56      | (38) | SIGNED    | 2    | SABOPRNR   | OPERATION NUMBER                              |
| 58      | (3A) | CHARACTER | 27   | SABRESRV   | RESERVED CHARACTERS                           |
| 85      | (55) | CHARACTER | 1    | RESCHAR    | RESERVED CHARACTER                            |
| 86      | (56) | SIGNED    | 2    | SPBDATLT   | DATA LENGTH IN DATA PAGE                      |
| 88      | (58) | CHARACTER | 4008 | SSBPAGDT   | DATA PORTION OF A STRUCTURED DATA PAGE        |

| Offsets |      |           |      |                |                                                                                                                                                               |
|---------|------|-----------|------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len  | Name (Dim)     | Description                                                                                                                                                   |
| 88      | (58) | CHARACTER | 8    | SSBPRFX        |                                                                                                                                                               |
| 88      | (58) | CHARACTER | 1    | SSBSTRTY       | TYPE OF STRUCTURED DATA SECTION: J=EXPANDED JCL<br>C=RESTART AND CLEAN UP                                                                                     |
| 90      | (5A) | SIGNED    | 2    | SSBEXENR       | EXECUTION NUMBER. IN LOCAL DATA STORE AND ONLY FOR TYPE 'C'. IT IDENTIFIES THE REPEATED EXECUTIONS OF THE SAME OPERATION.                                     |
| 92      | (5C) | SIGNED    | 2    | SSBPARG        | NUMBER OF PAGES FILLED OUT FOR A SINGLE STRUCTURED DATA PORTION (SINGLE EXECUTION). IT IS A SUBTOTAL OF THE TOTAL WITHIN THE DATA PAGE PREFIX                 |
| 94      | (5E) | SIGNED    | 2    | SSBPAGNR       | PROGRESSIVE NUMBER OF DATA PAGE WITHIN A SINGLE STRUCTURED DATA PORTION (EXPANDED JCL OR SPECIFIC EXECUTION)                                                  |
| 96      | (60) | CHARACTER | 4000 | SSBDATA        |                                                                                                                                                               |
| 96      | (60) | CHARACTER | 1    | SSBCHARY(4000) | STRUCTURED DATA PAGE CHAR ARRAY CONSTITUTING THE DATA PORTION OF STRUCTURED DATA PAGE. IT IS THE GENERIC REPRESENTATION OF STRUCTURED DATA WITHIN A DATA PAGE |
| 96      | (60) | CHARACTER | 1    | DPGDCHAR       | DATA PAGE SINGLE DATA CHARACTER                                                                                                                               |

### Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| DPGDCHAR | 60         |           | 5     |
| DPGDELFL | 0          | 80        | 3     |
| FSAB     | 30         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| FSSB     | 0          |           | 1     |
| FSXB     | 4          |           | 3     |
| RESCHAR  | 55         |           | 3     |
| RESHALFW | 2          |           | 3     |
| SABOCCTK | 30         |           | 5     |
| SABOPRNR | 38         |           | 5     |
| SABOPRTK | 30         |           | 4     |
| SABRESRV | 3A         |           | 4     |
| SPBDATLT | 56         |           | 2     |
| SPBPRFX  | 0          |           | 2     |
| SPBRBN   | 28         |           | 3     |
| SPBTOTPG | 2C         |           | 3     |
| SSBCHARY | 60         |           | 4     |
| SSBDATA  | 60         |           | 3     |
| SSBEXENR | 5A         |           | 4     |
| SSBPAGDT | 58         |           | 2     |
| SSBPAGNR | 5E         |           | 4     |
| SSBPARG  | 5C         |           | 4     |
| SSBPRFX  | 58         |           | 3     |
| SSBSTRTY | 58         |           | 4     |
| SXBDAY   | 12         |           | 5     |
| SXBDSID  | 24         |           | 4     |
| SXBJOBDT | C          |           | 4     |
| SXBJOBID | 1C         |           | 4     |
| SXBJOBNM | 4          |           | 4     |
| SXBJOBTM | 14         |           | 4     |
| SXBMONTH | 10         |           | 5     |
| SXBYEAR  | C          |           | 5     |

## ID - Tracker identification record

### Example

Name : DCLID

Function:

This segment maps the identification data sent to the controller from a tracker system. The id event serves 4 purposes:

- acts as 'logon' data for tracker systems.
- propagates execution critical data (configuration) of the trk to con.
- reports on loss or activation of function in the tracker system.
- can perform pulse processing.

| Offsets |      |           |     |            |                                                      |
|---------|------|-----------|-----|------------|------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                          |
| 0       | (0)  | STRUCTURE | 50  | ID         | ID EVENT - MAX 50 BYTES                              |
| 0       | (0)  | CHARACTER | 2   | IDEYE      | EYE CATCHER FOR ID                                   |
| 2       | (2)  | CHARACTER | 2   | IDVER      | VERSION NUMBER OF ID EVENT                           |
| 4       | (4)  | CHARACTER | 8   | IDFMID     | FMID OR ACRONYM                                      |
| 12      | (C)  | CHARACTER | 2   | IDLEVEL    | SERVICE LEVEL                                        |
| 14      | (E)  | CHARACTER | 2   | IDTYPE     | TYPE OF ID EVENT WHEN SENT                           |
| 16      | (10) | CHARACTER | 16  | IDSYS      | OPERATING SYSTEM                                     |
| 16      | (10) | CHARACTER | 8   | IDSYSNAME  | NAME OF OPSYS FROM ..ID EVENT CONSTANTS              |
| 24      | (18) | CHARACTER | 8   | IDSYSLEV   | THE LEVEL OF OP SYS   BLANK ..FROM CVTPRODN FOR MVS™ |
| 32      | (20) | UNSIGNED  | 4   | IDLOG      | UNDOCUMENTED AREA                                    |
| 36      | (24) | BITSTRING | 2   | IDBITS     | SOME FLAGS                                           |
|         |      | 1... ..   |     | IDASCII    | ON: THIS IS AN ASCII SYS                             |
|         |      | .1.. ..   |     | IDINIT     | ON: SENT BY TRK START                                |
|         |      | ..1. .... |     | IDCONCON   | ON: ID CONFIRMED BY CON                              |
|         |      | ...1 .... |     | IDTRKCON   | ON: ID CONFIRMED BY TRK                              |
|         |      | .... 1... |     | IDTRKDEAD  | ON: TRACKER PULSE LOST                               |
|         |      | .... .1.. |     | IDDEADMSG  | ON: CARDIAC ARREST MSG DONE                          |

| Offsets |      |           |     |             |                                                         |
|---------|------|-----------|-----|-------------|---------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                             |
|         |      | .... ..1. |     | IDTRKPULSE  | ON: ID PULSED BY TRACKER OFF:<br>RETURNED BY CONTROLLER |
|         |      | .... ...1 |     | IDCONPULSE  | ON: ID PULSED BY CONTROLLER OFF:<br>RETURNED BY TRACKER |
| 37      | (25) | BITSTRING | 1   | UNKNOWNV1   | BITS NOT IN V1 MAP                                      |
|         |      | 1... .... |     | IDGSS       | 2 3RD PART AUTH FLAG                                    |
|         |      | .1.. .... |     | IDUNICODE   | 2 DATA IN UNICODE                                       |
|         |      | ..11 1111 |     | UNKNOWNV2   | 2 NOT IN V2 MAP                                         |
| 38      | (26) | CHARACTER | 8   | IDDEST      | DESTINATION NAME (ROUTEPTS)                             |
| 46      | (2E) | SIGNED    | 2   | IDCASTNUM   | DTB NUMBER FROM CONTROLLER                              |
| 48      | (30) | SIGNED    | 2   | IDPULSIVL   | PULSE RATE (IN MINUTES)                                 |
| 50      | (32) | CHARACTER |     | IDEND_LABEL | FIXED AREA END LABEL                                    |

| Offsets                                                             |     |           |     |             |               |
|---------------------------------------------------------------------|-----|-----------|-----|-------------|---------------|
| Dec                                                                 | Hex | Type      | Len | Name (Dim)  | Description   |
| 0                                                                   | (0) | STRUCTURE | 2   | IDALIGN     | ALIGN AREA    |
| 0                                                                   | (0) | CHARACTER | 2   | *           | ALIGN 2 BYTES |
| 2                                                                   | (2) | CHARACTER |     | IDALIGN_END | END LABEL     |
| ID - MVS™ TRACKER DATA AREA BASE ON IDEND_LABEL WHEN USED FROM MCA. |     |           |     |             |               |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 0       | (0)  | STRUCTURE | 100 | IDMVS      | MVS™ TRACKER ID DATA    |
| 0       | (0)  | CHARACTER | 16  | IDMESYS    | JOB ENTRY SUBSYSTEM     |
| 0       | (0)  | CHARACTER | 8   | IDMEFMID   | FMID OF THE JESX        |
| 8       | (8)  | CHARACTER | 1   | IDMEID     | ..FROM SSXJES, A/B      |
| 9       | (9)  | CHARACTER | 1   | IDMETYPEJ3 | ..JES3: G OR L          |
| 10      | (A)  | CHARACTER | 6   | *          | RESERVED                |
| 16      | (10) | CHARACTER | 8   | IDMNODE    | TRACKER'S NJE NODE NAME |

| Offsets                                                                                                                |      |           |     |              |                              |
|------------------------------------------------------------------------------------------------------------------------|------|-----------|-----|--------------|------------------------------|
| Dec                                                                                                                    | Hex  | Type      | Len | Name (Dim)   | Description                  |
| 24                                                                                                                     | (18) | CHARACTER | 4   | IDMSYSID     | SMF ID OF THIS SYSTEM        |
| BELOW FLAGS TO BE SET BY EACH FUNCTION/SUBTASK WHEN INITIALIZED AND RUNNING. THE ID EVENT SHOULD THEN BE QUEUED TO EW. |      |           |     |              |                              |
| 28                                                                                                                     | (1C) | BITSTRING | 4   | IDMFUNC      | FUNCTIONS IN TRK             |
| 28                                                                                                                     | (1C) | BITSTRING | 1   | IDMTASK      | - STARTED TASKS (I)          |
|                                                                                                                        |      | 1... ..   |     | IDMJCC       | ON: JCC ACTIVE               |
|                                                                                                                        |      | ..1. .... |     | IDMRODM      | ON: RODM TASK ACTIVE         |
|                                                                                                                        |      | ...1 .... |     | IDMSUBM      | ON: SUBMITTOR ACTIVE         |
|                                                                                                                        |      | .... .111 |     | *            | RESERVED                     |
| 29                                                                                                                     | (1D) | BITSTRING | 1   | *            | CATM FUNCTION BITS           |
| 30                                                                                                                     | (1E) | BITSTRING | 1   | IDMTRACK     | SOME JOB TRACKING            |
|                                                                                                                        |      | 1... ..   |     | IDMSTEPALL   | ON: STEPEVENTS(ALL)          |
|                                                                                                                        |      | ..1. .... |     | IDMSTEPNZERO | ON: STEPEVENTS(NZERO)        |
|                                                                                                                        |      | ...1 .... |     | IDMJOBHOLD   | ON: HOLD ALL JOBS            |
|                                                                                                                        |      | .... 1111 |     | IDMJOBHOLD   | ON: HOLDJOB(USER)            |
|                                                                                                                        |      | .... 1111 |     | *            | RESERVED                     |
| 31                                                                                                                     | (1F) | BITSTRING | 1   | IDMF4        | RESERVED                     |
| 31                                                                                                                     | (1F) | BITSTRING | 1   | *            | RESERVED                     |
| 32                                                                                                                     | (20) | BITSTRING | 4   | IDMFUNC2     | RESERVED: MORE FUNCTION BITS |
| 36                                                                                                                     | (24) | CHARACTER | 32  | IDMDATA      | FUNCTION DATA                |
| 36                                                                                                                     | (24) | CHARACTER | 4   | IDMSUBS      | NAME OF TRACKER SUBSYSTEM    |
| 40                                                                                                                     | (28) | CHARACTER | 1   | IDMEWRET     | RETCODE(HIGH   LAST)         |
| 41                                                                                                                     | (29) | CHARACTER | 1   | IDMPTREV     | PRINTEVENTS(NO   ALL   END)  |
| 68                                                                                                                     | (44) | CHARACTER | 32  | IDMDATA2     | SECOND DATA PORTION          |
| 68                                                                                                                     | (44) | CHARACTER | 8   | IDCONSTAMP   | TIME IN GMT BIN..            |
| 68                                                                                                                     | (44) | CHARACTER | 4   | IDCONDAT     | DATE OF CONTROLLER CONFIRM   |
| 72                                                                                                                     | (48) | CHARACTER | 4   | IDCONTIME    | TIME OF ...                  |

| Offsets                     |      |           |     |             |                           |
|-----------------------------|------|-----------|-----|-------------|---------------------------|
| Dec                         | Hex  | Type      | Len | Name (Dim)  | Description               |
| 100                         | (64) | CHARACTER |     | IDMVS_END01 | LABEL FOR V01 END ADDRESS |
| ID - AIX® TRACKER DATA AREA |      |           |     |             |                           |

| Offsets                    |      |           |     |              |                             |
|----------------------------|------|-----------|-----|--------------|-----------------------------|
| Dec                        | Hex  | Type      | Len | Name (Dim)   | Description                 |
| 0                          | (0)  | STRUCTURE | 80  | IDAIX        | AIX® TRACKER ID DATA        |
| 0                          | (0)  | CHARACTER | 32  | IDAIP        | IP ADDRESS OF JOBSUB SERVER |
| 32                         | (20) | UNSIGNED  | 4   | IDAPORT      | ..AND PORT NUMBER OF IT     |
| 36                         | (24) | CHARACTER | 8   | IDACODEPAGE  | CONTROLLER CODE PAGE        |
| FUNCTION FLAGS AND OPTIONS |      |           |     |              |                             |
| 44                         | (2C) | BITSTRING | 4   | IDAFUNC      | FUNCTIONS ACTIVE IN TRK     |
| 44                         | (2C) | BITSTRING | 1   | IDAF1        |                             |
|                            |      | 1... .... |     | IDAAPILL     | ON: LOADLEV API ACTIVE      |
|                            |      | .1.. .... |     | IDANOJOBLOG  | ON: NO JOBLOG SUPPORT       |
|                            |      | ..1. .... |     | IDAJOBLOGIMD | ON: JOBLOG IMMED            |
|                            |      | ...1 .... |     | IDAEVM       | 2 ON: EVM ACTIVE            |
|                            |      | .... 1111 |     | *            | RESERVED                    |
| 45                         | (2D) | BITSTRING | 1   | IDAF2        | RESERVED                    |
| 45                         | (2D) | BITSTRING | 1   | *            |                             |
| 46                         | (2E) | BITSTRING | 1   | IDAF3        | RESERVED                    |
| 46                         | (2E) | BITSTRING | 1   | *            |                             |
| 47                         | (2F) | BITSTRING | 1   | IDAF4        | RESERVED                    |
| 47                         | (2F) | BITSTRING | 1   | *            |                             |
| 48                         | (30) | SIGNED    | 4   | IDANUMSUB    | NUMBER OF SUBMITTOR PROCS   |
| 52                         | (34) | CHARACTER | 8   | IDALLLEVEL   | 2 LOADLEVELER LEVEL   BLNK  |
| 60                         | (3C) | CHARACTER | 8   | IDAGSSLEVEL  | 2 GSS-API LEVEL   BLNK      |
| 68                         | (44) | CHARACTER | 12  | *            | RESERVED                    |
| 80                         | (50) | CHARACTER |     | IDAIX_END01  | LABEL FOR V02 END ADDRESS   |

| Offsets                        |     |      |     |            |             |
|--------------------------------|-----|------|-----|------------|-------------|
| Dec                            | Hex | Type | Len | Name (Dim) | Description |
| ID - OS/400® TRACKER DATA AREA |     |      |     |            |             |

| Offsets                                                  |      |           |     |             |                           |
|----------------------------------------------------------|------|-----------|-----|-------------|---------------------------|
| Dec                                                      | Hex  | Type      | Len | Name (Dim)  | Description               |
| 0                                                        | (0)  | STRUCTURE | 68  | ID400       | OS/400® TRACKER ID DATA   |
| 0                                                        | (0)  | BITSTRING | 4   | ID4FUNC     | FUNCTIONS ACTIVE IN TRK   |
| 4                                                        | (4)  | CHARACTER | 64  | ID4         | ...<TOBEDETERMINED>       |
| 68                                                       | (44) | CHARACTER |     | ID400_END01 | LABEL FOR V01 END ADDRESS |
| XWA- ID - OS/2 AND WIN NT TRACKER DATA AREA (WORKGROUPS) |      |           |     |             |                           |

| Offsets |      |           |     |             |                       |
|---------|------|-----------|-----|-------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description           |
| 0       | (0)  | STRUCTURE | 76  | IDAWG       | AIX® TRACKER ID DATA  |
| 0       | (0)  | CHARACTER | 32  | IDWIP       | IP ADDRESS OF TRACKER |
| 32      | (20) | UNSIGNED  | 4   | IDWPORT     | ..AND PORT NUMBER     |
| 36      | (24) | CHARACTER | 8   | IDWCODEPAGE | CONTROLLER CODE PAGE  |
| 44      | (2C) | CHARACTER | 32  | IDWGF       | RESERVED              |

ID - FUNCTION LOSS DATA AREA NOTE: ALL FLOSSTYPE BITS SHOULD SET 'OFF' FOR MVS™ SUBTASK FAILURE/STOP.

| Offsets |      |           |     |             |                                                                            |
|---------|------|-----------|-----|-------------|----------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                                |
| 0       | (0)  | STRUCTURE | 48  | IDFROST     | FUNCTION ARE LOST                                                          |
| 0       | (0)  | CHARACTER | 16  | IDFLOSS     | NAME OF (FROM STBNAME)                                                     |
| 16      | (10) | BITSTRING | 4   | IDFLOSSTYPE | 2 FUNCTION LOSS TYPE                                                       |
|         |      | 1... ..   |     | IDCODEPAGE  | 2 ON: CODEPAGE IN IDFLOSS 2 USED<br>INSTEAD ON CON 2 REQUESTED<br>CODEPAGE |
|         |      | .1.. ..   |     | IDNOPULSE   | 2 ON: CANNOT DO PULSE PROC 2<br>IDFLOSS = 'PULSE'                          |
| 20      | (14) | CHARACTER | 28  | *           | RESERVED                                                                   |



| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 48      | (30) | CHARACTER |     | IDFL_END01 | LABEL FOR V01 END ADDRESS |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| ID           | 0          |           | 1     |
| IDAAPILL     | 2C         | 80        | 4     |
| IDACODEPAGE  | 24         |           | 2     |
| IDAEVM       | 2C         | 10        | 4     |
| IDAFUNC      | 2C         |           | 2     |
| IDAF1        | 2C         |           | 3     |
| IDAF2        | 2D         |           | 3     |
| IDAF3        | 2E         |           | 3     |
| IDAF4        | 2F         |           | 3     |
| IDAGSSLEVEL  | 3C         |           | 2     |
| IDAIP        | 0          |           | 2     |
| IDAIX        | 0          |           | 1     |
| IDAIX_END01  | 50         |           | 2     |
| IDAJOBLOGIMD | 2C         | 20        | 4     |
| IDALIGN      | 0          |           | 1     |
| IDALIGN_END  | 2          |           | 2     |
| IDALLLEVEL   | 34         |           | 2     |
| IDANOJOBLOG  | 2C         | 40        | 4     |
| IDANUMSUB    | 30         |           | 2     |
| IDAPORT      | 20         |           | 2     |
| IDASCII      | 24         | 80        | 3     |
| IDAWG        | 0          |           | 1     |
| IDBITS       | 24         |           | 2     |
| IDCASTNUM    | 2E         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| IDCODEPAGE  | 10         | 80        | 3     |
| IDCONCON    | 24         | 20        | 3     |
| IDCONDATE   | 44         |           | 4     |
| IDCONPULSE  | 24         | 01        | 3     |
| IDCONSTAMP  | 44         |           | 3     |
| IDCONTIME   | 48         |           | 4     |
| IDDEADMSG   | 24         | 04        | 3     |
| IDDEST      | 26         |           | 2     |
| IDEND_LABEL | 32         |           | 2     |
| IDEYE       | 0          |           | 2     |
| IDFL_END01  | 30         |           | 2     |
| IDFLOSS     | 0          |           | 2     |
| IDFLOSSTYPE | 10         |           | 2     |
| IDFMID      | 4          |           | 2     |
| IDFROST     | 0          |           | 1     |
| IDGSS       | 25         | 80        | 4     |
| IDINIT      | 24         | 40        | 3     |
| IDLEVEL     | C          |           | 2     |
| IDLOG       | 20         |           | 2     |
| IDMDATA     | 24         |           | 2     |
| IDMDATA2    | 44         |           | 2     |
| IDMEFMID    | 0          |           | 3     |
| IDMEID      | 8          |           | 3     |
| IDMESYS     | 0          |           | 2     |
| IDMETYPEJ3  | 9          |           | 3     |
| IDMEWRET    | 28         |           | 3     |
| IDMFUNC     | 1C         |           | 2     |
| IDMFUNC2    | 20         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| IDMF4        | 1F         |           | 3     |
| IDMJCC       | 1C         | 80        | 4     |
| IDMJOBHOLD   | 1E         | 20        | 4     |
| IDMJOBHOLD   | 1E         | 10        | 4     |
| IDMNODE      | 10         |           | 2     |
| IDMPTRV      | 29         |           | 3     |
| IDMRODM      | 1C         | 20        | 4     |
| IDMSTEPALL   | 1E         | 80        | 4     |
| IDMSTEPNZERO | 1E         | 40        | 4     |
| IDMSUBM      | 1C         | 10        | 4     |
| IDMSUBS      | 24         |           | 3     |
| IDMSYSID     | 18         |           | 2     |
| IDMTASK      | 1C         |           | 3     |
| IDMTRACK     | 1E         |           | 3     |
| IDMVS        | 0          |           | 1     |
| IDMVS_END01  | 64         |           | 2     |
| IDNOPULSE    | 10         | 40        | 3     |
| IDPULSIVL    | 30         |           | 2     |
| IDSYS        | 10         |           | 2     |
| IDSYSLEV     | 18         |           | 3     |
| IDSYSNAME    | 10         |           | 3     |
| IDTRKCON     | 24         | 10        | 3     |
| IDTRKDEAD    | 24         | 08        | 3     |
| IDTRKPULSE   | 24         | 02        | 3     |
| IDTYPE       | E          |           | 2     |
| IDUNICODE    | 25         | 40        | 4     |
| IDVER        | 2          |           | 2     |
| IDWCODEPAGE  | 24         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| IDWGF       | 2C         |           | 2     |
| IDWIP       | 0          |           | 2     |
| IDWPORT     | 20         |           | 2     |
| ID4         | 4          |           | 2     |
| ID4FUNC     | 0          |           | 2     |
| ID400       | 0          |           | 1     |
| ID400_END01 | 44         |           | 2     |
| UNKNOWNV1   | 25         |           | 3     |
| UNKNOWNV2   | 25         | 3F        | 4     |

## JCLREC - Common data of JCL record

### Example

Name : DCLJCL

Function:

This segment declares a JCL record in the JCL repository, physically located in EQQJS1DS and EQQJS2DS.

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 0       | (0)  | STRUCTURE | *   | JCLREC     |                             |
| 0       | (0)  | CHARACTER | 80  | JCLBDY     | FIXED PART OF JCL RECORD    |
| 0       | (0)  | CHARACTER | 28  | JCLKEY     |                             |
| 0       | (0)  | CHARACTER | 16  | JCLADID    | APPLICATION NAME            |
| 16      | (10) | CHARACTER | 10  | JCLIA      | OCC INPUT ARRIVAL DATE+TIME |
| 16      | (10) | CHARACTER | 6   | JCLIAT1    | DATE                        |
| 22      | (16) | CHARACTER | 4   | JCLIAT2    | TIME                        |
| 26      | (1A) | SIGNED    | 2   | JCLOPNUM   | OPERATION NUMBER            |
| 28      | (1C) | CHARACTER | 4   | JCLEYE     | EYE CATCHER                 |
| 32      | (20) | UNSIGNED  | 1   | JCLVERS    | VERSION NUMBER              |
| 33      | (21) | CHARACTER | 1   | *          | FREE                        |

| Offsets |      |           |     |            |                                                       |
|---------|------|-----------|-----|------------|-------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                           |
| 34      | (22) | CHARACTER | 8   | JCLJOBNM   | JOBNAME                                               |
| 42      | (2A) | CHARACTER | 4   | JCLWSN     | WORK STATION NAME                                     |
| 46      | (2E) | CHARACTER | 10  | JCLUPDAT   | LAST UPDATE, DATE+TIME                                |
| 46      | (2E) | CHARACTER | 6   | JCLUPDT1   | DATE                                                  |
| 52      | (34) | CHARACTER | 4   | JCLUPDT2   | TIME                                                  |
| 56      | (38) | CHARACTER | 8   | JCLUSER    | LAST UPDATE, USERID                                   |
| 64      | (40) | CHARACTER | 1   | JCLUPTYP   | UPDATING FUNCTION: L: LTP W: WSD R: READY LIST M: MCP |
| 65      | (41) | CHARACTER | 1   | JCLSTAT    | OP. STATUS: S:SUB:ED V:SAVED T:TSAVED                 |
| 66      | (42) | UNSIGNED  | 2   | JCLLINES   | NO OF LINES IN RECORD                                 |
| 68      | (44) | CHARACTER | 1   | JCLFLAGS   | FLAGBYTE                                              |
|         |      | 1... ..   |     | JCLJSFND   | ON = JCL READ FROM JS                                 |
|         |      | .1... ..  |     | JCLEITD    | ONCE BEEN EDITED                                      |
|         |      | ..11 1111 |     | *          | NOT USED                                              |
| 69      | (45) | CHARACTER | 1   | *          | FREE                                                  |
| 70      | (46) | SIGNED    | 2   | JCLVLINE   | NUMBER OF VARIABLES                                   |
| 72      | (48) | SIGNED    | 4   | JCLSUBP    | SUBPOOL FOR FREEMAIN                                  |
| 76      | (4C) | CHARACTER | 4   | *          | FREE                                                  |
| 80      | (50) | CHARACTER | 80  | JCLTAB (*) | JCL RECORDS                                           |
| 80      | (50) | CHARACTER | 72  | JCLTEXT    | COL 1-72 OF THE JCL RECORD                            |
| 152     | (98) | CHARACTER | 8   | JCLLNNO    | COL 73-80 OF THE JCL RECORD                           |

| Offsets |     |           |     |             |                     |
|---------|-----|-----------|-----|-------------|---------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description         |
| 0       | (0) | STRUCTURE | 80  | JCLVTAB (*) |                     |
| 0       | (0) | CHARACTER | 80  | JCLV        |                     |
| 0       | (0) | CHARACTER | 8   | JCLVNAME    | VARIABLE NAME       |
| 8       | (8) | CHARACTER | 16  | JCLVTNAM    | VARIABLE TABLE NAME |

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 24      | (18) | CHARACTER | 1   | JCLVTYPE   | P = PROMPT, Y= SETUP,N=SUB  |
| 25      | (19) | CHARACTER | 1   | JCLVSET    | E(XIT),D(EFAULT),P(REP),VAR |
| 26      | (1A) | CHARACTER | 8   | JCLVUSER   | USER ID                     |
| 26      | (1A) | CHARACTER | 8   | JCLVEXIT   | EXIT NAME                   |
| 26      | (1A) | CHARACTER | 8   | JCLVSNAM   | SETTING VARIABLE NAME       |
| 34      | (22) | CHARACTER | 44  | JCLVVAL    | VARIABLE VALUE SET          |
| 78      | (4E) | SIGNED    | 2   | JCLVLGT    | LENGTH OF VALUE             |

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 0       | (0)  | CHARACTER | 48  | JCLOPINF   |                       |
| 0       | (0)  | CHARACTER | 4   | JCLOPEYE   | EYE CATCHER           |
| 4       | (4)  | UNSIGNED  | 2   | JCLOPLEN   | LENGTH                |
| 6       | (6)  | UNSIGNED  | 1   | JCLOPVER   | VERSION NUMBER        |
| 7       | (7)  | CHARACTER | 1   | JCOPFLAG   | FLAG BYTE             |
|         |      | 1... .... |     |            | ON = HOLDUNTIL ACTIVE |
|         |      | .1.. .... |     |            | ON = DEADLINE ACTIVE  |
|         |      | ..1. .... |     |            | ON = JOBTOKEN ACTIVE  |
|         |      | ..1. 1111 |     | *          | NOT USED              |
| 8       | (8)  | CHARACTER | 8   | JOBTOKEN   | JOB TOKEN             |
| 16      | (10) | CHARACTER | 6   | JCLOPIAD   | IA DATE               |
| 22      | (16) | CHARACTER | 4   | JCLOPIAT   | IA TIME               |
| 26      | (1A) | CHARACTER | 6   | *          | NOT USED              |
| 32      | (20) | CHARACTER | 6   | JCLOPDDD   | DEADLINE DATE         |
| 38      | (26) | CHARACTER | 4   | JCLOPDDT   | DEADLINE TIME         |
| 42      | (2A) | CHARACTER | 6   | *          | NOT USED              |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| JCLADID  | 0          |           | 4     |
| JCLBDY   | 0          |           | 2     |
| JCLEITD  | 44         | 40        | 4     |
| JCLEYE   | 1C         |           | 3     |
| JCLFLAGS | 44         |           | 3     |
| JCLIA    | 10         |           | 4     |
| JCLIAT1  | 10         |           | 5     |
| JCLIAT2  | 16         |           | 5     |
| JCLJOBNM | 22         |           | 3     |
| JCLJSFND | 44         | 80        | 4     |
| JCLKEY   | 0          |           | 3     |
| JCLLINES | 42         |           | 3     |
| JCLLNNO  | 98         |           | 3     |
| JCLOPNUM | 1A         |           | 4     |
| JCLREC   | 0          |           | 1     |
| JCLSTAT  | 41         |           | 3     |
| JCLSUBP  | 48         |           | 3     |
| JCLTAB   | 50         |           | 2     |
| JCLTEXT  | 50         |           | 3     |
| JCLUPDAT | 2E         |           | 3     |
| JCLUPDT1 | 2E         |           | 4     |
| JCLUPDT2 | 34         |           | 4     |
| JCLUPTYP | 40         |           | 3     |
| JCLUSER  | 38         |           | 3     |
| JCLV     | 0          |           | 2     |
| JCLVERS  | 20         |           | 3     |
| JCLVEXIT | 1A         |           | 4     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| JCLVLGT  | 4E         |           | 3     |
| JCLVLINE | 46         |           | 3     |
| JCLVNAME | 0          |           | 3     |
| JCLVSET  | 19         |           | 3     |
| JCLVSNAM | 1A         |           | 5     |
| JCLVTAB  | 0          |           | 1     |
| JCLVTNAM | 8          |           | 3     |
| JCLVTYPE | 18         |           | 3     |
| JCLVUSER | 1A         |           | 3     |
| JCLVVAL  | 22         |           | 3     |
| JCLWSN   | 2A         |           | 3     |

## JSLOG - Job-log record in EQQJSXDS

### Example

Name : DCLJSLOG

Function:

This segment declares the sysout passed to a controller from jcc subtask, as it is stored in the JS data set. If more than one record is required to store the information, a subsequent record is created, and a flag is set in the forgoing record.

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 0       | (0)  | STRUCTURE | 147 | JSLOG      |                          |
| 0       | (0)  | CHARACTER | 28  | JSLOGKEY   | KEY OF RECORD IN JS      |
| 0       | (0)  | CHARACTER | 2   | JSTYPE     | TYPE (=14)               |
| 2       | (2)  | CHARACTER | 16  | JSLOGAID   | APPLICATION ID           |
| 18      | (12) | CHARACTER | 8   | JSLOGIA    | OCCURRENCE INPUT ARRIVAL |
| 18      | (12) | SIGNED    | 4   | JSLOGIADF  | TREATED AS BINARY        |
| 18      | (12) | CHARACTER | 4   | JSLOGIAD   | IA@ DATE IN BINARY       |
| 22      | (16) | SIGNED    | 4   | JSLOGIATF  | TREATED AS BINARY        |



| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 22      | (16) | CHARACTER | 4   | JSLOGIAT   | IA@ TIME IN BINARY          |
| 26      | (1A) | UNSIGNED  | 1   | JSLOGOPN   | OPERATION NUMBER            |
| 27      | (1B) | UNSIGNED  | 1   | JSLOGSEQ   | SEQUENCE #, 1 REC = 01      |
| 28      | (1C) | CHARACTER | 1   | JSLOGMORE  | IF MORE RECORD FOR OPER = Y |
| 29      | (1D) | CHARACTER | 2   | JSLOGVERS  | RECORD VERSION              |
| 31      | (1F) | CHARACTER | 1   | *          | NOT USED                    |
| 32      | (20) | SIGNED    | 4   | JSLOGSZ    | SIZE OF RECORD              |
| 36      | (24) | CHARACTER | 111 | JSLOG14REC | COPY OF CP14 HEADER INFO    |
| 36      | (24) | CHARACTER | 8   | JSLOG14KEY | COPY OF CP14 KEY AREA       |
| 44      | (2C) | CHARACTER | 85  | JSLOG14BDY | COPY OF CP14 BODY +4        |
| 129     | (81) | CHARACTER | 2   | *          | STATUS                      |
| 131     | (83) | CHARACTER | 16  | JSLOGST    | STATUS                      |
| 147     | (93) | CHARACTER |     | JSLOGDATA  | DATA PORTION (COMPRESSED)   |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| JSLOG     | 0          |           | 1     |
| JSLOGAID  | 2          |           | 3     |
| JSLOGDATA | 93         |           | 2     |
| JSLOGIA   | 12         |           | 3     |
| JSLOGIAD  | 12         |           | 5     |
| JSLOGIADF | 12         |           | 4     |
| JSLOGIAT  | 16         |           | 5     |
| JSLOGIATF | 16         |           | 4     |
| JSLOGKEY  | 0          |           | 2     |
| JSLOGMORE | 1C         |           | 2     |
| JSLOGOPN  | 1A         |           | 3     |
| JSLOGSEQ  | 1B         |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| JSLOGST    | 83         |           | 3     |
| JSLOGSZ    | 20         |           | 2     |
| JSLOGVERS  | 1D         |           | 2     |
| JSLOG14BDY | 2C         |           | 3     |
| JSLOG14KEY | 24         |           | 3     |
| JSLOG14REC | 24         |           | 2     |
| JSTYPE     | 0          |           | 3     |

## JV - JCL variable table

### Example

Name : DCLJV

Function:

This segment defines the layout of a JCL variable table, in the JV logical file,  
physically located in EQQADDS

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | *   | JV         | JCL VARIABLE TABLE        |
| 0       | (0)  | CHARACTER | 98  | JVCOMMON   | IDENTIFIER                |
| 0       | (0)  | CHARACTER | 2   | *          | RESERVED FOR VSAM MODS/02 |
| 2       | (2)  | CHARACTER | 23  | JVKEY      | KEY OF RECORD TABLE       |
| 2       | (2)  | CHARACTER | 16  | JVTABLE    | JCL VARIABLE TABLE ID     |
| 18      | (12) | CHARACTER | 7   | *          | ALWAYS BLANK              |
| 25      | (19) | CHARACTER | 1   | *          | NOT USED                  |
| 26      | (1A) | CHARACTER | 8   | JVLU       | LAST UPDATING USER        |
| 34      | (22) | CHARACTER | 4   | JVLT       | LAST UPDATE TIME HHMM     |
| 38      | (26) | CHARACTER | 6   | JVLD       | LAST UPDATE DATE YYMMDD   |
| 44      | (2C) | CHARACTER | 24  | JVDES      | TABLE DESCRIPTION         |
| 68      | (44) | SIGNED    | 2   | JV#VAR     | NUMBER OF VARS IN TABLE   |
| 70      | (46) | CHARACTER | 16  | JVOWN      | OWNER ID                  |

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 86      | (56) | CHARACTER | 2   | *          | NOT USED               |
| 88      | (58) | CHARACTER | 8   | JVLUTS     | LAST UPDATE TIMESTAMP  |
| 96      | (60) | CHARACTER | 2   | *          | NOT USED               |
| 98      | (62) | CHARACTER | *   | JVARSECT   | VARIABLE PART OF TABLE |

| Offsets |       |           |     |            |                           |
|---------|-------|-----------|-----|------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description               |
| 0       | (0)   | STRUCTURE | 476 | JVTAB      | JCL VAR TABLE, VAR PART   |
| 0       | (0)   | CHARACTER | 8   | JVVAR      | JCL VARIABLE NAME         |
| 8       | (8)   | CHARACTER | 44  | JVDFL      | JCL VARIABLE DEF VALUE    |
| 52      | (34)  | CHARACTER | 1   | JVUC       | Y = UPPERCASE, N=MIXED    |
| 53      | (35)  | CHARACTER | 1   | JVSTP      | PROMPT / SETUP / SUBMIT   |
| 54      | (36)  | SIGNED    | 2   | JVLG       | VALUE LENGTH              |
| 56      | (38)  | CHARACTER | 7   | JVTYP      | VERIFICATION TYPE         |
| 63      | (3F)  | CHARACTER | 8   | JVEX       | SUBSTITUTION EXIT NAME    |
| 71      | (47)  | CHARACTER | 1   | JVINP      | INPUT REQUIRED            |
| 72      | (48)  | SIGNED    | 2   | JVPOS      | REPLACE POSITION JCL DATA |
| 74      | (4A)  | CHARACTER | 1   | JVNUM      | NUMERIC                   |
| 75      | (4B)  | CHARACTER | 2   | JVCMP      | COMPARISON OPERATOR       |
| 77      | (4D)  | CHARACTER | 44  | JVPAT      | VALIDATION PATTERN        |
| 121     | (79)  | CHARACTER | 102 | JVVLD      | VALID VALUES              |
| 121     | (79)  | CHARACTER | 51  | JVVLD1     | FIRST LINE                |
| 172     | (AC)  | CHARACTER | 51  | JVVLD2     | SECOND LINE               |
| 223     | (DF)  | CHARACTER | 204 | JVTXT      | DIALOG TEXT               |
| 427     | (1AB) | CHARACTER | 20  | JVTDES     | DESCRIPTION               |
| 447     | (1BF) | CHARACTER | 1   | *          | RESERVED                  |
| 448     | (1C0) | SIGNED    | 2   | JVNRP      | NUMBER OF DEP VALUES      |
| 450     | (1C2) | CHARACTER | 8   | JVIND      | INDEPENDENT VARIABLE NAME |

| Offsets |       |           |     |            |                          |
|---------|-------|-----------|-----|------------|--------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description              |
| 458     | (1CA) | CHARACTER | 2   | JVVERS     | VERSION NUMBER           |
| 460     | (1CC) | CHARACTER | 2   | JVSUBS     | SUBSTRING START POSITION |
| 462     | (1CE) | CHARACTER | 2   | JVSUBL     | SUBSTRING LENGTH         |
| 464     | (1D0) | CHARACTER | 12  | *          | RESERVED                 |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 88  | JVD        | DEPENDENCIES              |
| 0       | (0)  | CHARACTER | 44  | JVDIV      | VALUE OF SETTING VARIABLE |
| 44      | (2C) | CHARACTER | 44  | JVDDV      | DEPENDENT VARIABLE VALUE  |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| JV       | 0          |           | 1     |
| JV#VAR   | 44         |           | 3     |
| JVARSECT | 62         |           | 2     |
| JVCMP    | 4B         |           | 2     |
| JVCOMMON | 0          |           | 2     |
| JVD      | 0          |           | 1     |
| JVDDV    | 2C         |           | 2     |
| JVDES    | 2C         |           | 3     |
| JVDFL    | 8          |           | 2     |
| JVDIV    | 0          |           | 2     |
| JVEX     | 3F         |           | 2     |
| JVIND    | 1C2        |           | 2     |
| JVINP    | 47         |           | 2     |
| JVKEY    | 2          |           | 3     |
| JVLD     | 26         |           | 3     |

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| JVLG    | 36         |           | 2     |
| JVLT    | 22         |           | 3     |
| JVLU    | 1A         |           | 3     |
| JVLUTS  | 58         |           | 3     |
| JVNRP   | 1C0        |           | 2     |
| JVNUM   | 4A         |           | 2     |
| JVOWN   | 46         |           | 3     |
| JVPAT   | 4D         |           | 2     |
| JVPOS   | 48         |           | 2     |
| JVSTP   | 35         |           | 2     |
| JVSUBL  | 1CE        |           | 2     |
| JVSUBS  | 1CC        |           | 2     |
| JVTAB   | 0          |           | 1     |
| JVTABLE | 2          |           | 4     |
| JVTDES  | 1AB        |           | 2     |
| JVTXT   | DF         |           | 2     |
| JVTYP   | 38         |           | 2     |
| JVUC    | 34         |           | 2     |
| JVVAR   | 0          |           | 2     |
| JVVERS  | 1CA        |           | 2     |
| JVVLD   | 79         |           | 2     |
| JVVLD1  | 79         |           | 3     |
| JVVLD2  | AC         |           | 3     |

LTP - Long-term plan

**Example**

Name : DCLLTP

Function:

This is the long-term plan record layout. The main type is declared as LTP.

The second type of record is the header record.

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 0       | (0)  | STRUCTURE | *   | LTP        |                            |
| 0       | (0)  | CHARACTER | 192 | LTPDP      |                            |
| 0       | (0)  | CHARACTER | 2   | *          | reserved by io-routines    |
| 2       | (2)  | CHARACTER | 26  | LTPKEY     |                            |
| 2       | (2)  | CHARACTER | 6   | LTPRDAY    | run date ===key            |
| 8       | (8)  | CHARACTER | 16  | LTPAID     | application name ===key    |
| 24      | (18) | CHARACTER | 4   | LTPSTIME   | input arrival time===key   |
| 28      | (1C) | CHARACTER | 4   | LTPEYE     | ltp eye catcher            |
| 32      | (20) | UNSIGNED  | 1   | LTPVERS    | ltp version number         |
| 33      | (21) | CHARACTER | 8   | LTPAUTH    | authority group            |
| 41      | (29) | CHARACTER | 16  | LTPOWNER   | application owner id       |
| 57      | (39) | CHARACTER | 10  | LTPORIA    | original input arrival     |
| 57      | (39) | CHARACTER | 6   | LTPORDAY   | original run date          |
| 63      | (3F) | CHARACTER | 4   | LTPORTIM   | original ia time           |
| 67      | (43) | CHARACTER | 10  | LTPDEADL   | occurrence deadline        |
| 67      | (43) | CHARACTER | 6   | LTPDDAY    | deadline date              |
| 73      | (49) | CHARACTER | 4   | LTPDTIME   | deadline time              |
| 77      | (4D) | CHARACTER | 1   | LTPPRT     | priority                   |
| 78      | (4E) | CHARACTER | 4   | LTPERCOD   | error code                 |
| 82      | (52) | CHARACTER | 1   | LTPADM     | flags set by online ltp    |
|         |      | 1... ..   |     | LTPDEL     | marked 'DELETED' by online |
|         |      | .1.. ..   |     | LTPADD     | added by online function   |
|         |      | ..1. .... |     | LTPMOD     | occ. modified online       |
|         |      | ...1 .... |     | LTPMOV     | rundatetime modified=move  |

| Offsets |      |           |     |             |                            |
|---------|------|-----------|-----|-------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                |
|         |      | .... 1... |     | LTPDEPCH    | dependency changed manual  |
|         |      | .... .1.. |     | LTPCOMPL    | occurrence completed in jt |
|         |      | .... ..11 |     | *           |                            |
| 83      | (53) | CHARACTER | 1   | LTPFLGS     |                            |
|         |      | 1... .... |     | LTPOPTRU    | moved due to optional rule |
|         |      | .1.. .... |     | LTPEXPRES   | external predecessor       |
|         |      | ..11 1111 |     | *           | free to use                |
| 84      | (54) | SIGNED    | 4   | LTPPRED     | number of external preds   |
| 88      | (58) | SIGNED    | 4   | LTPSUCC     | number of external succs   |
| 92      | (5C) | SIGNED    | 4   | LTPCHOP     | number of changed ops      |
| 96      | (60) | CHARACTER | 1   | LTPDSTAT    | runday status              |
| 97      | (61) | CHARACTER | 16  | LTPJVTAB    | variable table name        |
| 113     | (71) | CHARACTER | 1   | *           | free                       |
| 114     | (72) | CHARACTER | 16  | LTPGROUPID  | group application id       |
| 130     | (82) | CHARACTER | 16  | LTPCAL      | calendar name              |
| 146     | (92) | CHARACTER | 8   | LTPLOTS     | last update timestamp      |
| 154     | (9A) | SIGNED    | 2   | LTPRUNID    | run cycle id               |
| 156     | (9C) | SIGNED    | 4   | LTPCONDPRED | num of ext cond preds      |
| 160     | (A0) | SIGNED    | 4   | LTPCONDSUCC | num of ext cond succs      |
| 164     | (A4) | SIGNED    | 4   | LTPPNDPRED  | num mand. pending pred     |
| 168     | (A8) | CHARACTER | 8   | LTPFILLER   | free                       |
| 176     | (B0) | CHARACTER | *   | LTPVARS     | variable section           |

LTP occurrence predecessors variable part

| Offsets |      |           |     |             |                           |
|---------|------|-----------|-----|-------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description               |
| 176     | (B0) | STRUCTURE | *   | LTPPREDS    | the predecessor sections  |
| 176     | (B0) | CHARACTER | 35  | LTPPRED (*) |                           |
| 176     | (B0) | CHARACTER | 27  | LTPPREDI    | predecessor id part       |
| 176     | (B0) | CHARACTER | 26  | LTPPRID     | predecessor key part      |
| 176     | (B0) | CHARACTER | 6   | LTPPRDAY    | run date                  |
| 182     | (B6) | CHARACTER | 16  | LTPPAID     | application name          |
| 198     | (C6) | CHARACTER | 4   | LTPPIAT     | input arrival time        |
| 202     | (CA) | CHARACTER | 1   | LTPPFLGS    | pred dependency flags     |
|         |      | 1... .... |     | LTPPDEL     | dependency deleted        |
|         |      | .1.. .... |     | LTPPAD      | dependency manually added |
|         |      | ..1. .... |     | LTPPDONE    | predecessor has completed |
|         |      | ...1 .... |     | LTPMANDPEND | is mandatory pending      |
|         |      | .... 1111 |     | *           | free to use               |
| 203     | (CB) | CHARACTER | 1   | LTPPEYE     | eye catcher 'P'           |
| 204     | (CC) | CHARACTER | 1   | LTPPPRMAND  | PCN                       |
| 205     | (CD) | CHARACTER | 6   | *           | free to use               |

## LTP occurrence predecessors variable part

| Offsets |     |           |     |             |                     |
|---------|-----|-----------|-----|-------------|---------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description         |
| 0       | (0) | STRUCTURE | *   | LTPSUCCS    |                     |
| 0       | (0) | CHARACTER | 35  | LTPSUCC (*) | a successor section |
| 0       | (0) | CHARACTER | 27  | LTPSUCCI    | successor id part   |
| 0       | (0) | CHARACTER | 26  | LTPSUID     | successor key part  |
| 0       | (0) | CHARACTER | 6   | LTPSRDAY    | run date            |
| 6       | (6) | CHARACTER | 16  | LTPSAID     | application name    |



| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 22      | (16) | CHARACTER | 4   | LTPSIAT    | input arrival time        |
| 26      | (1A) | CHARACTER | 1   | LTPSFLGS   | succ dependency flags     |
|         |      | 1... ..   |     | LTPSDEL    | dependency deleted        |
|         |      | .1.. ..   |     | LTPSADD    | dependency manually added |
|         |      | ..11 1111 |     | *          | free to use               |
| 27      | (1B) | CHARACTER | 1   | LTPSEYE    | eye catcher 'S'           |
| 28      | (1C) | CHARACTER | 7   | *          | free to use               |

LTP occurrence conditional predecessors variable part

| Offsets |      |           |     |                |                       |
|---------|------|-----------|-----|----------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description           |
| 0       | (0)  | STRUCTURE | *   | LTPCONDPREDS   |                       |
| 0       | (0)  | CHARACTER | 35  | LTPCONDPRD (*) | cond pred section     |
| 0       | (0)  | CHARACTER | 27  | LTPCONDPRDI    | predecessor id part   |
| 0       | (0)  | CHARACTER | 26  | LTPCONDPRID    | predecessor key part  |
| 0       | (0)  | CHARACTER | 6   | LTPCONDPRDAY   | run date              |
| 6       | (6)  | CHARACTER | 16  | LTPCONDPAID    | application name      |
| 22      | (16) | CHARACTER | 4   | LTPCONDPIAT    | input arrival time    |
| 26      | (1A) | CHARACTER | 1   | LTPCONDPFLGS   | pred dependency flags |
|         |      | 1... ..   |     | LTPCONDPDEL    | dependency deleted    |
|         |      | .1.. ..   |     | LTPCONDPADD    | dependency added      |
|         |      | ..1. .... |     | LTPCONDPDONE   | pred has completed    |
|         |      | ...1 .... |     | LTPCMANDPEND   | is mandatory pending  |
|         |      | .... 1111 |     | *              | free to use           |
| 27      | (1B) | CHARACTER | 2   | LTPCONDPEYE    | eye catcher 'PC'      |
| 29      | (1D) | CHARACTER | 1   | LTPCONDPMAND   | PCN                   |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 30      | (1E) | CHARACTER | 5   | *          | free to use |

LTP occurrence conditional successors variable part

| Offsets |      |           |     |                 |                       |
|---------|------|-----------|-----|-----------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description           |
| 0       | (0)  | STRUCTURE | *   | LTPCONDSUCCS    |                       |
| 0       | (0)  | CHARACTER | 35  | LTPCONDSUCC (*) | cond succ section     |
| 0       | (0)  | CHARACTER | 27  | LTPCONDSUCCI    | successor id part     |
| 0       | (0)  | CHARACTER | 26  | LTPCONDSUID     | successor key part    |
| 0       | (0)  | CHARACTER | 6   | LTPCONDSRDAY    | run date              |
| 6       | (6)  | CHARACTER | 16  | LTPCONDSAID     | application name      |
| 22      | (16) | CHARACTER | 4   | LTPCONDSIAT     | input arrival time    |
| 26      | (1A) | CHARACTER | 1   | LTPCONDSFLGS    | succ dependency flags |
|         |      | 1... ..   |     | LTPCONDSDEL     | dependency deleted    |
|         |      | .1.. ..   |     | LTPCONDSADD     | dependency added      |
|         |      | ..11 1111 |     | *               | free to use           |
| 27      | (1B) | CHARACTER | 2   | LTPCONDSEYE     | eye catcher 'SC'      |
| 29      | (1D) | CHARACTER | 6   | *               | free to use           |

LTP occurrence changed operation variable part

| Offsets |     |           |     |             |                        |
|---------|-----|-----------|-----|-------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description            |
| 0       | (0) | STRUCTURE | *   | LTPCHOPS    |                        |
| 0       | (0) | CHARACTER | 58  | LTPCHOP (*) | changed operation data |
| 0       | (0) | CHARACTER | 6   | LTPCHOID    | operation id           |

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 0       | (0)  | CHARACTER | 4   | LTPCHWS    | workstation name      |
| 4       | (4)  | SIGNED    | 2   | LTPCHOIN   | operation number      |
| 6       | (6)  | CHARACTER | 10  | LTPCHIA    | op input arrival      |
| 6       | (6)  | CHARACTER | 6   | LTPCHIAID  | op input arrival date |
| 12      | (C)  | CHARACTER | 4   | LTPCHIAIT  | op input arrival time |
| 16      | (10) | CHARACTER | 10  | LTPCHD     | op deadline           |
| 16      | (10) | CHARACTER | 6   | LTPCHDD    | op deadline date      |
| 22      | (16) | CHARACTER | 4   | LTPCHDT    | op deadline time      |
| 26      | (1A) | CHARACTER | 24  | LTPCHTXT   | op text description   |
| 50      | (32) | CHARACTER | 1   | LTPSCR     | centralized script    |
| 51      | (33) | CHARACTER | 7   | *          | free to use           |

## LTP HEADER record

| Offsets |      |           |     |             |                                         |
|---------|------|-----------|-----|-------------|-----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                             |
| 0       | (0)  | STRUCTURE | 92  | LTPHEAD     | header record                           |
| 0       | (0)  | CHARACTER | 2   | *           | reserved by io-routines                 |
| 2       | (2)  | CHARACTER | 26  | LTPHDKEY    | ltp key === key equal ' HEADER '        |
| 28      | (1C) | CHARACTER | 4   | LTPHEYE     | ltp eye catcher                         |
| 32      | (20) | UNSIGNED  | 1   | LTPHVERS    | ltp version number                      |
| 33      | (21) | UNSIGNED  | 1   | LTPREMSHIFT |                                         |
| 34      | (22) | CHARACTER | 2   | *           |                                         |
| 36      | (24) | CHARACTER | 6   | LTPSDAY     | ltp start day                           |
| 42      | (2A) | CHARACTER | 6   | LTPEDAY     | ltp end day                             |
| 48      | (30) | CHARACTER | 6   | LTPLUP      | latest update                           |
| 54      | (36) | CHARACTER | 6   | LTPFNONC    | date with first non complete occurrence |

| Offsets |      |           |     |              |                                        |
|---------|------|-----------|-----|--------------|----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                            |
| 60      | (3C) | CHARACTER | 10  | LTPPNEN      |                                        |
| 60      | (3C) | CHARACTER | 6   | LTPPNEND     | plan next period end date              |
| 66      | (42) | CHARACTER | 4   | LTPPNENT     | and time                               |
| 70      | (46) | SIGNED    | 2   | LTPREPL      | number of replans since last plan next |
| 72      | (48) | BITSTRING | 1   | LTPHFLGS     | header flags                           |
|         |      | 1... ..   |     | LTPBUILD     | LTP build is complete                  |
|         |      | .111 11.. |     | *            | free to use                            |
|         |      | .... ..1. |     | LTPOIA       | all days in op ia                      |
|         |      | .... ...1 |     | LTPODA       | all days in op dl                      |
| 73      | (49) | CHARACTER | 3   | *            | free to use                            |
| 76      | (4C) | SIGNED    | 4   | LTPMAXSZ     | (dialog) max LT size                   |
| 80      | (50) | CHARACTER | 10  | LTPLEVEL     | level of lt plan ds                    |
| 80      | (50) | CHARACTER | 2   | LTPLEV_VER   | version of lt plan ds                  |
| 82      | (52) | CHARACTER | 8   | LTPLEV_F MID | fmid of lt plan ds                     |
| 90      | (5A) | CHARACTER | 1   | LTPHEADFLAG  | Y header variable part existing        |
| 91      | (5B) | CHARACTER | 1   | *            | free to use                            |
| 92      | (5C) | CHARACTER |     | LTPHEADVAR   | variable section                       |

## LTP HAEDER variable part

| Offsets |     |           |     |               |             |
|---------|-----|-----------|-----|---------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description |
| 0       | (0) | STRUCTURE | 36  | LTPHEADV      |             |
| 0       | (0) | UNSIGNED  | 2   | LTPRUN_NUMBER |             |
| 2       | (2) | UNSIGNED  | 2   | *             |             |
| 4       | (4) | CHARACTER | 8   | LTPRUN_TOD    |             |
| 12      | (C) | CHARACTER | 24  | *             |             |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| LTP          | 0          |           | 1     |
| LTPCHOP      | 5C         |           | 3     |
| LTPCONDPRED  | 9C         |           | 3     |
| LTPCONDSUCC  | A0         |           | 3     |
| LTPPNDPRED   | A4         |           | 3     |
| LTPPRED      | 54         |           | 3     |
| LTPREPL      | 46         |           | 2     |
| LTPSUCC      | 58         |           | 3     |
| LTPADD       | 52         | 40        | 4     |
| LTPADM       | 52         |           | 3     |
| LTPAID       | 8          |           | 4     |
| LTPAUTH      | 21         |           | 3     |
| LTPBUILD     | 48         | 80        | 3     |
| LTPCAL       | 82         |           | 3     |
| LTPCHD       | 10         |           | 3     |
| LTPCHDD      | 10         |           | 4     |
| LTPCHDT      | 16         |           | 4     |
| LTPCHIA      | 6          |           | 3     |
| LTPCHIAD     | 6          |           | 4     |
| LTPCHIAT     | C          |           | 4     |
| LTPCHOID     | 0          |           | 3     |
| LTPCHOIN     | 4          |           | 4     |
| LTPCHOP      | 0          |           | 2     |
| LTPCHOPS     | 0          |           | 1     |
| LTPCHTXT     | 1A         |           | 3     |
| LTPCHWS      | 0          |           | 4     |
| LTPCMANDPEND | 1A         | 10        | 5     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| LTPCOMPL     | 52         | 04        | 4     |
| LTPCONDPADD  | 1A         | 40        | 5     |
| LTPCONDPAD   | 6          |           | 5     |
| LTPCONDPDEL  | 1A         | 80        | 5     |
| LTPCONDPDONE | 1A         | 20        | 5     |
| LTPCONDPEYE  | 1B         |           | 3     |
| LTPCONDPFLGS | 1A         |           | 4     |
| LTPCONDPAT   | 16         |           | 5     |
| LTPCONDPMAND | 1D         |           | 3     |
| LTPCONDPRDAY | 0          |           | 5     |
| LTPCONDPRED  | 0          |           | 2     |
| LTPCONDPREDI | 0          |           | 3     |
| LTPCONDPREDS | 0          |           | 1     |
| LTPCONDPRID  | 0          |           | 4     |
| LTPCONDSADD  | 1A         | 40        | 5     |
| LTPCONDSAID  | 6          |           | 5     |
| LTPCONSDDEL  | 1A         | 80        | 5     |
| LTPCONDSEYE  | 1B         |           | 3     |
| LTPCONDSFLGS | 1A         |           | 4     |
| LTPCONDSIAT  | 16         |           | 5     |
| LTPCONDSRDAY | 0          |           | 5     |
| LTPCONDSUCC  | 0          |           | 2     |
| LTPCONDSUCCI | 0          |           | 3     |
| LTPCONDSUCCS | 0          |           | 1     |
| LTPCONDSUID  | 0          |           | 4     |
| LTPDDAY      | 43         |           | 4     |
| LTPDEADL     | 43         |           | 3     |
| LTPDEL       | 52         | 80        | 4     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| LTPDEPCH    | 52         | 08        | 4     |
| LTPDP       | 0          |           | 2     |
| LTPDSTAT    | 60         |           | 3     |
| LTPDTIME    | 49         |           | 4     |
| LTPEDAY     | 2A         |           | 2     |
| LTPERCOD    | 4E         |           | 3     |
| LTPEXPRES   | 53         | 40        | 4     |
| LTPPEYE     | 1C         |           | 3     |
| LTPFILLER   | A8         |           | 3     |
| LTPFLGS     | 53         |           | 3     |
| LTPFNONC    | 36         |           | 2     |
| LTPGROUPID  | 72         |           | 3     |
| LTPHDKEY    | 2          |           | 2     |
| LTPHEAD     | 0          |           | 1     |
| LTPHEADFLAG | 5A         |           | 2     |
| LTPHEADV    | 0          |           | 1     |
| LTPHEADVAR  | 5C         |           | 2     |
| LTPPEYE     | 1C         |           | 2     |
| LTPHFLGS    | 48         |           | 2     |
| LTPHVERS    | 20         |           | 2     |
| LTPJVTAB    | 61         |           | 3     |
| LTPKEY      | 2          |           | 3     |
| LTPLEV_FMID | 52         |           | 3     |
| LTPLEV_VER  | 50         |           | 3     |
| LTPLEVEL    | 50         |           | 2     |
| LTPPLUP     | 30         |           | 2     |
| LTPPLUTS    | 92         |           | 3     |
| LTPMANDPEND | CA         | 10        | 5     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| LTPMAXSZ   | 4C         |           | 2     |
| LTPMOD     | 52         | 20        | 4     |
| LTPMOV     | 52         | 10        | 4     |
| LTPODA     | 48         | 01        | 3     |
| LTPOIA     | 48         | 02        | 3     |
| LTPOPTRU   | 53         | 80        | 4     |
| LTPORDAY   | 39         |           | 4     |
| LTPORIA    | 39         |           | 3     |
| LTPORTIM   | 3F         |           | 4     |
| LTPOWNER   | 29         |           | 3     |
| LTPPADD    | CA         | 40        | 5     |
| LTPPAID    | B6         |           | 5     |
| LTPPDEL    | CA         | 80        | 5     |
| LTPPDONE   | CA         | 20        | 5     |
| LTPPEYE    | CB         |           | 3     |
| LTPPFLGS   | CA         |           | 4     |
| LTPPIAT    | C6         |           | 5     |
| LTPPNEN    | 3C         |           | 2     |
| LTPPNEND   | 3C         |           | 3     |
| LTPPNENT   | 42         |           | 3     |
| LTPPPRMAND | CC         |           | 3     |
| LTPPRDAY   | B0         |           | 5     |
| LTPPRED    | B0         |           | 2     |
| LTPPREDI   | B0         |           | 3     |
| LTPPREDS   | B0         |           | 1     |
| LTPPRID    | B0         |           | 4     |
| LTPPRT     | 4D         |           | 3     |
| LTPRDAY    | 2          |           | 4     |



| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| LTPREMSHIFT   | 21         |           | 2     |
| LTPRUN_NUMBER | 0          |           | 2     |
| LTPRUN_TOD    | 4          |           | 2     |
| LTPRUNID      | 9A         |           | 3     |
| LTPSADD       | 1A         | 40        | 5     |
| LTPSAID       | 6          |           | 5     |
| LTPSCR        | 32         |           | 3     |
| LTPSDAY       | 24         |           | 2     |
| LTPSDEL       | 1A         | 80        | 5     |
| LTPSEYE       | 1B         |           | 3     |
| LTPSFLGS      | 1A         |           | 4     |
| LTPSIAT       | 16         |           | 5     |
| LTPSRDAY      | 0          |           | 5     |
| LTPSTIME      | 18         |           | 4     |
| LTPSUCC       | 0          |           | 2     |
| LTPSUCCI      | 0          |           | 3     |
| LTPSUCCS      | 0          |           | 1     |
| LTPSUID       | 0          |           | 4     |
| LTPVARS       | B0         |           | 2     |
| LTPVERS       | 20         |           | 3     |

## MCA - Main communication area

### Example

Name : DCLMCA

Function:

This segment declares the scheduler common area. Most control blocks can be reached via the MCA.

| Offsets |     |           |     |            |                           |
|---------|-----|-----------|-----|------------|---------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description               |
| 0       | (0) | STRUCTURE | 392 | MCA        | OPCESA communication area |
| 0       | (0) | CHARACTER | 4   | MCADESC    | block descriptor = 'MCA ' |
| 4       | (4) | CHARACTER | 10  | MCALEVEL   | MCA block code level      |
| 4       | (4) | CHARACTER | 2   | MCAVER     | block mapping version     |
| 6       | (6) | CHARACTER | 8   | MCAFMID    | OPCESA tracker fmid       |
| 14      | (E) | BITSTRING | 2   | MCAFLAGS   | mca options               |
|         |     | 1... .... |     | MCATSO     | 1 tso user built mca      |
|         |     | .1.. .... |     | MCAASXB    | 1 asxb was modified       |
|         |     | ..1. .... |     | MCAACEE    | 1 acee built              |
|         |     | ...1 .... |     | MCARACF    | 1 subres profiles         |
|         |     | .... 1... |     | MCAESA     | 1 active on mvsesa        |
|         |     | .... .1.. |     | MCASP4     | 1 mvssp 4.1 or later      |
|         |     | .... ..1. |     | MCAMLOG    | 1 msg log is reserved     |
|         |     | .... ...1 |     | MCA313     | 1 mvssp 3.1.3 or later    |
| 15      | (F) | 1... .... |     | MCAQFCAN   | 1 ss cancl'd due to qfull |
|         |     | .1.. .... |     | MCANOPRM   | 1 do not open parmlib     |
|         |     | ..1. .... |     | MCAEDPW    | 1 waiting for edp         |
|         |     | ...1 .... |     | MCASP422   | 1 mvssp 4.2.2 or later    |
|         |     | .... 1... |     | MCAPACE    | 1 event inflow paced      |
|         |     | .... .1.. |     | MCAUPACE   | 1 emgr ask for resume     |
|         |     | .... ..1. |     | MCARTRQ    | 1 queue to DRTQ           |
|         |     | .... ...1 |     | MCATCPR    | 1 ta task restarting      |

OPCESA control block addresses follow

| Offsets |      |         |     |            |                       |
|---------|------|---------|-----|------------|-----------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description           |
| 16      | (10) | ADDRESS | 4   | MCAASCB    | eqqmajor ascb address |
| 20      | (14) | ADDRESS | 4   | MCAMTCB    | eqqmajor tcb address  |

| Offsets |      |         |     |            |                                     |
|---------|------|---------|-----|------------|-------------------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description                         |
| 24      | (18) | ADDRESS | 4   | MCAOPTS    | addr of options block               |
| 28      | (1C) | ADDRESS | 4   | MCAFTAB    | file table address                  |
| 32      | (20) | ADDRESS | 4   | MCASTEMJ   | addr 1st major subtask              |
| 36      | (24) | ADDRESS | 4   | MCASTENM   | addr 1st nmm subtask                |
| 40      | (28) | ADDRESS | 4   | MCASTEGS   | addr 1st genserv subtask            |
| 44      | (2C) | ADDRESS | 4   | MCAOPECB   | addr of oper cmd ecb                |
| 48      | (30) | ADDRESS | 4   | MCASSVT    | addr of opc ssvt                    |
| 52      | (34) | ADDRESS | 4   | MCASSCT    | addr of opc ssct                    |
| 56      | (38) | ADDRESS | 4   | MCATSOB    | addr of tso table block             |
| 60      | (3C) | ADDRESS | 4   | MCANMMB    | addr of nmm parameters              |
| 64      | (40) | ADDRESS | 4   | MCAEDPB    | addr of edp block                   |
| 68      | (44) | ADDRESS | 4   | MCAPRIP    | addr of pri block                   |
| 72      | (48) | ADDRESS | 4   | MCASRAP    | addr of serv routn array            |
| 76      | (4C) | ADDRESS | 4   | MCASURE    | addr of sure table                  |
| 80      | (50) | ADDRESS | 4   | MCANABB    | addr of vtam io params              |
| 84      | (54) | ADDRESS | 4   | MCADIAP    | addr of diagnose options            |
| 88      | (58) | ADDRESS | 4   | MCACPNQ    | addr of cp enq statistics           |
| 92      | (5C) | ADDRESS | 4   | MCATMLOG   | tcb addr of mlog reserver           |
| 96      | (60) | ADDRESS | 4   | MCAJANCP   | js interface anchor block           |
| 100     | (64) | ADDRESS | 4   | MCAXSIP    | XCF system info cb                  |
| 104     | (68) | ADDRESS | 4   | MCAQFECB   | addr to q full ecb                  |
| 108     | (6C) | ADDRESS | 4   | MCAASIP    | APPC system info cb                 |
| 112     | (70) | ADDRESS | 4   | MCAAREP    | APPC restart ecb ptr                |
| 116     | (74) | ADDRESS | 4   | MCATSRAP   | addr of Topology parsing            |
| 120     | (78) | ADDRESS | 4   | MCAFSRAP   | addr of Data Store service routines |
| 124     | (7C) | ADDRESS | 4   | MCASUB     | addr of sub parm area               |
| 128     | (80) | ADDRESS | 4   | MCASSXP    | SSX block address                   |

| Offsets |      |         |     |            |                          |
|---------|------|---------|-----|------------|--------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description              |
| 132     | (84) | ADDRESS | 4   | MCARSIP    | RODM system info cb      |
| 136     | (88) | ADDRESS | 4   | MCARREP    | RODM restart ecb ptr     |
| 140     | (8C) | ADDRESS | 4   | MCARODMOPT | RODM options table       |
| 144     | (90) | ADDRESS | 4   | MCAHCM     | HCMMain address          |
| 148     | (94) | ADDRESS | 4   | MCAID      | Local Id event area      |
| 152     | (98) | ADDRESS | 4   | MCAJOPTS   | address of JOBOPTS parms |
| 156     | (9C) | ADDRESS | 4   | MCAANMMP   | always nmmpointer        |
| 160     | (A0) | ADDRESS | 4   | MCAQUEPTR  | current queue elem ptr   |

OPCESA service routine addresses follow

| Offsets |      |         |     |            |                            |
|---------|------|---------|-----|------------|----------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description                |
| 164     | (A4) | ADDRESS | 4   | MCAMSGX    | message routine address    |
| 168     | (A8) | ADDRESS | 4   | MCASEQX    | seq io service routine     |
| 172     | (AC) | ADDRESS | 4   | MCAPDSX    | pds io service routine     |
| 176     | (B0) | ADDRESS | 4   | MCAPRMX    | param member parse rtn     |
| 180     | (B4) | ADDRESS | 4   | MCAQUEX    | queue server routine       |
| 184     | (B8) | ADDRESS | 4   | MCANOWX    | current time routine       |
| 188     | (BC) | ADDRESS | 4   | MCAVSAM    | addr vsam file handler     |
| 192     | (C0) | ADDRESS | 4   | MCAVSAMB   | addr bex vsam file handler |
| 196     | (C4) | ADDRESS | 4   | MCASUBX    | addr job submit routine    |
| 200     | (C8) | ADDRESS | 4   | MCARELX    | addr job release routine   |
| 204     | (CC) | ADDRESS | 4   | MCAEVHX    | addr of event handler      |
| 208     | (D0) | ADDRESS | 4   | MCAMCPX    | addr of modify curr plan   |
| 212     | (D4) | ADDRESS | 4   | MCABEXP    | bex services address       |
| 216     | (D8) | ADDRESS | 4   | MCAAIDX    | ZNOWX format clone address |
| 220     | (DC) | ADDRESS | 4   | MCALVCK    | level check routine adres  |

| Offsets |      |         |     |            |                   |
|---------|------|---------|-----|------------|-------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description       |
| 224     | (E0) | ADDRESS | 4   | MCAZNQD    | ZNQDX lock dsname |
| 228     | (E4) | ADDRESS | 4   | MCAETTP    | ETT info for CP04 |
| 232     | (E8) | ADDRESS | 4   | MCAIDECB   | EW ID event ECB   |

miscellaneous opc constants

| Offsets |      |           |     |                  |                                    |
|---------|------|-----------|-----|------------------|------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description                        |
| 236     | (EC) | SIGNED    | 2   | MCANSUBS         | number of subsys subtasks          |
| 238     | (EE) | SIGNED    | 2   | MCAGMTOF         | gmt offset, minutes                |
| 240     | (F0) | SIGNED    | 2   | MCARACRTRC       | racroute trace level               |
| 242     | (F2) | BITSTRING | 2   | MCADSTORE        | Data Store task status             |
|         |      | 1... ..   |     | DBAREADY         | Data base init OK                  |
|         |      | .1.. ..   |     | DBAFAIL          | Data base ended                    |
|         |      | ..1. .... |     | JQUIREADY        | Jes queue init OK                  |
|         |      | ...1 .... |     | JQUFAIL          | Jes queue ended                    |
|         |      | .... 1... |     | MCAREFRCP        |                                    |
|         |      | .... .1.. |     | MCAMAJD          | diag major                         |
|         |      | .... ..1. |     | MCASHFT          | FNONC shift active                 |
|         |      | .... ...1 |     | MCABK_CLONING    | ON Controller in cloning mode      |
| 243     | (F3) | 1... ..   |     | MCABK_BKMODE_MAJ | ON Controller in Backup Mode MAJOR |
|         |      | .1.. ..   |     | MCABK_BKMODE_NMM | ON Takeover done for bkp           |
|         |      | ..1. .... |     | MCATAKEOV        |                                    |
|         |      | ...1 1... |     | *                |                                    |
|         |      | .... .1.. |     | FPROCIN          |                                    |
|         |      | .... ..1. |     | FMETHOD          | Data Store method trace            |
|         |      | .... ...1 |     | FPARSER          | Data Store parser trace            |
| 244     | (F4) | SIGNED    | 4   | MCAGMTSEC        | gmt offset, seconds                |
| 248     | (F8) | CHARACTER | 1   | MCAJES           | primary jes, A=js2, B=js3          |

| Offsets |       |           |     |            |                                                                                                                                       |
|---------|-------|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description                                                                                                                           |
| 249     | (F9)  | CHARACTER | 1   | MCACJES    | jes command 1st character                                                                                                             |
| 250     | (FA)  | CHARACTER | 4   | MCASSNM    | OPCESA subsystem name                                                                                                                 |
| 254     | (FE)  | CHARACTER | 8   | MCAMAJNM   | OPCESA major enq name                                                                                                                 |
| 262     | (106) | CHARACTER | 8   | MCACCLASS  | racf resource class name                                                                                                              |
| 270     | (10E) | CHARACTER | 8   | MCANJENM   | nje node name                                                                                                                         |
| 278     | (116) | CHARACTER | 4   | MCAQFQN    | name of full queue                                                                                                                    |
| 282     | (11A) | CHARACTER | 8   | MCANVID    | Netview Receiver ID                                                                                                                   |
| 290     | (122) | CHARACTER | 1   | MCADSCLAS  | JES class for Datastore                                                                                                               |
| 291     | (123) | CHARACTER | 1   | MCASPIN    | Y = SPIN available N = SPIN not available                                                                                             |
| 292     | (124) | ADDRESS   | 4   | MCAPHBP    | to server block                                                                                                                       |
| 296     | (128) | CHARACTER | 5   | MCACLNJOB  | clean up job name                                                                                                                     |
| 301     | (12D) | CHARACTER | 1   | MCADDRSPC  | address space type O = controllertracker S = server D = data store B = batch T = Trial EQQDTTOP L = Batch Loader U = Output Collector |
| 302     | (12E) | CHARACTER | 8   | MCAJESFMID | JES fmid                                                                                                                              |
| 310     | (136) | CHARACTER | 1   | MCATRACES  |                                                                                                                                       |
|         |       | 1... ..   |     | MCAZZSPIN  | SPIN traces                                                                                                                           |
|         |       | .111 1111 |     | *          |                                                                                                                                       |
| 311     | (137) | CHARACTER | 1   | MCCALLOPT  | LISTLOG option A FIN                                                                                                                  |
| 312     | (138) | BITSTRING | 6   | MCASUBRS   | protected subresources                                                                                                                |
|         |       | 1... ..   |     | MCAADNM    | ada.adname is a resource                                                                                                              |
|         |       | .1.. ..   |     | MCAADOW    | ado.owner is a resource                                                                                                               |
|         |       | ..1. .... |     | MCAADGR    | adg.group is a resource                                                                                                               |
|         |       | ...1 .... |     | MCAADJB    | adj.jobname is a resource                                                                                                             |
|         |       | .... 1... |     | MCACPAD    | cpa.adname is a resource                                                                                                              |
|         |       | .... .1.. |     | MCACPOW    | cpo.owner is a resource                                                                                                               |
|         |       | .... ..1. |     | MCACPGR    | cpg.group is a resource                                                                                                               |

| Offsets |       |           |     |            |                           |
|---------|-------|-----------|-----|------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description               |
|         |       | .... ...1 |     | MCACPJB    | cpj.jobname is a resource |
| 313     | (139) | 1... .... |     | MCACPWS    | cpw.wsname is a resource  |
|         |       | .1.. .... |     | MCAJCAD    | jsa.adname is a resource  |
|         |       | ..1. .... |     | MCAJCJB    | jsj.jobname is a resource |
|         |       | ...1 .... |     | MCAJCWS    | jsw.wsname is a resource  |
|         |       | .... 1... |     | MCAJCOW    | jso.owner is a resource   |
|         |       | .... .1.. |     | MCAJCGR    | jsg.group is a resource   |
|         |       | .... ..1. |     | MCALTAD    | lta.adname is a resource  |
|         |       | .... ...1 |     | MCALTOW    | lto.owner is a resource   |
| 314     | (13A) | 1... .... |     | MCAOIAD    | oia.adname is a resource  |
|         |       | .1.. .... |     | MCAWSWS    | wsw.wsname is a resource  |
|         |       | ..1. .... |     | MCARLAD    | rla.adname is a resource  |
|         |       | ...1 .... |     | MCARLOW    | rlo.owner is a resource   |
|         |       | .... 1... |     | MCARLGR    | rlg.group is a resource   |
|         |       | .... .1.. |     | MCARLWS    | rlw.wsname is a resource  |
|         |       | .... ..1. |     | MCACLCN    | clc.calname is a resource |
|         |       | .... ...1 |     | MCAPRPN    | prp.pername is a resource |
| 315     | (13B) | 1... .... |     | MCAETNM    | ete.name is a resource    |
|         |       | .1.. .... |     | MCAETAD    | eta.name is a resource    |
|         |       | ..1. .... |     | MCASRNM    | srs.name is a resource    |
|         |       | ...1 .... |     | MCAVJVO    | jv.owner is a resource    |
|         |       | .... 1... |     | MCAVJVN    | jv.tabname is a resource  |
|         |       | .... .1.. |     | MCACPWO    | cpz.wsname is a res       |
|         |       | .... ..1. |     | MCACPGD    | cpd.OCCgrp is a res       |
|         |       | .... ...1 |     | MCALTGD    | ltd.OCCgrp is a res       |
| 316     | (13C) | 1... .... |     | MCAADGD    | add.adgrp is a res        |
|         |       | .1.. .... |     | MCARLWST   | rl.wsstat is a res        |

| Offsets |       |            |     |                             |                              |
|---------|-------|------------|-----|-----------------------------|------------------------------|
| Dec     | Hex   | Type       | Len | Name (Dim)                  | Description                  |
|         |       | ...1. .... |     | MCARDRN                     | rdr.name is a res            |
|         |       | ...1. .... |     | MCAADEX                     | ade.extname is a res         |
|         |       | .... 1...  |     | MCACPEX                     | cpe.extname is a res         |
|         |       | .... .1..  |     | MCAADSE                     | ad.secelem is a res          |
|         |       | .... ..1.  |     | MCACPSE                     | cp.secelem is a res          |
|         |       | .... ...1  |     | MCADBRP                     | rp.reptype is a res          |
| 317     | (13D) | 1... ....  |     | MCAJLD                      | JL.DSNAME library access     |
|         |       | .1.. ....  |     | MCAJLM                      | JL.MEMBER member access      |
|         |       | ..1. ....  |     | MCAADUF                     | AD.UFVAL access control      |
|         |       | ...1. .... |     | MCACPUF                     | CP.UFVAL access control      |
|         |       | .... 1...  |     | MCARGRN                     | RG.RGNAME                    |
|         |       | .... .1..  |     | MCARGOW                     | RG.OWNER                     |
|         |       | .... ..1.  |     | MCACPRS                     | cp.resname                   |
|         |       | .... ...1  |     | MCAADRS                     | ad.resname                   |
| 318     | (13E) | BITSTRING  | 2   | MCAFLAGS2                   | flags                        |
|         |       | 1... ....  |     | MCASP52                     | 1 mvssp 5.2 or later         |
|         |       | .1.. ....  |     | MCASYMB                     | 1 perform symbol subst       |
|         |       | ..1. ....  |     | MCAUX002                    | exit2 invoked                |
|         |       | ...1. .... |     | MCAWAENQ                    | deq after abend              |
|         |       | .... 1...  |     | MCADBG                      | for debug purpose            |
|         |       | .... .1..  |     | MCAJTBLOCK                  | ON JTB is locked             |
|         |       | .... ..1.  |     | MCATWSCNTLSTART             | On at controller StartUp     |
|         |       | .... ...1  |     | MCABULKDISCOVERY<br>RUNNING | bulc disk is already running |
| 319     | (13F) | 1... ....  |     | MCALOCK2B                   |                              |
|         |       | .1.. ....  |     | MCASTOPC                    | On = stop command issue      |
|         |       | ..1. ....  |     | MCARESTART                  |                              |
|         |       | ...1. .... |     | MCALOGRCOPEN                | On = LOGRC open              |



| Offsets |       |           |     |                |                         |
|---------|-------|-----------|-----|----------------|-------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)     | Description             |
|         |       | .... 1... |     | MCALOGRCEMPTY  | On = LOGRC empty done   |
|         |       | .... .1.. |     | MCALOGRCUPEND  | On = unload pending     |
|         |       | .... ..1. |     | MCALOGRCCLDONE | On = load done          |
|         |       | .... ...1 |     | MCAMLOCKSKIP   |                         |
| 320     | (140) | ADDRESS   | 4   | MCATPLGYP      | Topology CB address     |
| 324     | (144) | ADDRESS   | 4   | MCASCLIBDCB    | sclib dcb ptr           |
| 328     | (148) | ADDRESS   | 4   | MCACTOKEN      | token for C environment |
| 332     | (14C) | SIGNED    | 4   | MCAUSERF       | reserved for opc exits  |
| 336     | (150) | SIGNED    | 2   | MCAQUELEN      | QUEUELEN changed value  |
| 338     | (152) | BITSTRING | 2   | MCAPERF        | Performance flags       |
|         |       | 1... .... |     | MCAEXIDB       | EXIT debug              |
|         |       | .1.. .... |     | MCAJCLDB       | JCL debug               |
|         |       | ..1. .... |     | MCAE105        | E105 msg flag           |
|         |       | ...1 .... |     | MCAZ308        | Z308 msg flag           |
|         |       | .... 1... |     | MCAN069        | N069 msg flag           |
|         |       | .... .1.. |     | MCATDCHK       | checkTimeDep            |
|         |       | .... ..1. |     | MCAADINUSE     | AD used by batch        |
|         |       | .... ...1 |     | MCAADVERRUN    | AD VER done             |
| 339     | (153) | 1... .... |     | MCAPIF         |                         |
|         |       | .1.. .... |     | MCAMLOG2       | EQQMLOG2 DD specified   |
|         |       | ..1. .... |     | MCAMLOG2INUSE  | EQQMLOG2 is to be used  |
|         |       | ...1 .... |     | MCALOOP        | EQQLOOP open OK         |
|         |       | .... 1111 |     | *              | free                    |
| 340     | (154) | SIGNED    | 2   | MCATIMESTA     | stats msg interval time |
| 342     | (156) | SIGNED    | 2   | MCABLRC        | BL rc with EQQY221E     |
| 344     | (158) | ADDRESS   | 4   | MCADBGp        |                         |
| 348     | (15C) | ADDRESS   | 4   | MCAMLOGD       | mlog dsname address     |

| Offsets |       |           |     |             |                         |
|---------|-------|-----------|-----|-------------|-------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description             |
| 352     | (160) | ADDRESS   | 4   | MCAFARB     | farb ptr                |
| 356     | (164) | SIGNED    | 4   | LOCKRC      |                         |
| 360     | (168) | CHARACTER | 4   | MCAFINDMEM  |                         |
| 360     | (168) | BITSTRING | 3   | MCATTR      |                         |
| 363     | (16B) | BITSTRING | 1   | MCACONC     |                         |
| 364     | (16C) | SIGNED    | 4   | MCAENFTOK57 | ENFREQ 57 dtoken        |
| 368     | (170) | SIGNED    | 4   | MCAWLMQSZ   | WLM query size          |
| 372     | (174) | SIGNED    | 4   | MCAENFTOK41 | ENFREQ 41 dtoken        |
| 376     | (178) | ADDRESS   | 4   | MCAMSGI     | bufmsg routine address  |
| 380     | (17C) | ADDRESS   | 4   | MCAEXTP     | address of extended MCA |
| 384     | (180) | SIGNED    | 4   | MCAENFTOK53 | ENFREQ 53 dtoken        |
| 388     | (184) | ADDRESS   | 4   | MCAUX014    | address of eqqux014     |
| 392     | (188) | CHARACTER |     | MCAEND      | end of mca              |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 0       | (0)  | STRUCTURE | 324 | MCAEXT     | extended MCA            |
| 0       | (0)  | ADDRESS   | 4   | MCAANCQP   | adress of mcaFLque      |
| 4       | (4)  | CHARACTER | 8   | MCASYSNAME | &SYSNAME                |
| 12      | (C)  | ADDRESS   | 4   | MCAJTAB    | address of EQQZJTAB     |
| 16      | (10) | ADDRESS   | 4   | MCADSIOX   | address of EQQDSIOX     |
| 20      | (14) | ADDRESS   | 4   | MCADSINI   | address of EQQDSINI     |
| 24      | (18) | ADDRESS   | 4   | MCAJTBP    | ptr to JTB              |
| 28      | (1C) | ADDRESS   | 4   | MCAX14TABP | exit14 tabptr           |
| 32      | (20) | SIGNED    | 4   | MCAX14NUMR | exit14 numrow           |
| 36      | (24) | SIGNED    | 4   | MCAX14RSIZ | exit14 recsize          |
| 40      | (28) | ADDRESS   | 4   | MCADSVIEWP | ptr to DSV command area |
| 44      | (2C) | CHARACTER | 8   | MCAOPTMEM  | options member          |

| Offsets |      |           |     |               |                                         |
|---------|------|-----------|-----|---------------|-----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                             |
| 52      | (34) | ADDRESS   | 4   | MCADTBAUX     | pointer to refresh dest                 |
| 56      | (38) | SIGNED    | 4   | MCAAVILDST    | destination slots available for refresh |
| 60      | (3C) | ADDRESS   | 4   | MCAHTCA       | pointer to htca                         |
| 64      | (40) | SIGNED    | 4   | MCAHTCAUXN    | len of aux htc                          |
| 68      | (44) | ADDRESS   | 4   | MCAHTCAUX     | pointer to auxiliary htc                |
| 72      | (48) | ADDRESS   | 4   | MCAPERFJTBP   | perf measurement JTB                    |
| 76      | (4C) | ADDRESS   | 4   | MCAAREAS      | storage for JEKJNodes                   |
| 80      | (50) | ADDRESS   | 4   | MCAJNOFR      | first free JNODE                        |
| 84      | (54) | ADDRESS   | 4   | MCAJEKFR      | first free JEK entry                    |
| 88      | (58) | ADDRESS   | 4   | MCAJEKFP      | first job entry elem                    |
| 92      | (5C) | ADDRESS   | 4   | MCAJEKLP      | last job entry elem                     |
| 96      | (60) | ADDRESS   | 4   | MCAJNOFP      | Root JNODE                              |
| 100     | (64) | ADDRESS   | 4   | MCAJNOFLP     | First leaf JNODE                        |
| 104     | (68) | ADDRESS   | 4   | MCAJNOLLP     | Last Leaf JNODE                         |
| 108     | (6C) | ADDRESS   | 4   | MCAJEKLASTIP  | Last Leaf JNODE                         |
| 112     | (70) | SIGNED    | 2   | MCAJEKLASTIPO | Last relative JE position               |
| 114     | (72) | SIGNED    | 2   | MCAJNODENO    | Number of JNODES                        |
| 116     | (74) | SIGNED    | 4   | MCAHTSAUXN    | len of aux hts                          |
| 120     | (78) | ADDRESS   | 4   | MCAHTSAUX     | pointer to auxiliary hts                |
| 124     | (7C) | ADDRESS   | 4   | MCAHTSA       | pointer to htca                         |
| 128     | (80) | ADDRESS   | 4   | MCAZRTAB      | address of EQZRTAB                      |
| 132     | (84) | ADDRESS   | 4   | MCAZRXCMT     | address of EQZRXCMT                     |
| 136     | (88) | ADDRESS   | 4   | MCAGCAMTOKEN  | GCAM token                              |
| 140     | (8C) | CHARACTER | 1   | MCACONTCH     | JCL continuation char                   |
| 141     | (8D) | CHARACTER | 2   | MCAVSTRCH     | variable prefix                         |
| 143     | (8F) | CHARACTER | 1   | MCAVENDCH     | free                                    |
| 144     | (90) | ADDRESS   | 4   | MCASSXTRP     | SSX trace                               |

| Offsets |      |         |     |              |                         |
|---------|------|---------|-----|--------------|-------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim)   | Description             |
| 148     | (94) | ADDRESS | 4   | MCAMVDEADLP  | moved deadline ptr      |
| 152     | (98) | ADDRESS | 4   | MCAOUCM      | pointer to oucm         |
| 156     | (9C) | ADDRESS | 4   | MCAPLGLSTP   | ptr to plugin list      |
| 160     | (A0) | SIGNED  | 4   | MCAG1X       |                         |
| 164     | (A4) | SIGNED  | 4   | MCAG1SUM     |                         |
| 168     | (A8) | SIGNED  | 4   | MCAG2X       |                         |
| 172     | (AC) | SIGNED  | 4   | MCAG2SUM     |                         |
| 176     | (B0) | SIGNED  | 4   | MCAG3X       |                         |
| 180     | (B4) | SIGNED  | 4   | MCAG3SUM     |                         |
| 184     | (B8) | SIGNED  | 4   | MCAG4X       |                         |
| 188     | (BC) | SIGNED  | 4   | MCAG4SUM     |                         |
| 192     | (C0) | SIGNED  | 4   | MCAG5X       |                         |
| 196     | (C4) | SIGNED  | 4   | MCAG5SUM     |                         |
| 200     | (C8) | ADDRESS | 4   | MCAXT50Z     |                         |
| 204     | (CC) | ADDRESS | 4   | MCAMCTABP    | tab match crit (groups) |
| 208     | (D0) | SIGNED  | 4   | MCACPHFLOW   | CPH flow calling dsiox  |
| 212     | (D4) | ADDRESS | 4   | MCAMAXSUB    |                         |
| 216     | (D8) | ADDRESS | 4   | MCACOMPLP    | compl list ptr          |
| 220     | (DC) | ADDRESS | 4   | MCAOPEXTP    | ptr to ext sub op       |
| 224     | (E0) | SIGNED  | 4   | MCACJPOOLID  |                         |
| 228     | (E4) | SIGNED  | 4   | MCAHLPPOOLID |                         |
| 232     | (E8) | SIGNED  | 4   | MCAJTBMMMSG  |                         |
| 236     | (EC) | SIGNED  | 4   | MCAJTBPMMSG  |                         |

new fields for BACKUP controller start

| Offsets |       |           |     |              |                         |
|---------|-------|-----------|-----|--------------|-------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description             |
| 240     | (F0)  | ADDRESS   | 4   | MCANEWP      | last BK dge info        |
| 244     | (F4)  | ADDRESS   | 4   | MCADBTRLTBP  | ptr o DB trl table      |
| 248     | (F8)  | ADDRESS   | 4   | MCDBPROCP    |                         |
| 252     | (FC)  | ADDRESS   | 4   | MCABKINFOP   | ptr to primary BKINFO   |
| 256     | (100) | ADDRESS   | 4   | MCAMN2P      | ptr to NM2 area         |
| 260     | (104) | ADDRESS   | 4   | * (2)        |                         |
| 268     | (10C) | ADDRESS   | 4   | MCATSYNCECBP | Tracker sync ecb        |
| 272     | (110) | CHARACTER | 1   | MCATRKTCPA   | Tracker TCP task up YN  |
| 273     | (111) | CHARACTER | 1   | MCATRKCENNT  | Tracker conn type XT    |
| 274     | (112) | CHARACTER | 1   | MCATRKBKUP   | Tracker has a backup YN |
| 275     | (113) | CHARACTER | 1   | MCACONNECTED | Tracker connected YN    |
| 276     | (114) | ADDRESS   | 4   | MCATRKECBPTR | ptr to tracker ecb      |
| 280     | (118) | ADDRESS   | 4   | MCAEDPCONVP  |                         |
| 284     | (11C) | ADDRESS   | 4   | MCABTCAP     | address of BTCA         |
| 288     | (120) | CHARACTER | 4   | MCASCAFFO    | scaffolding             |
| 292     | (124) | ADDRESS   | 4   | MCALTPHDR    | LTP header              |
| 296     | (128) | ADDRESS   | 4   | MCABKECB     | BKP TAKEOVER ecb        |

new fields for BACKUP controller end

| Offsets |       |           |     |             |                                              |
|---------|-------|-----------|-----|-------------|----------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description                                  |
| 300     | (12C) | CHARACTER | 8   | MCAMLOGPROC | switch MLOG proc name default = EQQMLOG      |
| 308     | (134) | SIGNED    | 4   | MCAMLOG2LIM | MLOG2 wrap around limit (SWITCHMLOGLIM parm) |
| 312     | (138) | SIGNED    | 4   | MCAMLOG2CNT | MLOG2 counter                                |
| 316     | (13C) | ADDRESS   | 4   | MCACKPTP    |                                              |
| 320     | (140) | ADDRESS   | 4   | MCAHTDBFP   | free                                         |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 12  | MCAFLQUE   |             |
| 0       | (0) | ADDRESS   | 4   | MCAANCQP1  | floptmsgqu1 |
| 4       | (4) | ADDRESS   | 4   | MCAANCQP2  | floptmsgqu2 |
| 8       | (8) | ADDRESS   | 4   | MCAANCQPT  | floptmsgqut |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 0       | (0)  | STRUCTURE | 28  | MCADSVIEW  |             |
| 0       | (0)  | CHARACTER | 16  | MCADSV_AD  | adid        |
| 16      | (10) | CHARACTER | 10  | MCADSV_IA  | ia          |
| 26      | (1A) | SIGNED    | 2   | MCADSV_OP  | opnum       |

| Offsets |      |           |     |             |             |
|---------|------|-----------|-----|-------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description |
| 0       | (0)  | STRUCTURE | 48  | MCAPERFJTB  |             |
| 0       | (0)  | CHARACTER | 12  | MCAOPERDESC |             |
| 12      | (C)  | SIGNED    | 4   | MCAOPERNUM  |             |
| 16      | (10) | CHARACTER | 12  | MCATIMEDESC |             |
| 28      | (1C) | SIGNED    | 4   | MCATIMENUM  |             |
| 32      | (20) | CHARACTER | 12  | MCAJTBDESC  |             |
| 44      | (2C) | SIGNED    | 4   | MCAJBTBNUM  |             |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | *   | MCAHTPAGE  |             |
| 0       | (0) | CHARACTER | 12  | MCAHTFIX   |             |
| 0       | (0) | ADDRESS   | 4   | MCAHTNEXT  |             |
| 4       | (4) | ADDRESS   | 4   | MCAHTTOT   |             |
| 8       | (8) | SIGNED    | 4   | MCAHTOFF   |             |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 12      | (C) | CHARACTER | *   | MCAHTEND   |             |

| Offsets |     |           |     |             |                    |
|---------|-----|-----------|-----|-------------|--------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description        |
| 0       | (0) | STRUCTURE | 10  | MCAMVDEADL  | moved deadline blk |
| 0       | (0) | CHARACTER | 6   | MCAMVDLDATE | Date               |
| 6       | (6) | CHARACTER | 4   | MCAMVDLTIME | Time               |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 68  | MCABKINFO  |             |

## TRANSFER JOB INFO

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 0       | (0)  | CHARACTER | 68  | MCA_TRANSFER     |             |
| 0       | (0)  | CHARACTER | 8   | MCA_NCPBSE_JOB   |             |
| 8       | (8)  | CHARACTER | 8   | MCA_NCPBSE_JOBID |             |
| 16      | (10) | CHARACTER | 1   | MCA_NCPBSE_STAT  |             |
| 17      | (11) | CHARACTER | 8   | MCA_CP1BSE_JOB   |             |
| 25      | (19) | CHARACTER | 8   | MCA_CP1BSE_JOBID |             |
| 33      | (21) | CHARACTER | 1   | MCA_CP1BSE_STAT  |             |
| 34      | (22) | CHARACTER | 8   | MCA_CP2BSE_JOB   |             |
| 42      | (2A) | CHARACTER | 8   | MCA_CP2BSE_JOBID |             |
| 50      | (32) | CHARACTER | 1   | MCA_CP2BSE_STAT  |             |
| 51      | (33) | CHARACTER | 8   | MCA_LTPBSE_JOB   |             |
| 59      | (3B) | CHARACTER | 8   | MCA_LTPBSE_JOBID |             |
| 67      | (43) | CHARACTER | 1   | MCA_LTPBSE_STAT  |             |

| Offsets |      |           |     |                |             |
|---------|------|-----------|-----|----------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description |
| 0       | (0)  | STRUCTURE | 40  | MCASSXTR       |             |
| 0       | (0)  | ADDRESS   | 4   | MCAZSSXFSUSE   |             |
| 4       | (4)  | ADDRESS   | 4   | MCAZSSXFSUS2   |             |
| 8       | (8)  | ADDRESS   | 4   | MCAZSSXFSUSE_2 |             |
| 12      | (C)  | ADDRESS   | 4   | MCAZSSXFSUS2_2 |             |
| 16      | (10) | ADDRESS   | 4   | MCAZSVTXSUSE   |             |
| 20      | (14) | ADDRESS   | 4   | MCAZSVTXSUS2   |             |
| 24      | (18) | ADDRESS   | 4   | MCAZCLNXSUSE   |             |
| 28      | (1C) | ADDRESS   | 4   | MCAZCLNXSUS2   |             |
| 32      | (20) | ADDRESS   | 4   | MCASSXFR1      |             |
| 36      | (24) | CHARACTER | 1   | MCASSXREST     |             |
| 37      | (25) | CHARACTER | 3   | *              |             |

| Offsets |      |           |     |               |             |
|---------|------|-----------|-----|---------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description |
| 0       | (0)  | STRUCTURE | *   | MCAMCTAB      |             |
| 0       | (0)  | CHARACTER | 16  | MCAMCHDR      |             |
| 0       | (0)  | CHARACTER | 4   | MCAMCEYE      |             |
| 4       | (4)  | SIGNED    | 4   | MCAMCTOTENT   |             |
| 8       | (8)  | SIGNED    | 4   | MCAMCLASTENT  |             |
| 12      | (C)  | SIGNED    | 4   | MCAMCTABSIZE  |             |
| 16      | (10) | CHARACTER | 60  | MCAMCDATA (*) |             |
| 16      | (10) | CHARACTER | 16  | MCAMCSUCCADID |             |
| 32      | (20) | SIGNED    | 2   | MCAMCSUCCOPNO |             |
| 34      | (22) | CHARACTER | 16  | MCAMCPREADID  |             |
| 50      | (32) | SIGNED    | 2   | MCAMCPREOPNO  |             |
| 52      | (34) | SIGNED    | 2   | MCAMCCONDID   |             |
| 54      | (36) | CHARACTER | 1   | MCAMCTYPE     |             |



| Offsets |      |           |     |                 |             |
|---------|------|-----------|-----|-----------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description |
| 55      | (37) | CHARACTER | 1   | MCAMCMAND       |             |
| 56      | (38) | CHARACTER | 2   | *               |             |
| 58      | (3A) | CHARACTER | 7   | MCAMCIVLFROM    |             |
| 58      | (3A) | CHARACTER | 1   | MCAMCIVLFR_WHEN |             |
| 59      | (3B) | CHARACTER | 1   | MCAMCIVLFR_DAY  |             |
| 60      | (3C) | CHARACTER | 3   | MCAMCIVLFR_HHH  |             |
| 60      | (3C) | CHARACTER | 1   | *               |             |
| 61      | (3D) | CHARACTER | 2   | MCAMCIVLFR_HH   |             |
| 63      | (3F) | CHARACTER | 2   | MCAMCIVLFR_MM   |             |
| 65      | (41) | CHARACTER | 7   | MCAMCIVLTO      |             |
| 65      | (41) | CHARACTER | 1   | MCAMCIVLTO_WHEN |             |
| 66      | (42) | CHARACTER | 1   | MCAMCIVLTO_DAY  |             |
| 67      | (43) | CHARACTER | 3   | MCAMCIVLTO_HHH  |             |
| 67      | (43) | CHARACTER | 1   | *               |             |
| 68      | (44) | CHARACTER | 2   | MCAMCIVLTO_HH   |             |
| 70      | (46) | CHARACTER | 2   | MCAMCIVLTO_MM   |             |
| 72      | (48) | CHARACTER | 4   | MCAMCWDE        |             |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 0       | (0)  | STRUCTURE | 112 | MCADBPROC  |             |
| 0       | (0)  | CHARACTER | 8   | MCAADDUMP  |             |
| 8       | (8)  | CHARACTER | 8   | MCARDDUMP  |             |
| 16      | (10) | CHARACTER | 8   | MCAWSDUMP  |             |
| 24      | (18) | CHARACTER | 8   | MCAOIDUMP  |             |
| 32      | (20) | CHARACTER | 8   | MCASIDUMP  |             |
| 40      | (28) | CHARACTER | 8   | MCAJS1DUMP |             |
| 48      | (30) | CHARACTER | 8   | MCAJS2DUMP |             |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 56      | (38) | CHARACTER | 8   | MCAADREST  |             |
| 64      | (40) | CHARACTER | 8   | MCARDREST  |             |
| 72      | (48) | CHARACTER | 8   | MCAWSREST  |             |
| 80      | (50) | CHARACTER | 8   | MCAOIREST  |             |
| 88      | (58) | CHARACTER | 8   | MCASIREST  |             |
| 96      | (60) | CHARACTER | 8   | MCAJS1REST |             |
| 104     | (68) | CHARACTER | 8   | MCAJS2REST |             |

| Offsets |      |           |     |             |             |
|---------|------|-----------|-----|-------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description |
| 0       | (0)  | STRUCTURE | 88  | MCADBTRLTB  |             |
| 0       | (0)  | CHARACTER | 8   | MCAAD       |             |
| 0       | (0)  | CHARACTER | 4   | MCAADTRL    |             |
| 4       | (4)  | UNSIGNED  | 4   | MCAADTRLSEQ |             |
| 8       | (8)  | CHARACTER | 8   | MCAJV       |             |
| 8       | (8)  | CHARACTER | 4   | MCAJVTRL    |             |
| 12      | (C)  | UNSIGNED  | 4   | MCAJVTRLSEQ |             |
| 16      | (10) | CHARACTER | 8   | MCARD       |             |
| 16      | (10) | CHARACTER | 4   | MCARDTRL    |             |
| 20      | (14) | UNSIGNED  | 4   | MCARDTRLSEQ |             |
| 24      | (18) | CHARACTER | 8   | MCAOI       |             |
| 24      | (18) | CHARACTER | 4   | MCAOITRL    |             |
| 28      | (1C) | UNSIGNED  | 4   | MCAOITRLSEQ |             |
| 32      | (20) | CHARACTER | 8   | MCAWS       |             |
| 32      | (20) | CHARACTER | 4   | MCAWSTRL    |             |
| 36      | (24) | UNSIGNED  | 4   | MCAWSTRLSEQ |             |
| 40      | (28) | CHARACTER | 8   | MCAWSCL     |             |
| 40      | (28) | CHARACTER | 4   | MCAWSCLTRL  |             |

| Offsets |      |           |     |               |             |
|---------|------|-----------|-----|---------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description |
| 44      | (2C) | UNSIGNED  | 4   | MCAWSCLTRLSEQ |             |
| 48      | (30) | CHARACTER | 8   | MCACAL        |             |
| 48      | (30) | CHARACTER | 4   | MCACALTRL     |             |
| 52      | (34) | UNSIGNED  | 4   | MCACALTRLSEQ  |             |
| 56      | (38) | CHARACTER | 8   | MCAPER        |             |
| 56      | (38) | CHARACTER | 4   | MCAPERTRL     |             |
| 60      | (3C) | UNSIGNED  | 4   | MCAPERTRLSEQ  |             |
| 64      | (40) | CHARACTER | 8   | MCARUN        |             |
| 64      | (40) | CHARACTER | 4   | MCARUNTRL     |             |
| 68      | (44) | UNSIGNED  | 4   | MCARUNTRLSEQ  |             |
| 72      | (48) | CHARACTER | 8   | MCASI         |             |
| 72      | (48) | CHARACTER | 4   | MCASITRL      |             |
| 76      | (4C) | UNSIGNED  | 4   | MCASITRLSEQ   |             |
| 80      | (50) | CHARACTER | 8   | MCALTP        |             |
| 80      | (50) | CHARACTER | 4   | MCALTPTRL     |             |
| 84      | (54) | UNSIGNED  | 4   | MCALTPTRLSEQ  |             |

| Offsets |     |           |     |               |             |
|---------|-----|-----------|-----|---------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description |
| 0       | (0) | STRUCTURE | 8   | MCACOMPL      |             |
| 0       | (0) | ADDRESS   | 4   | MCACOMPOPRP   |             |
| 4       | (4) | ADDRESS   | 4   | MCACOMPLNEXTP |             |

| Offsets |     |           |     |             |             |
|---------|-----|-----------|-----|-------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description |
| 0       | (0) | STRUCTURE | 4   | MCAOPEXT    |             |
| 0       | (0) | UNSIGNED  | 3   | MCAOPEXTOCC |             |
| 3       | (3) | UNSIGNED  | 1   | MCAOPEXTOP  |             |

## Cross reference

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| DBAFail          | F2         | 40        | 3     |
| DBAREADY         | F2         | 80        | 3     |
| FMETHOD          | F3         | 02        | 3     |
| FPARSER          | F3         | 01        | 3     |
| FPROCIN          | F3         | 04        | 3     |
| JQUFAIL          | F2         | 10        | 3     |
| JQUREADY         | F2         | 20        | 3     |
| LOCKRC           | 164        |           | 2     |
| MCA              | 0          |           | 1     |
| MCA_CP1BSE_JOB   | 11         |           | 3     |
| MCA_CP1BSE_JOBID | 19         |           | 3     |
| MCA_CP1BSE_STAT  | 21         |           | 3     |
| MCA_CP2BSE_JOB   | 22         |           | 3     |
| MCA_CP2BSE_JOBID | 2A         |           | 3     |
| MCA_CP2BSE_STAT  | 32         |           | 3     |
| MCA_LTPBSE_JOB   | 33         |           | 3     |
| MCA_LTPBSE_JOBID | 3B         |           | 3     |
| MCA_LTPBSE_STAT  | 43         |           | 3     |
| MCA_NCPBSE_JOB   | 0          |           | 3     |
| MCA_NCPBSE_JOBID | 8          |           | 3     |
| MCA_NCPBSE_STAT  | 10         |           | 3     |
| MCA_TRANSFER     | 0          |           | 2     |
| MCAACEE          | E          | 20        | 3     |
| MCAAD            | 0          |           | 2     |
| MCAADDUMP        | 0          |           | 2     |
| MCAADEX          | 13C        | 10        | 3     |
| MCAADGD          | 13C        | 80        | 3     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| MCAADGR          | 138        | 20        | 3     |
| MCAADINUSE       | 152        | 02        | 3     |
| MCAADJB          | 138        | 10        | 3     |
| MCAADNM          | 138        | 80        | 3     |
| MCAADOW          | 138        | 40        | 3     |
| MCAADREST        | 38         |           | 2     |
| MCAADRS          | 13D        | 01        | 3     |
| MCAADSE          | 13C        | 04        | 3     |
| MCAADTRL         | 0          |           | 3     |
| MCAADTRLSEQ      | 4          |           | 3     |
| MCAADUF          | 13D        | 20        | 3     |
| MCAADVERRUN      | 152        | 01        | 3     |
| MCAADX           | D8         |           | 2     |
| MCAANCQP         | 0          |           | 2     |
| MCAANCQPT        | 8          |           | 2     |
| MCAANCQP1        | 0          |           | 2     |
| MCAANCQP2        | 4          |           | 2     |
| MCAANMMP         | 9C         |           | 2     |
| MCAAREAS         | 4C         |           | 2     |
| MCAAREP          | 70         |           | 2     |
| MCAASCB          | 10         |           | 2     |
| MCAASIP          | 6C         |           | 2     |
| MCAASXB          | E          | 40        | 3     |
| MCAAVILDST       | 38         |           | 2     |
| MCABEXP          | D4         |           | 2     |
| MCABK_BKMODE_MAJ | F3         | 80        | 3     |
| MCABK_BKMODE_NMM | F3         | 40        | 3     |
| MCABK_CLONING    | F2         | 01        | 3     |

| Name                    | Hex Offset | Hex Value | Level |
|-------------------------|------------|-----------|-------|
| MCABKECB                | 128        |           | 2     |
| MCABKINFO               | 0          |           | 1     |
| MCABKINFOP              | FC         |           | 2     |
| MCABLRC                 | 156        |           | 2     |
| MCABTCAP                | 11C        |           | 2     |
| MCABULKDISCOVERYRUNNING | 13E        | 01        | 3     |
| MCACAL                  | 30         |           | 2     |
| MCACALTRL               | 30         |           | 3     |
| MCACALTRLSEQ            | 34         |           | 3     |
| MCACJES                 | F9         |           | 2     |
| MCACJPOOLID             | E0         |           | 2     |
| MCACKPTP                | 13C        |           | 2     |
| MCACCLASS               | 106        |           | 2     |
| MCACLCN                 | 13A        | 02        | 3     |
| MCACLNJOB               | 128        |           | 2     |
| MCACOMPL                | 0          |           | 1     |
| MCACOMPLNEXTTP          | 4          |           | 2     |
| MCACOMPLP               | D8         |           | 2     |
| MCACOMPOPRP             | 0          |           | 2     |
| MCACONC                 | 16B        |           | 3     |
| MCACONNECTED            | 113        |           | 2     |
| MCACONTCH               | 8C         |           | 2     |
| MCACPAD                 | 138        | 08        | 3     |
| MCACPEX                 | 13C        | 08        | 3     |
| MCACPGD                 | 13B        | 02        | 3     |
| MCACPGR                 | 138        | 02        | 3     |
| MCACPHFLOW              | D0         |           | 2     |
| MCACPJB                 | 138        | 01        | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| MCACPNQ     | 58         |           | 2     |
| MCACPOW     | 138        | 04        | 3     |
| MCACPRS     | 13D        | 02        | 3     |
| MCACPSE     | 13C        | 02        | 3     |
| MCACPUF     | 13D        | 10        | 3     |
| MCACPWO     | 13B        | 04        | 3     |
| MCACPWS     | 139        | 80        | 3     |
| MCAC_TOKEN  | 148        |           | 2     |
| MCADBG      | 13E        | 08        | 3     |
| MCADBG_P    | 158        |           | 2     |
| MCADBPROC   | 0          |           | 1     |
| MCADBPROCP  | F8         |           | 2     |
| MCADBRP     | 13C        | 01        | 3     |
| MCADBTRLTB  | 0          |           | 1     |
| MCADBTRLTBP | F4         |           | 2     |
| MCADDRSPC   | 12D        |           | 2     |
| MCADESC     | 0          |           | 2     |
| MCADIAP     | 54         |           | 2     |
| MCADSCLAS   | 122        |           | 2     |
| MCADSINI    | 14         |           | 2     |
| MCADSIOX    | 10         |           | 2     |
| MCADSTORE   | F2         |           | 2     |
| MCADSV_AD   | 0          |           | 2     |
| MCADSV_IA   | 10         |           | 2     |
| MCADSV_OP   | 1A         |           | 2     |
| MCADSVIEW   | 0          |           | 1     |
| MCADSVIEWP  | 28         |           | 2     |
| MCADTBAX    | 34         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| MCAEDPB      | 40         |           | 2     |
| MCAEDPCONVP  | 118        |           | 2     |
| MCAEDPW      | F          | 20        | 3     |
| MCAEND       | 188        |           | 2     |
| MCAENFTOK41  | 174        |           | 2     |
| MCAENFTOK53  | 180        |           | 2     |
| MCAENFTOK57  | 16C        |           | 2     |
| MCAESA       | E          | 08        | 3     |
| MCAETAD      | 13B        | 40        | 3     |
| MCAETNM      | 13B        | 80        | 3     |
| MCAETTP      | E4         |           | 2     |
| MCAEVHX      | CC         |           | 2     |
| MCAEXIDB     | 152        | 80        | 3     |
| MCAEXT       | 0          |           | 1     |
| MCAEXTP      | 17C        |           | 2     |
| MCAE105      | 152        | 20        | 3     |
| MCAFARB      | 160        |           | 2     |
| MCAFINDMEM   | 168        |           | 2     |
| MCAFLAGS     | E          |           | 2     |
| MCAFLAGS2    | 13E        |           | 2     |
| MCAFLQUE     | 0          |           | 1     |
| MCAF MID     | 6          |           | 3     |
| MCAFSRAP     | 78         |           | 2     |
| MCAFTAB      | 1C         |           | 2     |
| MCAGCAMTOKEN | 88         |           | 2     |
| MCAGMTOF     | EE         |           | 2     |
| MCAGMTSEC    | F4         |           | 2     |
| MCAG1SUM     | A4         |           | 2     |



| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| MCAG1X       | A0         |           | 2     |
| MCAG2SUM     | AC         |           | 2     |
| MCAG2X       | A8         |           | 2     |
| MCAG3SUM     | B4         |           | 2     |
| MCAG3X       | B0         |           | 2     |
| MCAG4SUM     | BC         |           | 2     |
| MCAG4X       | B8         |           | 2     |
| MCAG5SUM     | C4         |           | 2     |
| MCAG5X       | C0         |           | 2     |
| MCAHCM       | 90         |           | 2     |
| MCAHLPPOOLID | E4         |           | 2     |
| MCAHTCA      | 3C         |           | 2     |
| MCAHTCAUX    | 44         |           | 2     |
| MCAHTCAUXN   | 40         |           | 2     |
| MCAHTDBFP    | 140        |           | 2     |
| MCAHTEND     | C          |           | 2     |
| MCAHTFIX     | 0          |           | 2     |
| MCAHTNEXT    | 0          |           | 3     |
| MCAHTOFF     | 8          |           | 3     |
| MCAHTPAGE    | 0          |           | 1     |
| MCAHTSA      | 7C         |           | 2     |
| MCAHTSAUX    | 78         |           | 2     |
| MCAHTSAUXN   | 74         |           | 2     |
| MCAHTTOT     | 4          |           | 3     |
| MCAID        | 94         |           | 2     |
| MCAIDECB     | E8         |           | 2     |
| MCAJANCP     | 60         |           | 2     |
| MCAJCAD      | 139        | 40        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| MCAJCGR       | 139        | 04        | 3     |
| MCAJCJB       | 139        | 20        | 3     |
| MCAJCLDB      | 152        | 40        | 3     |
| MCAJCOW       | 139        | 08        | 3     |
| MCAJCWS       | 139        | 10        | 3     |
| MCAJEKFP      | 58         |           | 2     |
| MCAJEKFR      | 54         |           | 2     |
| MCAJEKLASTIP  | 6C         |           | 2     |
| MCAJEKLASTIPO | 70         |           | 2     |
| MCAJEKLP      | 5C         |           | 2     |
| MCAJES        | F8         |           | 2     |
| MCAJESFMID    | 12E        |           | 2     |
| MCAJLD        | 13D        | 80        | 3     |
| MCAJLM        | 13D        | 40        | 3     |
| MCAJNODENO    | 72         |           | 2     |
| MCAJNOFLP     | 64         |           | 2     |
| MCAJNOFP      | 60         |           | 2     |
| MCAJNOFR      | 50         |           | 2     |
| MCAJNOLLP     | 68         |           | 2     |
| MCAJOPTS      | 98         |           | 2     |
| MCAJS1DUMP    | 28         |           | 2     |
| MCAJS1REST    | 60         |           | 2     |
| MCAJS2DUMP    | 30         |           | 2     |
| MCAJS2REST    | 68         |           | 2     |
| MCAJTAB       | C          |           | 2     |
| MCAJTBLOCK    | 13E        | 04        | 3     |
| MCAJTBMSG     | E8         |           | 2     |
| MCAJTBP       | 18         |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| MCAJTBPMMSG    | EC         |           | 2     |
| MCAJBTDESC     | 20         |           | 2     |
| MCAJBTNUM      | 2C         |           | 2     |
| MCAJV          | 8          |           | 2     |
| MCAJVTRL       | 8          |           | 3     |
| MCAJVTRLSEQ    | C          |           | 3     |
| MCALEVEL       | 4          |           | 2     |
| MCALLOPT       | 137        |           | 2     |
| MCALOCK2B      | 13F        | 80        | 3     |
| MCALOGRCEMPTY  | 13F        | 08        | 3     |
| MCALOGRCCLDONE | 13F        | 02        | 3     |
| MCALOGRCOPEN   | 13F        | 10        | 3     |
| MCALOGRCUPEND  | 13F        | 04        | 3     |
| MCALOOP        | 153        | 10        | 3     |
| MCALTAD        | 139        | 02        | 3     |
| MCALTGD        | 13B        | 01        | 3     |
| MCALTOW        | 139        | 01        | 3     |
| MCALTP         | 50         |           | 2     |
| MCALTPHDR      | 124        |           | 2     |
| MCALTPTRL      | 50         |           | 3     |
| MCALTPTRLSEQ   | 54         |           | 3     |
| MCALVCK        | DC         |           | 2     |
| MCAMAJD        | F2         | 04        | 3     |
| MCAMAJNM       | FE         |           | 2     |
| MCAMAXSUB      | D4         |           | 2     |
| MCAMCCONDID    | 34         |           | 3     |
| MCAMCDATA      | 10         |           | 2     |
| MCAMCEYE       | 0          |           | 3     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| MCAMCHDR        | 0          |           | 2     |
| MCAMCIVLFR_DAY  | 3B         |           | 4     |
| MCAMCIVLFR_HH   | 3D         |           | 5     |
| MCAMCIVLFR_HHH  | 3C         |           | 4     |
| MCAMCIVLFR_MM   | 3F         |           | 4     |
| MCAMCIVLFR_WHEN | 3A         |           | 4     |
| MCAMCIVLFROM    | 3A         |           | 3     |
| MCAMCIVLTO      | 41         |           | 3     |
| MCAMCIVLTO_DAY  | 42         |           | 4     |
| MCAMCIVLTO_HH   | 44         |           | 5     |
| MCAMCIVLTO_HHH  | 43         |           | 4     |
| MCAMCIVLTO_MM   | 46         |           | 4     |
| MCAMCIVLTO_WHEN | 41         |           | 4     |
| MCAMCLASTENT    | 8          |           | 3     |
| MCAMCMAND       | 37         |           | 3     |
| MCAMCPREADID    | 22         |           | 3     |
| MCAMCPREOPNO    | 32         |           | 3     |
| MCAMCPX         | D0         |           | 2     |
| MCAMCSUCCADID   | 10         |           | 3     |
| MCAMCSUCCOPNO   | 20         |           | 3     |
| MCAMCTAB        | 0          |           | 1     |
| MCAMCTABP       | CC         |           | 2     |
| MCAMCTABSIZE    | C          |           | 3     |
| MCAMCTOTENT     | 4          |           | 3     |
| MCAMCTYPE       | 36         |           | 3     |
| MCAMCWDE        | 48         |           | 3     |
| MCAMLOCKSKIP    | 13F        | 01        | 3     |
| MCAMLOG         | E          | 02        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| MCAMLOGD      | 15C        |           | 2     |
| MCAMLOGPROC   | 12C        |           | 2     |
| MCAMLOG2      | 153        | 40        | 3     |
| MCAMLOG2CNT   | 138        |           | 2     |
| MCAMLOG2INUSE | 153        | 20        | 3     |
| MCAMLOG2LIM   | 134        |           | 2     |
| MCAMSGI       | 178        |           | 2     |
| MCAMSGX       | A4         |           | 2     |
| MCAMTCB       | 14         |           | 2     |
| MCAMVDEADL    | 0          |           | 1     |
| MCAMVDEADLP   | 94         |           | 2     |
| MCAMVDLDATE   | 0          |           | 2     |
| MCAMVDLTIME   | 6          |           | 2     |
| MCANABB       | 50         |           | 2     |
| MCANEWP       | F0         |           | 2     |
| MCANJENM      | 10E        |           | 2     |
| MCANM2P       | 100        |           | 2     |
| MCANMMB       | 3C         |           | 2     |
| MCANOPRM      | F          | 40        | 3     |
| MCANOWX       | B8         |           | 2     |
| MCANSUBS      | EC         |           | 2     |
| MCANVID       | 11A        |           | 2     |
| MCAN069       | 152        | 08        | 3     |
| MCAOI         | 18         |           | 2     |
| MCAOIAD       | 13A        | 80        | 3     |
| MCAOIDUMP     | 18         |           | 2     |
| MCAOIREST     | 50         |           | 2     |
| MCAOITRL      | 18         |           | 3     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| MCAOITRLSEQ  | 1C         |           | 3     |
| MCAOPECB     | 2C         |           | 2     |
| MCAOPERDESC  | 0          |           | 2     |
| MCAOPERNUM   | C          |           | 2     |
| MCAOPEXT     | 0          |           | 1     |
| MCAOPEXTOCC  | 0          |           | 2     |
| MCAOPEXTOP   | 3          |           | 2     |
| MCAOPEXTP    | DC         |           | 2     |
| MCAOPTMEM    | 2C         |           | 2     |
| MCAOPTS      | 18         |           | 2     |
| MCAOUCM      | 98         |           | 2     |
| MCAPACE      | F          | 08        | 3     |
| MCAPDSX      | AC         |           | 2     |
| MCAPER       | 38         |           | 2     |
| MCAPERF      | 152        |           | 2     |
| MCAPERFJTB   | 0          |           | 1     |
| MCAPERFJTBP  | 48         |           | 2     |
| MCAPERTRL    | 38         |           | 3     |
| MCAPERTRLSEQ | 3C         |           | 3     |
| MCAPHBP      | 124        |           | 2     |
| MCAPIF       | 153        | 80        | 3     |
| MCAPLGLSTP   | 9C         |           | 2     |
| MCAPRIP      | 44         |           | 2     |
| MCAPRMX      | B0         |           | 2     |
| MCAPRPN      | 13A        | 01        | 3     |
| MCAQFCAN     | F          | 80        | 3     |
| MCAQFECB     | 68         |           | 2     |
| MCAQFQN      | 116        |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| MCAQUELEN    | 150        |           | 2     |
| MCAQUEPTR    | A0         |           | 2     |
| MCAQUEX      | B4         |           | 2     |
| MCARACF      | E          | 10        | 3     |
| MCARACRTRC   | F0         |           | 2     |
| MCARD        | 10         |           | 2     |
| MCARDDUMP    | 8          |           | 2     |
| MCARDREST    | 40         |           | 2     |
| MCARDRN      | 13C        | 20        | 3     |
| MCARDTRL     | 10         |           | 3     |
| MCARDTRLSEQ  | 14         |           | 3     |
| MCAREFRCP    | F2         | 08        | 3     |
| MCARELX      | C8         |           | 2     |
| MCARESTART   | 13F        | 20        | 3     |
| MCARGOW      | 13D        | 04        | 3     |
| MCARGRN      | 13D        | 08        | 3     |
| MCARLAD      | 13A        | 20        | 3     |
| MCARLGR      | 13A        | 08        | 3     |
| MCARLOW      | 13A        | 10        | 3     |
| MCARLWS      | 13A        | 04        | 3     |
| MCARLWST     | 13C        | 40        | 3     |
| MCARODMOPT   | 8C         |           | 2     |
| MCARREP      | 88         |           | 2     |
| MCARSIP      | 84         |           | 2     |
| MCARTRQ      | F          | 02        | 3     |
| MCARUN       | 40         |           | 2     |
| MCARUNTRL    | 40         |           | 3     |
| MCARUNTRLSEQ | 44         |           | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| MCASCAFFO   | 120        |           | 2     |
| MCASCLIBDCB | 144        |           | 2     |
| MCASEQX     | A8         |           | 2     |
| MCASHFT     | F2         | 02        | 3     |
| MCASI       | 48         |           | 2     |
| MCASIDUMP   | 20         |           | 2     |
| MCASIREST   | 58         |           | 2     |
| MCASITRL    | 48         |           | 3     |
| MCASITRLSEQ | 4C         |           | 3     |
| MCASPIN     | 123        |           | 2     |
| MCASP4      | E          | 04        | 3     |
| MCASP422    | F          | 10        | 3     |
| MCASP52     | 13E        | 80        | 3     |
| MCASRAP     | 48         |           | 2     |
| MCASRNM     | 13B        | 20        | 3     |
| MCASSCT     | 34         |           | 2     |
| MCASSNM     | FA         |           | 2     |
| MCASSVT     | 30         |           | 2     |
| MCASSXFR1   | 20         |           | 2     |
| MCASSXP     | 80         |           | 2     |
| MCASSXREST  | 24         |           | 2     |
| MCASSXTR    | 0          |           | 1     |
| MCASSXTRP   | 90         |           | 2     |
| MCASTECS    | 28         |           | 2     |
| MCASTEMJ    | 20         |           | 2     |
| MCASTENM    | 24         |           | 2     |
| MCASTOPC    | 13F        | 40        | 3     |
| MCASUB      | 7C         |           | 2     |



| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| MCASUBRS        | 138        |           | 2     |
| MCASUBX         | C4         |           | 2     |
| MCASURE         | 4C         |           | 2     |
| MCASYMB         | 13E        | 40        | 3     |
| MCASYSNAME      | 4          |           | 2     |
| MCATAKEOV       | F3         | 20        | 3     |
| MCATCPR         | F          | 01        | 3     |
| MCATDCHK        | 152        | 04        | 3     |
| MCATIMEDESC     | 10         |           | 2     |
| MCATIMENUM      | 1C         |           | 2     |
| MCATIMESTA      | 154        |           | 2     |
| MCATMLOG        | 5C         |           | 2     |
| MCATPLGYP       | 140        |           | 2     |
| MCATRACES       | 136        |           | 2     |
| MCATRKBKUP      | 112        |           | 2     |
| MCATRKCNTT      | 111        |           | 2     |
| MCATRKECBPTR    | 114        |           | 2     |
| MCATRKTCPA      | 110        |           | 2     |
| MCATSO          | E          | 80        | 3     |
| MCATSOB         | 38         |           | 2     |
| MCATSRAP        | 74         |           | 2     |
| MCATSYNCECBP    | 10C        |           | 2     |
| MCATTR          | 168        |           | 3     |
| MCATWSCNTLSTART | 13E        | 02        | 3     |
| MCAUPACE        | F          | 04        | 3     |
| MCAUSERF        | 14C        |           | 2     |
| MCAUX002        | 13E        | 20        | 3     |
| MCAUX014        | 184        |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| MCAVENDCH     | 8F         |           | 2     |
| MCAVER        | 4          |           | 3     |
| MCAVJVN       | 13B        | 08        | 3     |
| MCAVJVO       | 13B        | 10        | 3     |
| MCAVSAM       | BC         |           | 2     |
| MCAVSAMB      | C0         |           | 2     |
| MCAVSTRCH     | 8D         |           | 2     |
| MCAWAENQ      | 13E        | 10        | 3     |
| MCAWLMQSZ     | 170        |           | 2     |
| MCAWS         | 20         |           | 2     |
| MCAWSCL       | 28         |           | 2     |
| MCAWSCLTRL    | 28         |           | 3     |
| MCAWSCLTRLSEQ | 2C         |           | 3     |
| MCAWSDUMP     | 10         |           | 2     |
| MCAWSREST     | 48         |           | 2     |
| MCAWSTRL      | 20         |           | 3     |
| MCAWSTRLSEQ   | 24         |           | 3     |
| MCAWSWS       | 13A        | 40        | 3     |
| MCAXSIP       | 64         |           | 2     |
| MCAXT50Z      | C8         |           | 2     |
| MCAX14NUMR    | 20         |           | 2     |
| MCAX14RSIZ    | 24         |           | 2     |
| MCAX14TABP    | 1C         |           | 2     |
| MCAZCLNXSUSE  | 18         |           | 2     |
| MCAZCLNXSUS2  | 1C         |           | 2     |
| MCAZNQD       | E0         |           | 2     |
| MCAZRTAB      | 80         |           | 2     |
| MCAZRRCM      | 84         |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| MCAZSSXFSUSE   | 0          |           | 2     |
| MCAZSSXFSUSE_2 | 8          |           | 2     |
| MCAZSSXFSUS2   | 4          |           | 2     |
| MCAZSSXFSUS2_2 | C          |           | 2     |
| MCAZSVTXSUSE   | 10         |           | 2     |
| MCAZSVTXSUS2   | 14         |           | 2     |
| MCAZZSPIN      | 136        | 80        | 3     |
| MCAZ308        | 152        | 10        | 3     |
| MCA313         | E          | 01        | 3     |

## MFB - Missed feedback report record in DP

### Example

Name : DCLMFB

Function:

Describes layout of feedback records representing report data on operations (and occurrences) in the new current plan. The records have the standard recsize and keysize of dpin records.

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 0       | (0)  | STRUCTURE | 114 | MFBAREA    |                          |
| 0       | (0)  | CHARACTER | 114 | MFBKEY     | KEY                      |
| 0       | (0)  | SIGNED    | 2   | MFBTYPE    | TYPE IS ALWAYS 9         |
| 2       | (2)  | CHARACTER | 36  | *          | ADJUST TO ADIDOFFS       |
| 38      | (26) | CHARACTER | 26  | MFB OCCID  | IDENTIFICATION           |
| 38      | (26) | CHARACTER | 16  | MFBADID    | ADID OF OCC OF OPERATION |
| 54      | (36) | CHARACTER | 6   | MFBIADT    | APPL INPUT DATE          |
| 54      | (36) | CHARACTER | 4   | *          |                          |
| 58      | (3A) | CHARACTER | 2   | MFBIADD    | DAY                      |
| 60      | (3C) | CHARACTER | 4   | MFBIAHM    | APPL INPUT TIME          |
| 60      | (3C) | CHARACTER | 2   | MFBIAAH    | HOURS                    |

| Offsets |      |           |     |            |                                                                 |
|---------|------|-----------|-----|------------|-----------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                     |
| 62      | (3E) | CHARACTER | 2   | MFBIA MM   | MINUTES                                                         |
| 64      | (40) | CHARACTER | 6   | MFBOPID    | OPERATION ID                                                    |
| 64      | (40) | CHARACTER | 4   | MFBOP      | WORKSTATION ID AND                                              |
| 68      | (44) | SIGNED    | 2   | MFBOPNO    | OPERATION NUMBER                                                |
| 70      | (46) | CHARACTER | 4   | MFBPLDUR   | PLANNED DURATION                                                |
| 70      | (46) | CHARACTER | 2   | MFBPLHH    | HOURS                                                           |
| 72      | (48) | CHARACTER | 2   | MFBPLMM    | MINUTES                                                         |
| 74      | (4A) | CHARACTER | 6   | MFBACDUR   | ACTUAL DURATION                                                 |
| 74      | (4A) | CHARACTER | 4   | MFBACHH    | HOURS                                                           |
| 78      | (4E) | CHARACTER | 2   | MFBACMM    | MINUTES                                                         |
| 80      | (50) | CHARACTER | 1   | MFBREASN   | REASON FOR MISSED FDB<br>L=LIMIT EXCEEDED<br>O=AD RECORD IN USE |
| 81      | (51) | CHARACTER | 1   | MFBORIGIN  | ORIGIN                                                          |
| 82      | (52) | SIGNED    | 2   | MFB RUNID  | RUN CYCLE ID                                                    |
| 84      | (54) | CHARACTER | 6   | MFBPLDEAD  | PLANNED DEADLINE                                                |
| 84      | (54) | CHARACTER | 2   | MFBPLDD    | DAY OFFSET DD                                                   |
| 86      | (56) | CHARACTER | 2   | MFBPLDH    | HOURS HH                                                        |
| 88      | (58) | CHARACTER | 2   | MFBPLDM    | MINUTES MM                                                      |
| 90      | (5A) | CHARACTER | 10  | MFBACDEAD  | ACTUAL DEADLINE                                                 |
| 90      | (5A) | CHARACTER | 4   | *          |                                                                 |
| 94      | (5E) | CHARACTER | 2   | MFBACDD    | DD                                                              |
| 96      | (60) | CHARACTER | 2   | MFBACDH    | HOURS HH                                                        |
| 98      | (62) | CHARACTER | 2   | MFBACDM    | MINUTES MM                                                      |
| 100     | (64) | CHARACTER | 14  | *          | TO ADD UP TO KEYSIZE                                            |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| MFBACDD   | 5E         |           | 4     |
| MFBACDEAD | 5A         |           | 3     |
| MFBACDH   | 60         |           | 4     |
| MFBACDM   | 62         |           | 4     |
| MFBACDUR  | 4A         |           | 3     |
| MFBACHH   | 4A         |           | 4     |
| MFBACMM   | 4E         |           | 4     |
| MFBADID   | 26         |           | 4     |
| MFBAREA   | 0          |           | 1     |
| MFBIAADD  | 3A         |           | 5     |
| MFBIA DT  | 36         |           | 4     |
| MFBIAHH   | 3C         |           | 5     |
| MFBIAHM   | 3C         |           | 4     |
| MFBIA MM  | 3E         |           | 5     |
| MFBKEY    | 0          |           | 2     |
| MFB OCCID | 26         |           | 3     |
| MFBOP     | 40         |           | 4     |
| MFBOPID   | 40         |           | 3     |
| MFBOPNO   | 44         |           | 4     |
| MFBORIGIN | 51         |           | 3     |
| MFBPLDD   | 54         |           | 4     |
| MFBPLDH   | 56         |           | 4     |
| MFBPLDM   | 58         |           | 4     |
| MFBPLDEAD | 54         |           | 3     |
| MFBPLDUR  | 46         |           | 3     |
| MFBPLHH   | 46         |           | 4     |
| MFBPLMM   | 48         |           | 4     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| MFBREASN | 50         |           | 3     |
| MFBRUNID | 52         |           | 3     |
| MFBTYPE  | 0          |           | 3     |

## MTD - Track information

Name: DCLMTD

| Offsets |     |           |     |            |                    |
|---------|-----|-----------|-----|------------|--------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description        |
| 0       | (0) | STRUCTURE | *   | MTD        | MCP TRACK ENTRY    |
| 0       | (0) | CHARACTER | 4   | MTDHEAD    | HEADER OF ENTRY    |
| 0       | (0) | SIGNED    | 2   | MTDTYPE    | TYPE OF ENTRY      |
| 2       | (2) | SIGNED    | 2   | MTDOPER    | OPERATION NUMBER   |
| 4       | (4) | CHARACTER | *   | MTDBODY    | TRACKING DATA BODY |

| Offsets |      |           |     |                |                            |
|---------|------|-----------|-----|----------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                |
| 0       | (0)  | STRUCTURE | 68  | MTD_ADD_OP     | ADDCHANGE OPER ENTRY (1)   |
| 0       | (0)  | CHARACTER | 8   | MTDJOB         | JOB NAME (ALSO IN JOBOPTS) |
| 8       | (8)  | CHARACTER | 4   | MTDWSNM        | WORKSTATION NAME           |
| 12      | (C)  | CHARACTER | 24  | MTDTEXT        | OPERATION TEXT             |
| 36      | (24) | SIGNED    | 2   | *              | free                       |
| 38      | (26) | SIGNED    | 2   | MTDPSUSE       | PARALLEL SERVERS           |
| 40      | (28) | SIGNED    | 2   | MTDR1USE       | RESOURCE R1 NEEDED         |
| 42      | (2A) | SIGNED    | 2   | MTDR2USE       | RESOURCE R2 NEEDED         |
| 44      | (2C) | CHARACTER | 16  | MTD_userdata   | operation userdata         |
| 60      | (3C) | SIGNED    | 4   | MTDEDUR        | ESTIMATED DURATION         |
| 64      | (40) | SIGNED    | 4   | MTDEDURVAR     | VARIANCE IN DUR            |
| 68      | (44) | CHARACTER |     | MTD_ADD_OP_END | END OF ENTRY               |

| Offsets |      |           |     |                |                         |
|---------|------|-----------|-----|----------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description             |
| 0       | (0)  | STRUCTURE | 52  | MTD_ADD_SR     | ADDCHANGE SPEC RES (3)  |
| 0       | (0)  | CHARACTER | 44  | MTD_DEL_SR     | DELETE SEPC RES (4)     |
| 0       | (0)  | CHARACTER | 44  | MTDRESN        | SPECIAL RESOURCE NAME   |
| 44      | (2C) | CHARACTER |     | MTD_DEL_SR_END | END OF ENTRY            |
| 44      | (2C) | CHARACTER | 1   | MTDREST        | RESOURCE TYPE (SHREXCL) |
| 45      | (2D) | CHARACTER | 1   | MTDRESE        | On error flag           |
| 46      | (2E) | CHARACTER | 1   | MTDRESC        | ON Complete Flag        |
| 47      | (2F) | CHARACTER | 1   | *              | free                    |
| 48      | (30) | SIGNED    | 4   | MTDRESQ        | RESOURCE quantity       |
| 52      | (34) | CHARACTER |     | MTD_ADD_SR_END | END OF ENTRY            |

| Offsets |     |           |     |             |                        |
|---------|-----|-----------|-----|-------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description            |
| 0       | (0) | STRUCTURE | 35  | MTD_OPTS    | JOB OPTIONS (5)        |
| 0       | (0) | CHARACTER | 8   | MTDOPTJN    | JOB NAME               |
| 8       | (8) | CHARACTER | 1   | MTDCCLASS   | JOBSYSOUT CLASS        |
| 9       | (9) | CHARACTER | 1   | MTDOPTS     | JOB OPTIONS            |
|         |     | 1... ..   |     | MTDAEC      | AUTOMATIC TRACKING     |
|         |     | .1.. ..   |     | MTDSUB      | AUTOMATIC SUBMIT       |
|         |     | ..1. .... |     | MTDAJR      | AUTOMATIC HOLDRELEASE  |
|         |     | ...1 .... |     | MTDTJT      | TIME JOB               |
|         |     | .... 1... |     | MTDCAN      | SUPPRESS IF LATE       |
|         |     | .... .1.. |     | MTDHRC      | HIGHEST RETCODE SET    |
|         |     | .... ..1. |     | mtddwto     | deadline wto           |
|         |     | .... ...1 |     | mtdcondrjob | cond recovery job      |
| 10      | (A) | CHARACTER | 1   | MTDOPTS2    | MORE OPTIONS           |
|         |     | 1... ..   |     | MTDRESTA    | RESTARTABLE            |
|         |     | .1.. .... |     | MTDDIRES    | RESTARTABLE BY INSTALL |

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
|         |     | ..1. .... |     | MTDRERUT   | REROUTEABLE            |
|         |     | ...1 .... |     | MTDDIRER   | REROUTEABLE BY INSTALL |
|         |     | .... 1... |     | mtdexpci   | Expanded JCL used      |
|         |     | .... .1.. |     | mtdusrsys  | User SYSOUT used       |
|         |     | .... ..1. |     | mtddclasst | class present          |
|         |     | .... ...1 |     | mtdformt   | form present           |
| 11      | (B) | CHARACTER | 4   | MTDHRCNE   | HIGHEST RETURN CODE    |
| 11      | (B) | CHARACTER | 2   | *          | HIGHEST RETURN CODE    |
| 13      | (D) | CHARACTER | 2   | MTDHRCNX   | HIGHEST RETURN CODE    |
| 15      | (F) | CHARACTER | 8   | MTDFORM    | FORM NUMBER            |

## 2 MTDWLMCrInd CHAR1 WLM critical indicatorxxWLM1a

| Offsets |      |           |     |             |                                                |
|---------|------|-----------|-----|-------------|------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                    |
| 23      | (17) | CHARACTER | 3   | MTDOPTS3    | MORE OPTIONS                                   |
| 23      | (17) | CHARACTER | 2   | MTDWLM      | WLM fields                                     |
| 23      | (17) | CHARACTER | 1   | MTDJOBCRT   | Critical Job                                   |
| 24      | (18) | CHARACTER | 1   | MTDJOBPOL   | Late Job Policy                                |
| 25      | (19) | CHARACTER | 1   | MTDOPTS5    |                                                |
|         |      | 1... .... |     | MTDMON      | Oper monitoring flag                           |
|         |      | .1.. .... |     | MTDCHGMON   | Set to ON if monitoring flag value has changed |
|         |      | ..1. .... |     | MTDSCRIPT   | free                                           |
|         |      | ...1 1111 |     | *           | free                                           |
| 26      | (1A) | CHARACTER | 9   | MTDOPTS4    | MORE OPTIONS                                   |
| 26      | (1A) | CHARACTER | 1   | mtdrcln     | Restart & Cleanup                              |
| 27      | (1B) | CHARACTER | 8   | mtdWLMclass | WLM Service Class                              |



| Offsets |      |           |     |              |              |
|---------|------|-----------|-----|--------------|--------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description  |
| 35      | (23) | CHARACTER |     | MTD_OPTS_END | END OF ENTRY |

| Offsets |     |           |     |                |                      |
|---------|-----|-----------|-----|----------------|----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description          |
| 0       | (0) | STRUCTURE | 10  | MTD_STATUS     | JOB STATUS (6)       |
| 0       | (0) | CHARACTER | 1   | MTDSTAT        | NEW OPERATION STATUS |
| 1       | (1) | CHARACTER | 8   | MTDSJOB        | JOBNAME              |
| 9       | (9) | CHARACTER | 1   | MTDOSTAT       | OLD OPERATION STATUS |
| 10      | (A) | CHARACTER |     | MTD_STATUS_END | END OF ENTRY         |

| Offsets |     |           |     |                |                      |
|---------|-----|-----------|-----|----------------|----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description          |
| 0       | (0) | STRUCTURE | 9   | MTD_ST_OL2     | JOB STATUS           |
| 0       | (0) | CHARACTER | 1   | MTDSTAT        | NEW OPERATION STATUS |
| 1       | (1) | CHARACTER | 8   | MTDSJOB        | JOBNAME              |
| 9       | (9) | CHARACTER |     | MTD_STATUS_END | END OF ENTRY         |

| Offsets |     |           |     |                |                      |
|---------|-----|-----------|-----|----------------|----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description          |
| 0       | (0) | STRUCTURE | 1   | MTD_ST_OLD     | JOB STATUS OLD (6)   |
| 0       | (0) | CHARACTER | 1   | MTDSTAT        | NEW OPERATION STATUS |
| 1       | (1) | CHARACTER |     | MTD_STATUS_END | END OF ENTRY         |

| Offsets |     |           |     |            |                         |
|---------|-----|-----------|-----|------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description             |
| 0       | (0) | STRUCTURE | 20  | MTD_TIMES  | CHG OPERATION TIMES (7) |
| 0       | (0) | CHARACTER | 10  | MTDIA      | OPR IA DATE AND TIME    |
| 0       | (0) | CHARACTER | 6   | MTDIAD     | DATE                    |
| 6       | (6) | CHARACTER | 4   | MTDIAT     | TIME                    |
| 10      | (A) | CHARACTER | 10  | MTDDL      | OPR DL DATE AND TIME    |

| Offsets |      |           |     |               |              |
|---------|------|-----------|-----|---------------|--------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description  |
| 10      | (A)  | CHARACTER | 6   | MTDDLD        | DATE         |
| 16      | (10) | CHARACTER | 4   | MTDDLT        | TIME         |
| 20      | (14) | CHARACTER |     | MTD_TIMES_END | END OF ENTRY |

| Offsets |      |           |     |                 |                                                                                                                                                                                                                   |
|---------|------|-----------|-----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description                                                                                                                                                                                                       |
| 0       | (0)  | STRUCTURE | 36  | MTD_EXT_DEP     | ADD (8) OR DELETE (9)<br>EXT DEP (OPER TO OPER),<br>ADD (36) OR DELETE (37)<br>EXT DEP (APPL TO OPER),<br>ADD (38) OR DELETE (39)<br>EXT DEP (APPL TO OPER),<br>ADD (40) OR DELETE (41)<br>EXT DEP (OPER TO APPL) |
| 0       | (0)  | CHARACTER | 5   | MTD_INT_DEP     | ADD (10) OR DELETE (11) INTERNAL<br>DEPENDENCY                                                                                                                                                                    |
| 0       | (0)  | SIGNED    | 2   | MTDDEPN         | PREDECESSOR OPER NUMBER                                                                                                                                                                                           |
| 2       | (2)  | CHARACTER | 1   | MTDDEPT         | DEPENDENCY TYPE                                                                                                                                                                                                   |
| 3       | (3)  | CHARACTER |     | MTD_DEL_INT_END | END OF ENTRY                                                                                                                                                                                                      |
| 3       | (3)  | SIGNED    | 2   | MTDTRST         | TRANSPORT TIME                                                                                                                                                                                                    |
| 5       | (5)  | CHARACTER |     | MTD_ADD_INT_END | END OF ENTRY                                                                                                                                                                                                      |
| 5       | (5)  | CHARACTER | 16  | MTDDAID         | PREDSUCC APPLIC NAME                                                                                                                                                                                              |
| 21      | (15) | CHARACTER | 10  | MTDDIA          | PREDSUCC IINPUT ARRIVAL                                                                                                                                                                                           |
| 21      | (15) | CHARACTER | 6   | MTDDIAD         | PREDSUCC IA DATE                                                                                                                                                                                                  |
| 27      | (1B) | CHARACTER | 4   | MTDDIAT         | PREDSUCC IA TIME                                                                                                                                                                                                  |
| 31      | (1F) | CHARACTER | 1   | MTD_FLAGS       | FLAGS                                                                                                                                                                                                             |
|         |      | 1... ..   |     | MTDCLPRE        | GROUP ADD CLOS PREC                                                                                                                                                                                               |
|         |      | .1.. ..   |     | MTDMANDP        | MANDATORY PEND PRED                                                                                                                                                                                               |
|         |      | ..1. .... |     | MTDSAME         | mcrit = same                                                                                                                                                                                                      |
|         |      | ...1 .... |     | MTDABS          | mcrit = absolute                                                                                                                                                                                                  |
|         |      | .... 1... |     | MTDREL          | mcrit = relative                                                                                                                                                                                                  |
|         |      | .... .1.. |     | MTDISMANDC      | PIF& groups mand c                                                                                                                                                                                                |

| Offsets |      |           |     |                 |                       |
|---------|------|-----------|-----|-----------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description           |
|         |      | .... ..1. |     | MTDISMANDP      | group mand p          |
|         |      | .... ..1  |     | *               | FREE                  |
| 32      | (20) | SIGNED    | 4   | MTD_IVL         | IVL RANGE (MAND PRED) |
| 32      | (20) | SIGNED    | 2   | MTD_IVL_L       | - left                |
| 34      | (22) | SIGNED    | 2   | MTD_IVL_R       | - right               |
| 36      | (24) | CHARACTER |     | MTD_DEL_EXT_END | END OF ENTRY          |
| 36      | (24) | CHARACTER |     | MTD_ADD_EXT_END | END OF ENTRY          |

| Offsets |     |           |     |             |                   |
|---------|-----|-----------|-----|-------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description       |
| 0       | (0) | STRUCTURE | 4   | MTD_ERC     | ERROR CODE CHANGE |
| 0       | (0) | CHARACTER | 4   | MTDERRC     | NEW ERROR CODE    |
| 4       | (4) | CHARACTER |     | MTD_ERC_END | END OF ENTRY      |

| Offsets |      |           |     |               |                       |
|---------|------|-----------|-----|---------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description           |
| 0       | (0)  | STRUCTURE | 62  | MTD_CH_CM     | DELCHANGE CM          |
| 0       | (0)  | CHARACTER | 1   | MTD_CH_CMACT  | Action D=DISCARD      |
| 1       | (1)  | CHARACTER | 8   | MTDSTEPNM     | Stepname              |
| 9       | (9)  | CHARACTER | 8   | MTDPROCSTP    | Proc stepname or blnk |
| 17      | (11) | CHARACTER | 44  | MTDDSN        | Dataset name          |
| 61      | (3D) | CHARACTER | 1   | MTD_disc_all  | Y = discard all ds    |
| 62      | (3E) | CHARACTER |     | MTD_CH_CM_END | END OF ENTRY          |

| Offsets |     |           |     |             |                                                                              |
|---------|-----|-----------|-----|-------------|------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description                                                                  |
| 0       | (0) | STRUCTURE | 14  | MTD_HOP     | HOP MTD part                                                                 |
| 0       | (0) | CHARACTER | 2   | MTD_HOP_REQ | MH = Man Hold MR = Man Release NP = Nop UN = Un-nop EX = Execute BD = Rebind |

| Offsets |     |           |     |                |                  |
|---------|-----|-----------|-----|----------------|------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description      |
| 2       | (2) | CHARACTER | 8   | MTD_HOP_JBNAME | Job name         |
| 10      | (A) | CHARACTER | 4   | MTD_HOP_WSNAME | Workstation name |
| 14      | (E) | CHARACTER |     | MTD_HOP_END    | end of entry     |

| Offsets |      |           |     |                 |                        |
|---------|------|-----------|-----|-----------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description            |
| 0       | (0)  | STRUCTURE | 64  | MTD_SLR         | SLR MTD part           |
| 0       | (0)  | CHARACTER | 8   | MTD_SLR_SSTEP   | Selected step          |
| 8       | (8)  | CHARACTER | 8   | MTD_SLR_SPSTEP  | Selected proc step     |
| 8       | (8)  | CHARACTER | 8   | mtd_slr_oudest  | exec destination       |
| 16      | (10) | CHARACTER | 8   | MTD_SLR_SESTEP  | Selected end step      |
| 24      | (18) | CHARACTER | 8   | MTD_SLR_SEPSTEP | Selected end procstep  |
| 32      | (20) | CHARACTER | 8   | MTD_SLR_CSTEP   | CM initiation step     |
| 40      | (28) | CHARACTER | 8   | MTD_SLR_CPSTEP  | CM initiation pstep    |
| 48      | (30) | CHARACTER | 8   | MTD_SLR_CESTEP  | CM initiation endstep  |
| 56      | (38) | CHARACTER | 8   | MTD_SLR_CEPSTEP | CM initiation end pstp |
| 64      | (40) | CHARACTER |     | MTD_SLR_END     | END OF ENTRY           |

| Offsets |      |           |     |                     |                        |
|---------|------|-----------|-----|---------------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)          | Description            |
| 0       | (0)  | STRUCTURE | 200 | MTD_ADD_EXTINFO     | DELETE Ext.Job N. (17) |
| 0       | (0)  | CHARACTER | 200 | MTD_DEL_EXTINFO     |                        |
| 0       | (0)  | CHARACTER | 54  | MTDEXTNAME          | Extended Job Name      |
| 54      | (36) | CHARACTER | 16  | mtdSEname           | Scheduling Env. Name   |
| 70      | (46) | CHARACTER | 130 | *                   | free                   |
| 200     | (C8) | CHARACTER |     | MTD_DEL_EXTINFO_END | END OF ENTRY           |
| 200     | (C8) | CHARACTER |     | MTD_ADD_EXTINFO_END | END OF ENTRY           |

| Offsets |       |           |     |                     |                                   |
|---------|-------|-----------|-----|---------------------|-----------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)          | Description                       |
| 0       | (0)   | STRUCTURE | 336 | MTD_ADD_AUTINFO     |                                   |
| 0       | (0)   | CHARACTER | 256 | MTDCOMMTEXT         | Command Text                      |
| 0       | (0)   | CHARACTER | 64  | MTDCOMMTEX1         | Command Text row 1                |
| 64      | (40)  | CHARACTER | 64  | MTDCOMMTEX2         | Command Text row 2                |
| 128     | (80)  | CHARACTER | 64  | MTDCOMMTEX3         | Command Text row 3                |
| 192     | (C0)  | CHARACTER | 64  | MTDCOMMTEX4         | Command Text row 4                |
| 256     | (100) | CHARACTER | 8   | MTDAUTOOPER         | Automation Operator               |
| 264     | (108) | CHARACTER | 8   | MTDSECELEM          | Security Element                  |
| 272     | (110) | CHARACTER | 64  | MTDCOMPINFO         | Completion Info                   |
| 336     | (150) | CHARACTER |     | MTD_ADD_AUTINFO_END | END OF ENTRY DELETE Aut Info (19) |

| Offsets |     |           |     |                     |              |
|---------|-----|-----------|-----|---------------------|--------------|
| Dec     | Hex | Type      | Len | Name (Dim)          | Description  |
| 0       | (0) | STRUCTURE |     | MTD_DEL_AUTINFO     |              |
| 0       | (0) | CHARACTER |     | MTD_DEL_AUTINFO_END | END OF ENTRY |

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 0       | (0)  | STRUCTURE | 32  | MTD_ADD_COND     |             |
| 0       | (0)  | SIGNED    | 2   | MTDACOND_CID     |             |
| 2       | (2)  | SIGNED    | 2   | MTDACOND_TYPE    |             |
| 4       | (4)  | SIGNED    | 2   | MTDACOND_SIMPNO  |             |
| 6       | (6)  | SIGNED    | 2   | MTDACOND_COUNT   |             |
| 8       | (8)  | CHARACTER | 24  | MTDACOND_DESC    |             |
| 32      | (20) | CHARACTER |     | MTD_ADD_COND_END |             |

| Offsets |     |           |     |              |             |
|---------|-----|-----------|-----|--------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description |
| 0       | (0) | STRUCTURE | 2   | MTD_DEL_COND |             |

| Offsets |     |           |     |                  |             |
|---------|-----|-----------|-----|------------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)       | Description |
| 0       | (0) | SIGNED    | 2   | MTDDCOND_CID     |             |
| 2       | (2) | CHARACTER |     | MTD_DEL_COND_END |             |

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 0       | (0)  | STRUCTURE | 30  | MTD_MOD_COND     |             |
| 0       | (0)  | SIGNED    | 2   | MTDMCOND_CID     |             |
| 2       | (2)  | CHARACTER | 24  | MTDMCOND_DESC    |             |
| 26      | (1A) | SIGNED    | 2   | MTDMCOND_TYPE    |             |
| 28      | (1C) | SIGNED    | 2   | MTDMCOND_COUNT   |             |
| 30      | (1E) | CHARACTER |     | MTD_MOD_COND_END |             |

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 0       | (0)  | STRUCTURE | 60  | MTD_ESIMP         |             |
| 0       | (0)  | CHARACTER | 33  | MTD_ISIMP         |             |
| 0       | (0)  | SIGNED    | 2   | MTDSIMP_CID       |             |
| 2       | (2)  | SIGNED    | 2   | MTDSIMP_OPNO      |             |
| 4       | (4)  | CHARACTER | 2   | MTDSIMP_TYP       | RC or ST    |
| 6       | (6)  | CHARACTER | 2   | MTDSIMP_LOG       | RG, EQ, NE  |
| 8       | (8)  | CHARACTER | 4   | MTDSIMP_VALRC     | RC1 value   |
| 12      | (C)  | CHARACTER | 4   | MTDSIMP_VALRC2    | RC2 value   |
| 16      | (10) | CHARACTER | 1   | MTDSIMP_VALST     | ST value    |
| 17      | (11) | CHARACTER | 8   | MTDSIMP_STEPN     | Step name   |
| 25      | (19) | CHARACTER | 8   | MTDSIMP_PROCS     | Proc Step   |
| 33      | (21) | CHARACTER |     | MTD_ADD_ISIMP_END |             |
| 33      | (21) | CHARACTER |     | MTD_DEL_ISIMP_END |             |
| 33      | (21) | CHARACTER | 16  | MTDSIMP_AID       |             |
| 49      | (31) | CHARACTER | 10  | MTDSIMP_IA        |             |

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 49      | (31) | CHARACTER | 6   | MTDSIMP_IAD       |             |
| 55      | (37) | CHARACTER | 4   | MTDSIMP_IAT       |             |
| 59      | (3B) | CHARACTER | 1   | MTDSIMPFLAGS      |             |
|         |      | 1... ..   |     | MTDSIMPCLOPRE     |             |
|         |      | .111 1111 |     | *                 |             |
| 60      | (3C) | CHARACTER |     | MTD_ADD_ESIMP_END |             |
| 60      | (3C) | CHARACTER |     | MTD_DEL_ESIMP_END |             |

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 0       | (0)  | STRUCTURE | 90  | MTD_EXT_CSUC      |             |
| 0       | (0)  | SIGNED    | 2   | MTDCSUC_CID       |             |
| 2       | (2)  | SIGNED    | 2   | MTDCSUC_OPNO      |             |
| 4       | (4)  | CHARACTER | 2   | MTDCSUC_TYP       |             |
| 6       | (6)  | CHARACTER | 2   | MTDCSUC_LOG       |             |
| 8       | (8)  | CHARACTER | 4   | MTDCSUC_VALRC     |             |
| 12      | (C)  | CHARACTER | 4   | MTDCSUC_VALRC2    |             |
| 16      | (10) | CHARACTER | 1   | MTDCSUC_VALST     |             |
| 17      | (11) | CHARACTER | 8   | MTDCSUC_STEPN     |             |
| 25      | (19) | CHARACTER | 8   | MTDCSUC_PROCS     |             |
| 33      | (21) | CHARACTER | 1   | *                 |             |
| 34      | (22) | CHARACTER | 16  | MTDCSUC_AID       |             |
| 50      | (32) | CHARACTER | 10  | MTDCSUC_IA        |             |
| 50      | (32) | CHARACTER | 6   | MTDCSUC_IAD       |             |
| 56      | (38) | CHARACTER | 4   | MTDCSUC_IAT       |             |
| 60      | (3C) | CHARACTER | 30  | MTDCSUC_COND      |             |
| 60      | (3C) | CHARACTER | 24  | MTDCSUC_CONDDDESC |             |
| 84      | (54) | SIGNED    | 2   | MTDCSUC_CONDTYPE  |             |

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 86      | (56) | SIGNED    | 2   | MTDCSUC_CONDCNT  |             |
| 88      | (58) | SIGNED    | 2   | MTDCSUC_CONDSNO  |             |
| 90      | (5A) | CHARACTER |     | MTD_EXT_CSUC_END |             |

| Offsets |      |           |     |                |             |
|---------|------|-----------|-----|----------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description |
| 0       | (0)  | STRUCTURE | 60  | MTD_ESETST     |             |
| 0       | (0)  | CHARACTER | 34  | MTD_ISETST     |             |
| 0       | (0)  | SIGNED    | 2   | MTDSETS_CID    |             |
| 2       | (2)  | SIGNED    | 2   | MTDSETS_OPNO   |             |
| 4       | (4)  | CHARACTER | 2   | MTDSETS_TYP    |             |
| 6       | (6)  | CHARACTER | 2   | MTDSETS_LOG    |             |
| 8       | (8)  | CHARACTER | 4   | MTDSETS_VALRC  |             |
| 12      | (C)  | CHARACTER | 4   | MTDSETS_VALRC2 |             |
| 16      | (10) | CHARACTER | 1   | MTDSETS_VALST  |             |
| 17      | (11) | CHARACTER | 8   | MTDSETS_STEPN  |             |
| 25      | (19) | CHARACTER | 8   | MTDSETS_PROCS  |             |
| 33      | (21) | CHARACTER | 1   | MTDSETS_NEWST  |             |
| 34      | (22) | CHARACTER |     | MTD_ISETST_END |             |
| 34      | (22) | CHARACTER | 16  | MTDSETS_AID    |             |
| 50      | (32) | CHARACTER | 10  | MTDSETS_IA     |             |
| 50      | (32) | CHARACTER | 6   | MTDSETS_IAD    |             |
| 56      | (38) | CHARACTER | 4   | MTDSETS_IAT    |             |
| 60      | (3C) | CHARACTER |     | MTD_ESETST_END |             |

| Offsets |     |           |     |               |             |
|---------|-----|-----------|-----|---------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)    | Description |
| 0       | (0) | STRUCTURE | 70  | MTD_ADD_USRF  |             |
| 0       | (0) | CHARACTER | 16  | MTDAUSRF_NAME |             |



| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 16      | (10) | CHARACTER | 54  | MTDAUSRF_VALUE   |             |
| 70      | (46) | CHARACTER |     | MTD_ADD_USRF_END |             |

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 0       | (0)  | STRUCTURE | 70  | MTD_DEL_USRF     |             |
| 0       | (0)  | CHARACTER | 16  | MTDDUSRF_NAME    |             |
| 16      | (10) | CHARACTER | 54  | MTDDUSRF_VALUE   |             |
| 70      | (46) | CHARACTER |     | MTD_DEL_USRF_END |             |

| Offsets |      |           |     |                  |             |
|---------|------|-----------|-----|------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description |
| 0       | (0)  | STRUCTURE | 70  | MTD_MOD_USRF     |             |
| 0       | (0)  | CHARACTER | 16  | MTDMUSRF_NAME    |             |
| 16      | (10) | CHARACTER | 54  | MTDMUSRF_VALUE   |             |
| 70      | (46) | CHARACTER |     | MTD_MOD_USRF_END |             |

| Offsets |      |           |     |                       |             |
|---------|------|-----------|-----|-----------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)            | Description |
| 0       | (0)  | STRUCTURE | 20  | MTD_AMOZ_RENGINFO     |             |
| 0       | (0)  | CHARACTER | 16  | MTDAMO_RENGZ_ADID     |             |
| 16      | (10) | CHARACTER | 3   | MTDAMO_RENGZ_OPNUM    |             |
| 19      | (13) | CHARACTER | 1   | MTDAMO_RENGZ_IFBIND   |             |
| 20      | (14) | CHARACTER |     | MTD_AMOZ_RENGINFO_END |             |

| Offsets |      |           |     |                   |             |
|---------|------|-----------|-----|-------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description |
| 0       | (0)  | STRUCTURE | 73  | MTD_AMOD_RENGINFO |             |
| 0       | (0)  | CHARACTER | 16  | MTDAMO_RENGD_WSN  |             |
| 16      | (10) | CHARACTER | 16  | MTDAMO_RENGD_ADID |             |

| Offsets |      |           |     |                       |             |
|---------|------|-----------|-----|-----------------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)            | Description |
| 32      | (20) | CHARACTER | 40  | MTDAMO_RENGD_JOBNAME  |             |
| 72      | (48) | CHARACTER | 1   | MTDAMO_RENGD_IFBIND   |             |
| 73      | (49) | CHARACTER |     | MTD_AMOD_RENGINFO_END |             |

| Offsets |     |           |     |                      |             |
|---------|-----|-----------|-----|----------------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)           | Description |
| 0       | (0) | STRUCTURE |     | MTD_DEL_RENGINFO     |             |
| 0       | (0) | CHARACTER |     | MTD_DEL_RENGINFO_END |             |

## Cross reference

| Name                | Hex Offset | Hex Value | Level |
|---------------------|------------|-----------|-------|
| MTD                 | 0          |           | 1     |
| MTD_ADD_AUTINFO     | 0          |           | 1     |
| MTD_ADD_AUTINFO_END | 150        |           | 2     |
| MTD_ADD_COND        | 0          |           | 1     |
| MTD_ADD_COND_END    | 20         |           | 2     |
| MTD_ADD_ESIMP_END   | 3C         |           | 2     |
| MTD_ADD_EXT_END     | 24         |           | 2     |
| MTD_ADD_EXTINFO     | 0          |           | 1     |
| MTD_ADD_EXTINFO_END | C8         |           | 2     |
| MTD_ADD_INT_END     | 5          |           | 3     |
| MTD_ADD_ISIMP_END   | 21         |           | 3     |
| MTD_ADD_OP          | 0          |           | 1     |
| MTD_ADD_OP_END      | 44         |           | 2     |
| MTD_ADD_SR          | 0          |           | 1     |
| MTD_ADD_SR_END      | 34         |           | 2     |
| MTD_ADD_USRF        | 0          |           | 1     |
| MTD_ADD_USRF_END    | 46         |           | 2     |

| Name                  | Hex Offset | Hex Value | Level |
|-----------------------|------------|-----------|-------|
| MTD_AMOD_RENGINFO     | 0          |           | 1     |
| MTD_AMOD_RENGINFO_END | 49         |           | 2     |
| MTD_AMOZ_RENGINFO     | 0          |           | 1     |
| MTD_AMOZ_RENGINFO_END | 14         |           | 2     |
| MTD_CH_CM             | 0          |           | 1     |
| MTD_CH_CM_END         | 3E         |           | 2     |
| MTD_CH_CMACT          | 0          |           | 2     |
| MTD_DEL_AUTINFO       | 0          |           | 1     |
| MTD_DEL_AUTINFO_END   | 0          |           | 2     |
| MTD_DEL_COND          | 0          |           | 1     |
| MTD_DEL_COND_END      | 2          |           | 2     |
| MTD_DEL_ESIMP_END     | 3C         |           | 2     |
| MTD_DEL_EXT_END       | 24         |           | 2     |
| MTD_DEL_EXTINFO       | 0          |           | 2     |
| MTD_DEL_EXTINFO_END   | C8         |           | 2     |
| MTD_DEL_INT_END       | 3          |           | 3     |
| MTD_DEL_ISIMP_END     | 21         |           | 3     |
| MTD_DEL_RENGINFO      | 0          |           | 1     |
| MTD_DEL_RENGINFO_END  | 0          |           | 2     |
| MTD_DEL_SR            | 0          |           | 2     |
| MTD_DEL_SR_END        | 2C         |           | 3     |
| MTD_DEL_USRF          | 0          |           | 1     |
| MTD_DEL_USRF_END      | 46         |           | 2     |
| MTD_disc_all          | 3D         |           | 2     |
| MTD_ERC               | 0          |           | 1     |
| MTD_ERC_END           | 4          |           | 2     |
| MTD_ESETST            | 0          |           | 1     |
| MTD_ESETST_END        | 3C         |           | 2     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| MTD_ESIMP        | 0          |           | 1     |
| MTD_EXT_CSUC     | 0          |           | 1     |
| MTD_EXT_CSUC_END | 5A         |           | 2     |
| MTD_EXT_DEP      | 0          |           | 1     |
| MTD_HOP          | 0          |           | 1     |
| MTD_HOP_END      | E          |           | 2     |
| MTD_HOP_JBNAME   | 2          |           | 2     |
| MTD_HOP_REQ      | 0          |           | 2     |
| MTD_HOP_WSNAME   | A          |           | 2     |
| MTD_INT_DEP      | 0          |           | 2     |
| MTD_ISETST       | 0          |           | 2     |
| MTD_ISETST_END   | 22         |           | 3     |
| MTD_ISIMP        | 0          |           | 2     |
| MTD_IVL          | 20         |           | 2     |
| MTD_IVL_L        | 20         |           | 3     |
| MTD_IVL_R        | 22         |           | 3     |
| MTD_MOD_COND     | 0          |           | 1     |
| MTD_MOD_COND_END | 1E         |           | 2     |
| MTD_MOD_USRF     | 0          |           | 1     |
| MTD_MOD_USRF_END | 46         |           | 2     |
| MTD_OPTS         | 0          |           | 1     |
| MTD_OPTS_END     | 23         |           | 2     |
| MTD_SLR          | 0          |           | 1     |
| MTD_SLR_CEPSTEP  | 38         |           | 2     |
| MTD_SLR_CESTEP   | 30         |           | 2     |
| MTD_SLR_CPSTEP   | 28         |           | 2     |
| MTD_SLR_CSTEP    | 20         |           | 2     |
| MTD_SLR_END      | 40         |           | 2     |

| Name                 | Hex Offset | Hex Value | Level |
|----------------------|------------|-----------|-------|
| mtd_slr_exdest       | 0          |           | 3     |
| mtd_slr_oudest       | 8          |           | 3     |
| MTD_SLR_SEPSTEP      | 18         |           | 2     |
| MTD_SLR_SESTEP       | 10         |           | 2     |
| MTD_SLR_SPSTEP       | 8          |           | 2     |
| MTD_SLR_SSTEP        | 0          |           | 2     |
| MTD_ST_OLD           | 0          |           | 1     |
| MTD_ST_OL2           | 0          |           | 1     |
| MTD_STATUS           | 0          |           | 1     |
| MTD_STATUS_END       | A          |           | 2     |
| MTD_STATUS_END       | 1          |           | 2     |
| MTD_STATUS_END       | 9          |           | 2     |
| MTD_TIMES            | 0          |           | 1     |
| MTD_TIMES_END        | 14         |           | 2     |
| MTD_userdata         | 2C         |           | 2     |
| MTDABS               | 1F         | 10        | 3     |
| MTDACOND_CID         | 0          |           | 2     |
| MTDACOND_COUNT       | 6          |           | 2     |
| MTDACOND_DESC        | 8          |           | 2     |
| MTDACOND_SIMPNO      | 4          |           | 2     |
| MTDACOND_TYPE        | 2          |           | 2     |
| MTDAEC               | 9          | 80        | 3     |
| MTDAJR               | 9          | 20        | 3     |
| MTDAMO_RENGD_ADID    | 10         |           | 2     |
| MTDAMO_RENGD_IFBIND  | 48         |           | 2     |
| MTDAMO_RENGD_JOBNAME | 20         |           | 2     |
| MTDAMO_RENGD_WSN     | 0          |           | 2     |
| MTDAMO_RENGZ_ADID    | 0          |           | 2     |

| Name                | Hex Offset | Hex Value | Level |
|---------------------|------------|-----------|-------|
| MTDAMO_RENGZ_IFBIND | 13         |           | 2     |
| MTDAMO_RENGZ_OPNUM  | 10         |           | 2     |
| MTDAUSRF_NAME       | 0          |           | 2     |
| MTDAUSRF_VALUE      | 10         |           | 2     |
| MTDAUTOOPER         | 100        |           | 2     |
| MTDBODY             | 4          |           | 2     |
| MTDCAN              | 9          | 08        | 3     |
| MTDCHGMON           | 19         | 40        | 4     |
| MTDCCLASS           | 8          |           | 2     |
| mtddclasst          | A          | 02        | 3     |
| MTDCLPRE            | 1F         | 80        | 3     |
| MTDCOMMTEXT         | 0          |           | 2     |
| MTDCOMMTEX1         | 0          |           | 3     |
| MTDCOMMTEX2         | 40         |           | 3     |
| MTDCOMMTEX3         | 80         |           | 3     |
| MTDCOMMTEX4         | C0         |           | 3     |
| MTDCOMPINFO         | 110        |           | 2     |
| mtdcondrjob         | 9          | 01        | 3     |
| MTDCSUC_AID         | 22         |           | 2     |
| MTDCSUC_CID         | 0          |           | 2     |
| MTDCSUC_COND        | 3C         |           | 2     |
| MTDCSUC_CONDCNT     | 56         |           | 3     |
| MTDCSUC_CONDDDESC   | 3C         |           | 3     |
| MTDCSUC_CONDSNO     | 58         |           | 3     |
| MTDCSUC_CONDTYPE    | 54         |           | 3     |
| MTDCSUC_IA          | 32         |           | 2     |
| MTDCSUC_IAD         | 32         |           | 3     |
| MTDCSUC_IAT         | 38         |           | 3     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| MTDCSUC_LOG    | 6          |           | 2     |
| MTDCSUC_OPNO   | 2          |           | 2     |
| MTDCSUC_PROCS  | 19         |           | 2     |
| MTDCSUC_STEPN  | 11         |           | 2     |
| MTDCSUC_TYP    | 4          |           | 2     |
| MTDCSUC_VALRC  | 8          |           | 2     |
| MTDCSUC_VALRC2 | C          |           | 2     |
| MTDCSUC_VALST  | 10         |           | 2     |
| MTDDAID        | 5          |           | 2     |
| MTDDCOND_CID   | 0          |           | 2     |
| MTDDEPN        | 0          |           | 3     |
| MTDDEPT        | 2          |           | 3     |
| MTDDIA         | 15         |           | 2     |
| MTDDIAD        | 15         |           | 3     |
| MTDDIAT        | 1B         |           | 3     |
| MTDDIRER       | A          | 10        | 3     |
| MTDDIRES       | A          | 40        | 3     |
| MTDDL          | A          |           | 2     |
| MTDDLDD        | A          |           | 3     |
| MTDDLTL        | 10         |           | 3     |
| MTDDSN         | 11         |           | 2     |
| MTDDUSRF_NAME  | 0          |           | 2     |
| MTDDUSRF_VALUE | 10         |           | 2     |
| mtddwto        | 9          | 02        | 3     |
| MTDEDUR        | 3C         |           | 2     |
| MTDEDURVAR     | 40         |           | 2     |
| MTDERRC        | 0          |           | 2     |
| mtdexpjcl      | A          | 08        | 3     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| MTDEXTNAME     | 0          |           | 3     |
| MTDFLAGS       | 1F         |           | 2     |
| MTDFORM        | F          |           | 2     |
| mtdfmt         | A          | 01        | 3     |
| MTDHEAD        | 0          |           | 2     |
| MTDHRC         | 9          | 04        | 3     |
| MTDHRCNE       | B          |           | 2     |
| MTDHRCNX       | D          |           | 3     |
| MTDIA          | 0          |           | 2     |
| MTDIAD         | 0          |           | 3     |
| MTDIAT         | 6          |           | 3     |
| MTDISMANDC     | 1F         | 04        | 3     |
| MTDISMANDP     | 1F         | 02        | 3     |
| MTDJOBCRT      | 17         |           | 4     |
| MTDJOBN        | 0          |           | 2     |
| MTDJOBPOL      | 18         |           | 4     |
| MTDMANDP       | 1F         | 40        | 3     |
| MTDMCOND_CID   | 0          |           | 2     |
| MTDMCOND_COUNT | 1C         |           | 2     |
| MTDMCOND_DESC  | 2          |           | 2     |
| MTDMCOND_TYPE  | 1A         |           | 2     |
| MTDMON         | 19         | 80        | 4     |
| MTDMUSRF_NAME  | 0          |           | 2     |
| MTDMUSRF_VALUE | 10         |           | 2     |
| MTDOPER        | 2          |           | 3     |
| MTDOPTJN       | 0          |           | 2     |
| MTDOPTS        | 9          |           | 2     |
| MTDOPTS2       | A          |           | 2     |



| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| MTDOPTS3      | 17         |           | 2     |
| MTDOPTS4      | 1A         |           | 2     |
| MTDOPTS5      | 19         |           | 3     |
| MTDOSTAT      | 9          |           | 2     |
| MTDPROCSTP    | 9          |           | 2     |
| MTDPSUSE      | 26         |           | 2     |
| mtdrcln       | 1A         |           | 3     |
| MTDREL        | 1F         | 08        | 3     |
| MTDRERUT      | A          | 20        | 3     |
| MTDRESC       | 2E         |           | 2     |
| MTDRESE       | 2D         |           | 2     |
| MTDRESN       | 0          |           | 3     |
| MTDRESQ       | 30         |           | 2     |
| MTDREST       | 2C         |           | 2     |
| MTDRESTA      | A          | 80        | 3     |
| MTDR1USE      | 28         |           | 2     |
| MTDR2USE      | 2A         |           | 2     |
| MTDSAME       | 1F         | 20        | 3     |
| MTDSCRIPT     | 19         | 20        | 4     |
| MTDSECELEM    | 108        |           | 2     |
| mtdSEname     | 36         |           | 3     |
| MTDSETS_AID   | 22         |           | 2     |
| MTDSETS_CID   | 0          |           | 3     |
| MTDSETS_IA    | 32         |           | 2     |
| MTDSETS_IAD   | 32         |           | 3     |
| MTDSETS_IAT   | 38         |           | 3     |
| MTDSETS_LOG   | 6          |           | 3     |
| MTDSETS_NEWST | 21         |           | 3     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| MTDSETS_OPNO   | 2          |           | 3     |
| MTDSETS_PROCS  | 19         |           | 3     |
| MTDSETS_STEPN  | 11         |           | 3     |
| MTDSETS_TYP    | 4          |           | 3     |
| MTDSETS_VALRC  | 8          |           | 3     |
| MTDSETS_VALRC2 | C          |           | 3     |
| MTDSETS_VALST  | 10         |           | 3     |
| MTDSIMP_AID    | 21         |           | 2     |
| MTDSIMP_CID    | 0          |           | 3     |
| MTDSIMP_IA     | 31         |           | 2     |
| MTDSIMP_IAD    | 31         |           | 3     |
| MTDSIMP_IAT    | 37         |           | 3     |
| MTDSIMP_LOG    | 6          |           | 3     |
| MTDSIMP_OPNO   | 2          |           | 3     |
| MTDSIMP_PROCS  | 19         |           | 3     |
| MTDSIMP_STEPN  | 11         |           | 3     |
| MTDSIMP_TYP    | 4          |           | 3     |
| MTDSIMP_VALRC  | 8          |           | 3     |
| MTDSIMP_VALRC2 | C          |           | 3     |
| MTDSIMP_VALST  | 10         |           | 3     |
| MTDSIMPCLOPRE  | 3B         | 80        | 3     |
| MTDSIMPFLAGS   | 3B         |           | 2     |
| MTDSJOBN       | 1          |           | 2     |
| MTDSJOBN       | 1          |           | 2     |
| MTDSTAT        | 0          |           | 2     |
| MTDSTAT        | 0          |           | 2     |
| MTDSTAT        | 0          |           | 2     |
| MTDSTEPNM      | 1          |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| MTDSUB      | 9          | 40        | 3     |
| MTDTEXT     | C          |           | 2     |
| MTDTJT      | 9          | 10        | 3     |
| MTDTRST     | 3          |           | 3     |
| MTDTYPE     | 0          |           | 3     |
| mtdusrsys   | A          | 04        | 3     |
| MTDWLM      | 17         |           | 3     |
| mtdWLMclass | 1B         |           | 3     |
| MTDWSNM     | 8          |           | 2     |

## MT0 - MCP Tracking information entry

Name: DCLMT0

| Offsets |     |           |     |              |                                             |
|---------|-----|-----------|-----|--------------|---------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                                 |
| 0       | (0) | STRUCTURE | 41  | mt0          | mcp track entry                             |
| 0       | (0) | CHARACTER | 4   | mt0eye       | eye catcher                                 |
| 4       | (4) | CHARACTER | 2   | mt0ver       | version                                     |
| 6       | (6) | BITSTRING | 1   | mt0flgs      | flag bits                                   |
|         |     | 1... .... |     | mt0chk       | 1=check request                             |
|         |     | .1.. .... |     | mt0error     | 1=error is detected                         |
|         |     | ..1. .... |     | mt0drlst     | 1=use last occ in cp for dep resolution     |
|         |     | ...1 .... |     | mt0drlat     | 1=use latest occ prec added occ for dep res |
|         |     | .... 1... |     | mt0continued | another mt0 follows                         |
|         |     | .... .1.. |     | mt0aerr      | accept error                                |
|         |     | .... ..1. |     | mt0pifad     | pif supplied ad                             |
|         |     | .... ...1 |     | mt0fopd      | faked op dates                              |
| 7       | (7) | CHARACTER | 1   | mt0type      | type of change                              |
| 8       | (8) | CHARACTER | 1   | mt0caller    | function calling mcp a-ar,e-ett,p-pif       |

| Offsets |      |           |     |             |                                                                                                                                                    |
|---------|------|-----------|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                                                                                                        |
| 9       | (9)  | BITSTRING | 1   | mt0flags    | additional flags                                                                                                                                   |
|         |      | 1... .... |     | mt0turnov   | 1=turnover in progress                                                                                                                             |
|         |      | .1.. .... |     | mt0restart  | 1=cp restart in progress                                                                                                                           |
|         |      | ..1. .... |     | mt0autodep  | 1=add ext dependencies                                                                                                                             |
|         |      | ...1 .... |     | mt0resolve  | 1=deps must be resolved                                                                                                                            |
|         |      | .... 1... |     | mt0cmrer    | 1=potential cm before oper is rerun                                                                                                                |
|         |      | .... .1.. |     | mt0ignore   | Ignore this MT0                                                                                                                                    |
|         |      | .... ..1. |     | mt0gr_add   | This MT0 is part of a group add trnx                                                                                                               |
|         |      | .... ...1 |     | mt0notlt    | 1=Dont use LT file                                                                                                                                 |
| 10      | (A)  | CHARACTER | 10  | mt0cpe      | current plan end                                                                                                                                   |
| 10      | (A)  | CHARACTER | 6   | mt0cped     | date and time                                                                                                                                      |
| 20      | (14) | CHARACTER | 8   | mt0msgid    | msg, if accepted err                                                                                                                               |
| 20      | (14) | CHARACTER | 8   | mt0stmp     | time stamp of update                                                                                                                               |
| 20      | (14) | SIGNED    | 4   | mt0mivloff  | modify ivl offsett                                                                                                                                 |
| 20      | (14) | CHARACTER | 4   | mt0date     | date of update                                                                                                                                     |
| 24      | (18) | CHARACTER | 4   | mt0time     | time of update                                                                                                                                     |
| 28      | (1C) | SIGNED    | 4   | mt0lgth     | length of entire record -----                                                                                                                      |
| 32      | (20) | CHARACTER | 8   | mt0OCCtok   | MT0 OCC token Used to decide if when adding an OCC the old token must be used '00'x - first add Filled - add due to JT reapply use old token ----- |
| 40      | (28) | BITSTRING | 1   | mt0flag3    | flags                                                                                                                                              |
|         |      | 1... .... |     | mt0PSU_Appl | 1 = from Apply Logic                                                                                                                               |
|         |      | .1.. .... |     | mt0chg      |                                                                                                                                                    |
|         |      | ..1. .... |     | mt0chstrer  | change status for rerun                                                                                                                            |
|         |      | ...1 .... |     | mt0CAutoSuc | cond succ auto solve                                                                                                                               |
|         |      | .... 1... |     | mt0inGroup  | on = in a group                                                                                                                                    |
|         |      | .... .1.. |     | mt0SJR      | on = SJR                                                                                                                                           |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
|         |      | .... ..1. |     | mt0xRerun  | on = change occ for rerun |
|         |      | .... ...1 |     | *          | free                      |
| 41      | (29) | CHARACTER |     | mt0body    | body of change            |

| Offsets |     |           |     |            |                           |
|---------|-----|-----------|-----|------------|---------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description               |
| 10      | (A) | STRUCTURE | 8   | mt0qsst    | start building MT0, or 0s |
| 10      | (A) | CHARACTER | 4   | mt0qsstd   | date                      |
| 14      | (E) | CHARACTER | 4   | mt0qsstt   | time                      |

MT0 Body variable part

For ws changes

| Offsets |     |           |     |            |                         |
|---------|-----|-----------|-----|------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description             |
| 0       | (0) | STRUCTURE | 8   | mt0ws      |                         |
| 0       | (0) | CHARACTER | 4   | mt0wsn     | work station name       |
| 4       | (4) | CHARACTER | 1   | mt0rep     | new reporting attribute |
| 5       | (5) | CHARACTER | 1   | mt0wcf     | control flags           |
|         |     | 1... .... |     | mt0wcp     | control on servers      |
|         |     | .1.. .... |     | mt0wc1     | control on resource 1   |
|         |     | ..1. .... |     | mt0wc2     | control on resource 2   |
|         |     | ...1 .... |     | mt0tw      | Fault-Tolerance ws      |
|         |     | .... 1111 |     | *          | spare                   |
| 6       | (6) | SIGNED    | 2   | mt0wi      | number of intervals     |

| Offsets |     |           |     |            |                                       |
|---------|-----|-----------|-----|------------|---------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                           |
| 8       | (8) | CHARACTER |     | mt0mws     | ws open intervals see dclivl(ivldata) |

For ws status variation

| Offsets |     |           |     |                 |                       |
|---------|-----|-----------|-----|-----------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)      | Description           |
| 0       | (0) | STRUCTURE | 12  | mt0vary         |                       |
| 0       | (0) | CHARACTER | 4   | mt0v_wsn        | work station name     |
| 4       | (4) | CHARACTER | 1   | mt0v_stat       | new ws status         |
| 5       | (5) | BITSTRING | 1   | mt0v_opt        | failure options       |
|         |     | 1... .... |     | mt0v_opt_fleav  | leave started         |
|         |     | .1.. .... |     | mt0v_opt_ferr   | error set             |
|         |     | ..1. .... |     | mt0v_opt_frest  | restart               |
|         |     | ...1 .... |     | mt0v_opt_rleav  | leave scheduled       |
|         |     | .... 1... |     | mt0v_opt_rreru  | reroute               |
|         |     | .... .1.. |     | mt0v_opt_rimmd  | immediately available |
|         |     | .... ..11 |     | *               | reserved              |
| 6       | (6) | CHARACTER | 4   | mt0v_aws        | alternate ws name     |
| 10      | (A) | CHARACTER | 1   | mt0v_link       | link status           |
| 11      | (B) | BITSTRING | 1   | mt0v_var        | status and link vary  |
|         |     | 1... .... |     | mt0v_var_link   | link vary             |
|         |     | .1.. .... |     | mt0v_var_status | status vary           |
|         |     | ..11 1111 |     | *               | reserved              |

For WS22 changes

| Offsets |      |           |     |            |                                       |
|---------|------|-----------|-----|------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                           |
| 0       | (0)  | STRUCTURE | 16  | mt0ws22    |                                       |
| 0       | (0)  | CHARACTER | 4   | mt0wsn22   | work station name                     |
| 4       | (4)  | CHARACTER | 8   | mt0dest22  | work station destination              |
| 12      | (C)  | CHARACTER | 1   | mt0rep22   | new reporting attribute = not used    |
| 13      | (D)  | CHARACTER | 1   | mt0wcf22   | control flags                         |
|         |      | 1... ..   |     | mt0wcp22   | control on servers                    |
|         |      | .1... ..  |     | mt0wc122   | control on resource 1                 |
|         |      | ..1. .... |     | mt0wc222   | control on resource 2                 |
|         |      | ...1 .... |     | mt0tws22   | Fault-Tolerance ws                    |
|         |      | .... 1111 |     | *          | spare                                 |
| 14      | (E)  | SIGNED    | 2   | mt0wi22    | number of intervals                   |
| 16      | (10) | CHARACTER |     | mt0mws22   | ws open intervals see dclivl(ivldata) |

For WS22 status variation

| Offsets |     |           |     |                  |                          |
|---------|-----|-----------|-----|------------------|--------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)       | Description              |
| 0       | (0) | STRUCTURE | 20  | mt0vary22        |                          |
| 0       | (0) | CHARACTER | 4   | mt0v_wsn22       | work station name        |
| 4       | (4) | CHARACTER | 8   | mt0v_dest22      | work station destination |
| 12      | (C) | CHARACTER | 1   | mt0v_stat22      | new ws status            |
| 13      | (D) | BITSTRING | 1   | mt0v_opt22       | failure options          |
|         |     | 1... ..   |     | mt0v_opt_fleav22 | leave started            |
|         |     | .1... ..  |     | mt0v_opt_ferr22  | error set                |

| Offsets |      |            |     |                  |                       |
|---------|------|------------|-----|------------------|-----------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)       | Description           |
|         |      | ...1. .... |     | mt0v_opt_frest22 | restart               |
|         |      | ...1 ....  |     | mt0v_opt_rleav22 | leave scheduled       |
|         |      | .... 1...  |     | mt0v_opt_rreru22 | reroute               |
|         |      | .... .1..  |     | mt0v_opt_rimmd22 | immediately available |
|         |      | .... ..11  |     | *                | reserved              |
| 14      | (E)  | CHARACTER  | 4   | mt0v_aws22       | alternate ws name     |
| 18      | (12) | CHARACTER  | 1   | mt0v_link22      | link status           |
| 19      | (13) | BITSTRING  | 1   | mt0v_var22       | status and link vary  |
|         |      | 1... ....  |     | mt0v_var_link22  | link vary             |
|         |      | .1.. ....  |     | mt0v_var_stat22  | status vary           |
|         |      | ..11 1111  |     | *                | reserved              |

For Occurrence changes add, delete, modify

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 96  | mt0occ     | add change oper entry     |
| 0       | (0)  | CHARACTER | 26  | mt0key     | occurrence key            |
| 0       | (0)  | CHARACTER | 16  | mt0aid     | application name          |
| 16      | (10) | CHARACTER | 10  | mt0im      | modified input arrival,   |
| 16      | (10) | CHARACTER | 6   | mt0imd     | the new value if to be    |
| 22      | (16) | CHARACTER | 4   | mt0imt     | changed in change occ req |
| 26      | (1A) | CHARACTER | 10  | mt0ia      | occurrence identifier ia  |
| 26      | (1A) | CHARACTER | 6   | mt0iad     | same as mt0im if not a    |
| 32      | (20) | CHARACTER | 4   | mt0iat     | change occurrence request |
| 36      | (24) | CHARACTER | 10  | mt0dl      | occurrence deadline       |



| Offsets |      |           |     |               |                                                |
|---------|------|-----------|-----|---------------|------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                    |
| 36      | (24) | CHARACTER | 6   | mt0dld        | deadline date                                  |
| 42      | (2A) | CHARACTER | 4   | mt0dlit       | deadline time                                  |
| 46      | (2E) | CHARACTER | 1   | mt0pri        | priority                                       |
| 47      | (2F) | CHARACTER | 4   | mt0err        | error code                                     |
| 51      | (33) | BITSTRING | 1   | mt0ocflg      | general flag                                   |
|         |      | 1... .... |     | mt0imset      | pif provided IANew'                            |
|         |      | .1.. .... |     | mt0dlset      | pif provided DEADLINE                          |
|         |      | ..1. .... |     | mt0Reas       | reason block exists                            |
|         |      | .... 1... |     | mt0Toler      | tolerate                                       |
|         |      | .... .1.. |     | mt0chgallmon  | chg monitoring flag for all operation in occur |
|         |      | .... ..1. |     | mt0mon        | oper monit flag value if mt0chgallmon=ON       |
|         |      | .... ...1 |     | mt0GroupM     | ON if Occ of Group is modified                 |
| 52      | (34) | CHARACTER | 16  | mt0jvt        | jcl var table name                             |
| 68      | (44) | CHARACTER | 16  | mt0GroupDef   | Occurrence Group Def                           |
| 84      | (54) | BITSTRING | 1   | mt0ocflg1     |                                                |
|         |      | 1... .... |     | mt0mhld       | set all the operation = mt0mhldV value         |
|         |      | .1.. .... |     | mt0mhldV      | mhld value                                     |
|         |      | ..1. .... |     | mt0PIFDLcheck | PIFDLcheck value (YES or NO)                   |
|         |      | ...1 .... |     | mt0PIFX       | ON if PIF datamode X                           |
|         |      | .... 1111 |     | *             | free                                           |
| 85      | (55) | CHARACTER | 11  | mt0cflg2      | free                                           |
| 96      | (60) | CHARACTER |     | mt0ocd        | operation details see dclmtd                   |

For Occurrence RERUN

| Offsets |       |           |     |             |                                 |
|---------|-------|-----------|-----|-------------|---------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description                     |
| 0       | (0)   | STRUCTURE | 336 | mt0rstrt    | section on restart              |
| 0       | (0)   | CHARACTER | 8   | mt0rsJob    | job name                        |
| 8       | (8)   | CHARACTER | 4   | mt0rsErr    | error code                      |
| 12      | (C)   | CHARACTER | 16  | mt0rsUsr    | user data field                 |
| 28      | (1C)  | CHARACTER | 300 | mt0rsReason | reason for rerun                |
| 328     | (148) | CHARACTER | 8   | mt0rsPanel  | panel where reason text entered |
| 336     | (150) | CHARACTER |     | mt0rod      | operation details               |

For Occurrence ADD

| Offsets |      |           |     |                |                              |
|---------|------|-----------|-----|----------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                  |
| 0       | (0)  | STRUCTURE | 206 | mt0aoc         | added occurrence info        |
| 0       | (0)  | CHARACTER | 30  | mt0txt         | application text             |
| 30      | (1E) | CHARACTER | 8   | mt0grp         | authority group              |
| 38      | (26) | CHARACTER | 16  | mt0oid         | application owner            |
| 54      | (36) | CHARACTER | 30  | mt0otx         | owner text                   |
| 84      | (54) | CHARACTER | 16  | mt0cal         | calendar name                |
| 100     | (64) | CHARACTER | 44  | mt0ettcrit     | ETT criteria                 |
| 144     | (90) | CHARACTER | 1   | mt0etttyp      | ETT type J or R              |
| 145     | (91) | CHARACTER | 8   | mt0ettjob      | ETT job name                 |
| 153     | (99) | CHARACTER | 8   | mt0ettjid      | ETT job id                   |
| 161     | (A1) | UNSIGNED  | 1   | mt0ettgrootl   | ETT gdg root len             |
| 162     | (A2) | CHARACTER | 44  | mt0ettevnam    | ETT full event name          |
| 206     | (CE) | CHARACTER | 32  | mt0serviceuser | SSC service user             |
| 248     | (F8) | CHARACTER |     | mt0aod         | operation details see dclmtd |

## Occurrence Group Process MT0

| Offsets |       |           |     |                  |                                                     |
|---------|-------|-----------|-----|------------------|-----------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)       | Description                                         |
| 0       | (0)   | STRUCTURE | 356 | Mt0Group         | Group Mt0                                           |
| 0       | (0)   | CHARACTER | 4   | Mt0GroupReq      | Request type, see constants                         |
| 4       | (4)   | CHARACTER | 16  | Mt0GroupId       | Name Reference of this Group                        |
| 20      | (14)  | CHARACTER | 16  | Mt0GroupCal      | Group Calendar                                      |
| 36      | (24)  | CHARACTER | 4   | Mt0GroupErr      | Error returned by Group MCP                         |
| 40      | (28)  | CHARACTER | 4   | Mt0GroupCause    | Cause of error set by MC0                           |
| 44      | (2C)  | CHARACTER | 302 | Mt0GroupMt0      | Global change data in group manner for all OCCs     |
| 346     | (15A) | CHARACTER | 2   | *                | free                                                |
| 348     | (15C) | SIGNED    | 4   | Mt0GroupNum      | Number of Occs in list                              |
| 352     | (160) | BITSTRING | 4   | Mt0GroupFlag     | Processing flags - group Mt0                        |
|         |       | 1... .... |     | Mt0GroupF_Init   | on LogAhead record for group                        |
|         |       | .1.. .... |     | Mt0GroupF_Wait   | on Wait for completion req                          |
|         |       | ..1. .... |     | Mt0GroupF_Comp   | on This is a completion req                         |
|         |       | ...1 .... |     | Mt0GroupF_Err    | on Updates failed                                   |
|         |       | .... 1... |     | Mt0GroupF_Mt0    | on Induced Mt0s follows                             |
|         |       | .... .1.. |     | Mt0GroupF_ADDc   | on CANCELLED compl ADD                              |
|         |       | .... ..1. |     | Mt0GroupF_ADDd   | on DELETE in compl ADD                              |
|         |       | .... ...1 |     | Mt0GroupF_OPCT   | on OPC terminated conversat                         |
| 353     | (161) | 1... .... |     | MT0GroupF_RDH    | on Some reldelHold failed                           |
|         |       | .1.. .... |     | Mt0GroupF_Dep    | on Resol deps grp inter - global data changes flags |
|         |       | ..1. .... |     | Mt0GroupFC_Group | on change Group Def id globa                        |
|         |       | ...1 .... |     | Mt0GroupFC_IA    | on change IA glabally                               |

| Offsets |       |           |     |                |                             |
|---------|-------|-----------|-----|----------------|-----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)     | Description                 |
|         |       | .... 1... |     | Mt0GroupFC_DL  | on change DeadLine global   |
|         |       | .... .1.. |     | Mt0GroupFC_Pri | on Change priority global   |
|         |       | .... ..1. |     | Mt0GroupFC_Err | on Change error code globbb |
|         |       | .... ...1 |     | Mt0GroupFC_JVT | on Change JCL Var tab glob  |
| 354     | (162) | 1... .... |     | *              | reserved                    |
|         |       | .1.. .... |     | *              | reserved                    |
|         |       | ..1. .... |     | *              | reserved                    |
|         |       | ...1 .... |     | *              | reserved                    |
|         |       | .... 1... |     | *              | reserved                    |
| 356     | (164) | CHARACTER |     | Mt0GroupEnd    | End of header               |

| Offsets |      |           |     |                  |                                                     |
|---------|------|-----------|-----|------------------|-----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description                                         |
| 0       | (0)  | STRUCTURE | 28  | Mt0GroupList (*) | List of Occ's subject to Mt0 based on end of header |
| 0       | (0)  | CHARACTER | 16  | Mt0GroupOcc      | Occurrence AD name                                  |
| 16      | (10) | CHARACTER | 10  | Mt0GroupIa       | IA of group OCC                                     |
| 16      | (10) | CHARACTER | 6   | Mt0GroupIaDate   | Input Arrival date                                  |
| 22      | (16) | CHARACTER | 4   | Mt0GroupIaTime   | &period..time                                       |
| 26      | (1A) | CHARACTER | 1   | *                | Reserved                                            |
| 27      | (1B) | BITSTRING | 1   | Mt0GroupOccFlg   | Processing indicators                               |
|         |      | 1... .... |     | Mt0GroupOcc_Bad  | On This OCC causes error                            |
|         |      | .1.. .... |     | Mt0GroupOcc_Mt0  | On Specific dialog MT0 follo                        |
|         |      | ..1. .... |     | Mt0GroupOcc_Mov  | On OCC modified vs ADD Mt0                          |
|         |      | ...1 .... |     | Mt0GroupOcc_Del  | On OCC is del d vs ADD Mt0                          |
|         |      | .... 1... |     | Mt0GroupOcc_Dep  | On: OCC dep. ignored                                |
|         |      | .... .1.. |     | Mt0GroupOcc_Unr  | On: OCC dep unresolved                              |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| mt0          | 0          |           | 1     |
| mt0aerr      | 6          | 04        | 3     |
| mt0aid       | 0          |           | 3     |
| mt0aoc       | 0          |           | 1     |
| mt0aod       | CE         |           | 2     |
| mt0autodep   | 9          | 20        | 3     |
| mt0body      | 29         |           | 2     |
| mt0cal       | 54         |           | 2     |
| mt0caller    | 8          |           | 2     |
| mt0CAutoSuc  | 28         | 10        | 3     |
| mt0cflg2     | 55         |           | 2     |
| mt0chg       | 28         | 40        | 3     |
| mt0chgallmon | 33         | 04        | 3     |
| mt0chk       | 6          | 80        | 3     |
| mt0chstrer   | 28         | 20        | 3     |
| mt0cmrer     | 9          | 08        | 3     |
| mt0continued | 6          | 08        | 3     |
| mt0cpe       | A          |           | 2     |
| mt0cped      | A          |           | 3     |
| mt0cpet      | 10         |           | 3     |
| mt0date      | 14         |           | 5     |
| mt0dest22    | 4          |           | 2     |
| mt0dl        | 24         |           | 2     |
| mt0dld       | 24         |           | 3     |
| mt0dlset     | 33         | 40        | 3     |
| mt0dlt       | 2A         |           | 3     |
| mt0drlat     | 6          | 10        | 3     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| mt0drlst       | 6          | 20        | 3     |
| mt0err         | 2F         |           | 2     |
| mt0error       | 6          | 40        | 3     |
| mt0ettcrit     | 64         |           | 2     |
| mt0ettevnam    | A2         |           | 2     |
| mt0ettgrootl   | A1         |           | 2     |
| mt0ettjid      | 99         |           | 2     |
| mt0ettjob      | 91         |           | 2     |
| mt0etttyp      | 90         |           | 2     |
| mt0eye         | 0          |           | 2     |
| mt0flags       | 9          |           | 2     |
| mt0flag3       | 28         |           | 2     |
| mt0flgs        | 6          |           | 2     |
| mt0fopd        | 6          | 01        | 3     |
| mt0gr_add      | 9          | 02        | 3     |
| Mt0Group       | 0          |           | 1     |
| Mt0GroupCal    | 14         |           | 2     |
| Mt0GroupCause  | 28         |           | 2     |
| mt0GroupDef    | 44         |           | 2     |
| Mt0GroupEnd    | 164        |           | 2     |
| Mt0GroupErr    | 24         |           | 2     |
| Mt0GroupF_ADDc | 160        | 04        | 3     |
| Mt0GroupF_ADDd | 160        | 02        | 3     |
| Mt0GroupF_Comp | 160        | 20        | 3     |
| Mt0GroupF_Dep  | 161        | 40        | 3     |
| Mt0GroupF_Err  | 160        | 10        | 3     |
| Mt0GroupF_Init | 160        | 80        | 3     |
| Mt0GroupF_Mt0  | 160        | 08        | 3     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| Mt0GroupF_OPCT   | 160        | 01        | 3     |
| MT0GroupF_RDH    | 161        | 80        | 3     |
| Mt0GroupF_Wait   | 160        | 40        | 3     |
| Mt0GroupFC_DL    | 161        | 08        | 3     |
| Mt0GroupFC_Err   | 161        | 02        | 3     |
| Mt0GroupFC_Group | 161        | 20        | 3     |
| Mt0GroupFC_IA    | 161        | 10        | 3     |
| Mt0GroupFC_JVT   | 161        | 01        | 3     |
| Mt0GroupFC_Pri   | 161        | 04        | 3     |
| Mt0GroupFlag     | 160        |           | 2     |
| Mt0GroupIa       | 10         |           | 2     |
| Mt0GroupIaDate   | 10         |           | 3     |
| Mt0GroupIaTime   | 16         |           | 3     |
| Mt0GroupId       | 4          |           | 2     |
| Mt0GroupList     | 0          |           | 1     |
| mt0GroupM        | 33         | 01        | 3     |
| Mt0GroupMt0      | 2C         |           | 2     |
| Mt0GroupNum      | 15C        |           | 2     |
| Mt0GroupOcc      | 0          |           | 2     |
| Mt0GroupOcc_Bad  | 1B         | 80        | 3     |
| Mt0GroupOcc_Del  | 1B         | 10        | 3     |
| Mt0GroupOcc_Dep  | 1B         | 08        | 3     |
| Mt0GroupOcc_Mov  | 1B         | 20        | 3     |
| Mt0GroupOcc_Mt0  | 1B         | 40        | 3     |
| Mt0GroupOcc_Unr  | 1B         | 04        | 3     |
| Mt0GroupOccFlg   | 1B         |           | 2     |
| Mt0GroupReq      | 0          |           | 2     |
| mt0grp           | 1E         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| mt0hi_add  | 33         | 10        | 3     |
| mt0hi_chg  | 33         | 10        | 4     |
| mt0ia      | 1A         |           | 2     |
| mt0iad     | 1A         |           | 3     |
| mt0iat     | 20         |           | 3     |
| mt0ignore  | 9          | 04        | 3     |
| mt0im      | 10         |           | 3     |
| mt0imd     | 10         |           | 4     |
| mt0imset   | 33         | 80        | 3     |
| mt0imt     | 16         |           | 4     |
| mt0inGroup | 28         | 08        | 3     |
| mt0jvt     | 34         |           | 2     |
| mt0key     | 0          |           | 2     |
| mt0lgth    | 1C         |           | 2     |
| mt0mhld    | 54         | 80        | 3     |
| mt0mhldV   | 54         | 40        | 3     |
| mt0mivloff | 14         |           | 4     |
| mt0mon     | 33         | 02        | 3     |
| mt0msgid   | 14         |           | 2     |
| mt0mws     | 8          |           | 2     |
| mt0mws22   | 10         |           | 2     |
| mt0notlt   | 9          | 01        | 3     |
| mt0occ     | 0          |           | 1     |
| mt0OCCtok  | 20         |           | 2     |
| mt0ocd     | 60         |           | 2     |
| mt0ocflg   | 33         |           | 2     |
| mt0ocflg1  | 54         |           | 2     |
| mt0oid     | 26         |           | 2     |



| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| mt0otx      | 36         |           | 2     |
| mt0pifad    | 6          | 02        | 3     |
| mt0pri      | 2E         |           | 2     |
| mt0PSU_Appl | 28         | 80        | 3     |
| mt0Reas     | 33         | 20        | 3     |
| mt0rep      | 4          |           | 2     |
| mt0rep22    | C          |           | 2     |
| mt0resolve  | 9          | 10        | 3     |
| mt0restart  | 9          | 40        | 3     |
| mt0rod      | 150        |           | 2     |
| mt0rsst     | A          |           | 1     |
| mt0rsstd    | A          |           | 2     |
| mt0rsstt    | E          |           | 2     |
| mt0rsErr    | 8          |           | 2     |
| mt0rsJob    | 0          |           | 2     |
| mt0rsPanel  | 148        |           | 2     |
| mt0rsReason | 1C         |           | 2     |
| mt0rstrt    | 0          |           | 1     |
| mt0rsUsr    | C          |           | 2     |
| mt0SJR      | 28         | 04        | 3     |
| mt0stmp     | 14         |           | 3     |
| mt0time     | 18         |           | 4     |
| mt0Toler    | 33         | 08        | 3     |
| mt0turnov   | 9          | 80        | 3     |
| mt0tws      | 5          | 10        | 3     |
| mt0tws22    | D          | 10        | 3     |
| mt0txt      | 0          |           | 2     |
| mt0type     | 7          |           | 2     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| mt0v_aws         | 6          |           | 2     |
| mt0v_aws22       | E          |           | 2     |
| mt0v_dest22      | 4          |           | 2     |
| mt0v_link        | A          |           | 2     |
| mt0v_link22      | 12         |           | 2     |
| mt0v_opt         | 5          |           | 2     |
| mt0v_opt_ferr    | 5          | 40        | 3     |
| mt0v_opt_ferr22  | D          | 40        | 3     |
| mt0v_opt_fleav   | 5          | 80        | 3     |
| mt0v_opt_fleav22 | D          | 80        | 3     |
| mt0v_opt_frest   | 5          | 20        | 3     |
| mt0v_opt_frest22 | D          | 20        | 3     |
| mt0v_opt_rimmd   | 5          | 04        | 3     |
| mt0v_opt_rimmd22 | D          | 04        | 3     |
| mt0v_opt_rleav   | 5          | 10        | 3     |
| mt0v_opt_rleav22 | D          | 10        | 3     |
| mt0v_opt_rreru   | 5          | 08        | 3     |
| mt0v_opt_rreru22 | D          | 08        | 3     |
| mt0v_opt22       | D          |           | 2     |
| mt0v_stat        | 4          |           | 2     |
| mt0v_stat22      | C          |           | 2     |
| mt0v_var         | B          |           | 2     |
| mt0v_var_link    | B          | 80        | 3     |
| mt0v_var_link22  | 13         | 80        | 3     |
| mt0v_var_status  | B          | 40        | 3     |
| mt0v_var_stat22  | 13         | 40        | 3     |
| mt0v_var22       | 13         |           | 2     |
| mt0v_wsn         | 0          |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| mt0v_wsn22 | 0          |           | 2     |
| mt0vary    | 0          |           | 1     |
| mt0vary22  | 0          |           | 1     |
| mt0ver     | 4          |           | 2     |
| mt0wi      | 6          |           | 2     |
| mt0wi22    | E          |           | 2     |
| mt0wcf     | 5          |           | 2     |
| mt0wcf22   | D          |           | 2     |
| mt0wcp     | 5          | 80        | 3     |
| mt0wcp22   | D          | 80        | 3     |
| mt0wc1     | 5          | 40        | 3     |
| mt0wc122   | D          | 40        | 3     |
| mt0wc2     | 5          | 20        | 3     |
| mt0wc222   | D          | 20        | 3     |
| mt0ws      | 0          |           | 1     |
| mt0wsn     | 0          |           | 2     |
| mt0wsn22   | 0          |           | 2     |
| mt0ws22    | 0          |           | 1     |
| mt0xRerun  | 28         | 02        | 3     |

## NJE - JES NJE record

### Example

Name : DCLNJE

Function:

This segment declares a JES NJE node name entry record in the scheduler Side information file (EQQSIDS)

| Offsets |     |           |     |            |                      |
|---------|-----|-----------|-----|------------|----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description          |
| 0       | (0) | STRUCTURE | 80  | NJE        | NJE NODE NAME RECORD |

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 0       | (0)  | CHARACTER | 64  | NJEKEY     | KEY                        |
| 0       | (0)  | CHARACTER | 1   | NJETYPE    | RECORD TYPE 4              |
| 1       | (1)  | CHARACTER | 8   | NJENAME    | NAME OF JES NJE NODE       |
| 9       | (9)  | CHARACTER | 55  | *          | RESERVED (ZEROES)          |
| 64      | (40) | CHARACTER | 16  | NJEDATA    | DATA                       |
| 64      | (40) | CHARACTER | 4   | NJEDESC    | RECORD DESCRIPTOR = 'NJE ' |
| 68      | (44) | CHARACTER | 2   | NJEVERS    | RECORD VERSION = '01'      |
| 70      | (46) | CHARACTER | 1   | NJEJES     | JESTYPE 'A'=JES2 'B'=JES3  |
| 71      | (47) | BITSTRING | 1   | *          | RESERVED                   |
| 72      | (48) | CHARACTER | 8   | *          | RESERVED                   |
| 80      | (50) | CHARACTER |     | NJEEND     | END OF NJE                 |

### Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| NJE     | 0          |           | 1     |
| NJEDATA | 40         |           | 2     |
| NJEDESC | 40         |           | 3     |
| NJEEND  | 50         |           | 2     |
| NJEJES  | 46         |           | 3     |
| NJEKEY  | 0          |           | 2     |
| NJENAME | 1          |           | 3     |
| NJETYPE | 0          |           | 3     |
| NJEVERS | 44         |           | 3     |

### NMM - Normal mode manager parameters

#### Example

Name : DCLNMM

Function:

This segment defines the Normal Mode Manager parameter block. The NMM block is created by the Normal Mode Manager task and is addressable from the MCA after NMM has started successfully.

| Offsets |     |           |     |            |                                                              |
|---------|-----|-----------|-----|------------|--------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                  |
| 0       | (0) | STRUCTURE | 504 | NMM        | manager block                                                |
| 0       | (0) | CHARACTER | 4   | NMMDESC    | block descriptor = 'NMM '                                    |
| 4       | (4) | CHARACTER | 2   | NMMVER     | block mapping version                                        |
| 6       | (6) | BITSTRING | 4   | NMMFLAGS   | nmm status switches                                          |
| 6       | (6) | BITSTRING | 1   | NMMFLAG1   | nmm status flag1                                             |
|         |     | 1... .... |     | NMCPOPEN   | current plan is open                                         |
|         |     | .1.. .... |     | NMJSOPEN   | JS file is open                                              |
|         |     | ..1. .... |     | NMLTOPEN   | LTP file is open                                             |
|         |     | ...1 .... |     | NMSIOPEN   | SI file is open                                              |
|         |     | .... 1... |     | NMADOPEN   | AD file is open                                              |
|         |     | .... .1.. |     | NMJSCOPY   | will copy js file                                            |
|         |     | .... ..1. |     | NMBACKUP   | will take plan backup                                        |
|         |     | .... ...1 |     | NMTURNSW   | turnover in progress                                         |
| 7       | (7) | BITSTRING | 1   | NMMFLAG2   | nmm status flag2                                             |
|         |     | 1... .... |     | NMRFRESH   | refresh is requested                                         |
|         |     | .1.. .... |     | NMCPEQ     | CP data sets are equal                                       |
|         |     | ..1. .... |     | NMNCP      | NCP to be copied                                             |
|         |     | ...1 .... |     | NMCPLOCK   | current plan is locked                                       |
|         |     | .... 1... |     | NMCHLOCK   | checkpoint is locked                                         |
|         |     | .... .1.. |     | NMMARACT   | on AR is activated                                           |
|         |     | .... ..1. |     | NMJSFORCE  | force copy of js file                                        |
|         |     | .... ...1 |     | NMMARC     | on do Data Store clean up of hanging JOBLOG requests (dccln) |
| 8       | (8) | BITSTRING | 1   | NMMFLAG3   | NMM msgeqqn051 reas flag                                     |

| Offsets |     |           |     |            |                               |
|---------|-----|-----------|-----|------------|-------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                   |
|         |     | 1... ..   |     | NMMLIM     | backup(nn) limit reached      |
|         |     | .1.. ..   |     | NMMTO1     | DP turnover1 (start)          |
|         |     | ..1. .... |     | NMMTO2     | DP turnover2 (end)            |
|         |     | ...1 .... |     | NMMCMD     | BACKUP cmd issued             |
|         |     | .... 1... |     | NMMRST     | NMM recovery restart          |
|         |     | .... .1.. |     | NMMSTOP    | NMM normal termination        |
|         |     | .... ..1. |     | NMMJTE     | JT IO error                   |
|         |     | .... ...1 |     | NMMEDP     | edp full                      |
| 9       | (9) | BITSTRING | 1   | NMMFLAG4   | NMM status flag 4             |
|         |     | 1... ..   |     | NMCXOPEN   | current plan ext is open      |
|         |     | .1.. ..   |     | NMRDOPEN   | current plan ext is open      |
|         |     | ..1. .... |     | NMLTLOCK   | reserved                      |
|         |     | ...1 .... |     | NMADLOCK   | reserved                      |
|         |     | .... 1... |     | NMWSLOCK   | reserved                      |
|         |     | .... .1.. |     | NMRDLOCK   | reserved                      |
|         |     | .... ..1. |     | NMMSYMST   | 1 symphony is arriving        |
|         |     | .... ...1 |     | NMOCXWSA   | check CX open flag            |
| 10      | (A) | CHARACTER | 1   | NMMSTAT    | contains status of nmm        |
| 11      | (B) | BITSTRING | 2   | NMMJTFLG   | JT logging flags              |
|         |     | 1... ..   |     | NMJTFIRST  | write 1st record on JTlog     |
|         |     | .1.. ..   |     | NMJTLAST   | write last record on JTlog    |
|         |     | ..1. .... |     | NMJTARCF   | archiving finished posted     |
|         |     | ...1 .... |     | NMJTARCE   | perm error on archive log     |
|         |     | .... 1... |     | NMJTEVCP   | cp updates on jtlog ds        |
|         |     | .... .1.. |     | NMJTEVANY  | JTlog ds is not empty         |
|         |     | .... ..1. |     | NMJTLOCK   | JT archive ds is locked       |
|         |     | .... ...1 |     | NMJTIOER   | write error recovery in progr |

| Offsets |     |           |     |              |                              |
|---------|-----|-----------|-----|--------------|------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description                  |
| 12      | (C) | 1... ..   |     | NMJTTURN     | turnover has been requested  |
|         |     | .1.. ..   |     | NMJTAUXT     | exit11 status act-inact      |
|         |     | ..1. .... |     | NMSYMBACK    | sym renew backup             |
|         |     | ...1 .... |     | NMMMCP       | Tie change for MCP           |
|         |     | .... 1... |     | NMMURGDQE    | dont send Urg DQE            |
|         |     | .... .1.. |     | NMMPERMBP    | 1 = permanent buf pool       |
|         |     | .... ..11 |     | *            | free                         |
| 13      | (D) | BITSTRING | 1   | NMMNOERR     | noerror processing flags     |
|         |     | 1... ..   |     | NMNOPROC     | noerror processing requested |
|         |     | .1.. ..   |     | NMNOMEMB     | noerror member proc reqstd   |
|         |     | ..1. .... |     | NMNOLIST     | noerror table list reqstd    |
|         |     | ...1 .... |     | NMNOTRY      | noerror stmt trial           |
|         |     | .... 11.. |     | *            | free                         |
|         |     | .... ..1. |     | NMRFRDONE    | on. REFRESH done             |
|         |     | .... ...1 |     | NMSKIPIN     | SKIPINC command              |
| 14      | (E) | BITSTRING | 1   | NMMFLAG5     |                              |
|         |     | 1... ..   |     | NMPROTDD     |                              |
|         |     | .1.. ..   |     | NMPROTDS     |                              |
|         |     | ..1. .... |     | NMTURN2SW    | TWS synchron. required       |
|         |     | ...1 .... |     | NMTWSF       | TWS Synchron. ended          |
|         |     | .... 1... |     | NMTWSYN      | TWS Synchron. waiting        |
|         |     | .... .1.. |     | NMRFRSYM     | TWS being stopped for rfr    |
|         |     | .... ..1. |     | NMMSPECIAL   | TWS Special Event            |
|         |     | .... ...1 |     | NMTWSQ       | TWS quit ended               |
| 15      | (F) | CHARACTER | 1   | NMMTWSSTATUS | Enabler Status queue         |

normal mode manager control block addresses follow

| Offsets |      |         |     |            |                          |
|---------|------|---------|-----|------------|--------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description              |
| 16      | (10) | ADDRESS | 4   | NMMMCA     | mca address              |
| 20      | (14) | ADDRESS | 4   | NMMCIOC    | checkpoint io comm area  |
| 24      | (18) | ADDRESS | 4   | NMMJTDCB   | dcb address, jt log file |
| 28      | (1C) | ADDRESS | 4   | NMMJTBUF   | buffer addr curr jt file |
| 32      | (20) | ADDRESS | 4   | NMMOPC     | status record address    |
| 36      | (24) | ADDRESS | 4   | NMMHDR     | cp hdr record address    |
| 40      | (28) | ADDRESS | 4   | NMMEMP     | ev mgr parameter block   |
| 44      | (2C) | ADDRESS | 4   | NMMCPBUF   | buffer addr curr cp file |
| 48      | (30) | ADDRESS | 4   | NMMMCJTA   | addr of mcp jt event     |
| 52      | (34) | ADDRESS | 4   | NMMCMCTA   | addr of mt0 for mcp jt   |
| 56      | (38) | ADDRESS | 4   | NMMEMDQP   | ev manager suspend queue |
| 60      | (3C) | ADDRESS | 4   | NMMJTABP   | JTlog file table addr    |
| 64      | (40) | ADDRESS | 4   | NMMSTEP    | nmm subtask entry addr   |
| 68      | (44) | ADDRESS | 4   | NMMXCM     | XCM cache address        |
| 72      | (48) | ADDRESS | 4   | NMMDCXCM   | CM XCM cache addresss    |
| 76      | (4C) | ADDRESS | 4   | NMMQRSP    | RS main block address    |
| 80      | (50) | ADDRESS | 4   | NMMRSWP    | RS record work area      |
| 84      | (54) | ADDRESS | 4   | NMMJTBP    | ptr to JTB               |
| 88      | (58) | ADDRESS | 4   | NMMXDBUF   | buffer addr curr xd file |
| 92      | (5C) | SIGNED  | 4   | NMMXDSIZ   | xd record file size      |
| 96      | (60) | ADDRESS | 4   | NMMERRSTP  | error statement          |

general purpose flags

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 100     | (64) | BITSTRING | 4   | NMMFLAG6   |             |



| Offsets |      |           |     |                    |                                                                                                                                                                                          |
|---------|------|-----------|-----|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)         | Description                                                                                                                                                                              |
|         |      | 1... ..   |     | NMJVOPEN           | JV logical file open                                                                                                                                                                     |
|         |      | .1... ..  |     | NMCLEAN            | NMWRK cleanup                                                                                                                                                                            |
|         |      | ..1. .... |     | NMMSYNCRCVASKED    | EME2ERcvr Sync asked                                                                                                                                                                     |
|         |      | ...1 .... |     | NMMSYNCRCVRECEIVED | EME2ERcvr Sync event received by EM                                                                                                                                                      |
|         |      | .... 1... |     | NMMTNODEMSG        | N127N128 issued                                                                                                                                                                          |
|         |      | .... .1.. |     | NMMQDLOG           | QDLOG flag                                                                                                                                                                               |
|         |      | .... ..1. |     | NMMBULK            | bulkdisc event                                                                                                                                                                           |
|         |      | .... ...1 |     | NMMSCPOP           | SCP open bit                                                                                                                                                                             |
| 101     | (65) | 1... ..   |     | NMMSCPTOCLOSE      | going to close SCP                                                                                                                                                                       |
|         |      | .1... ..  |     | NMMBATCH2          |                                                                                                                                                                                          |
|         |      | ..1. .... |     | NMXDOPEN           | current XD is open                                                                                                                                                                       |
|         |      | ...1 .... |     | NMXDPENDLT         | ON some xd02 pend ltp                                                                                                                                                                    |
|         |      | .... 1... |     | NMXDPENDCP         | ON some xd02 pend ltp                                                                                                                                                                    |
|         |      | .... .1.. |     | NMCKPTINIT         | ON started CKPT init                                                                                                                                                                     |
|         |      | .... ..1. |     | NMFORCESEQNO       | ON seqno = 00                                                                                                                                                                            |
|         |      | .... ...1 |     | NMBKPTOK           | ON BKPT opened ok                                                                                                                                                                        |
| 102     | (66) | 1... ..   |     | NMMCPNEEDED        |                                                                                                                                                                                          |
|         |      | .1... ..  |     | NMMLTPNEEDED       | with BT task started                                                                                                                                                                     |
|         |      | ..1. .... |     | NMMEVSENT          | OFF when NMLIO send dqe to BACKUP Controller - issue eqqn139 (START sending) - set to OFF ON when NMLIO do not send dqe to BACKUP Controller - issue eqqn139 (STOP sending) - set to OFF |
|         |      | ...1 .... |     | NMMJTNEEDED        |                                                                                                                                                                                          |
|         |      | .... 1... |     | NMMSTOPCLONING     | EVENTSEND off cmd                                                                                                                                                                        |
|         |      | .... .1.. |     | NMMBKJTREAPPLY     | BACKUP need reapply                                                                                                                                                                      |

| Offsets |      |            |     |              |                       |
|---------|------|------------|-----|--------------|-----------------------|
| Dec     | Hex  | Type       | Len | Name (Dim)   | Description           |
|         |      | .... ..1.  |     | NMOIOPEN     | OI open               |
|         |      | .... ...1  |     | NMWSOPEN     | WS open               |
| 103     | (67) | 1... ....  |     | NMWSCLOPEN   | WSCL open             |
|         |      | .1... .... |     | NMCALOPEN    | CAL open              |
|         |      | ..1. ....  |     | NMPEROPEN    | PER open              |
|         |      | ...1 ....  |     | NMRUNOPEN    | RUN open              |
|         |      | .... 1...  |     | NMSTOPEN     | ST file is open       |
|         |      | .... .1..  |     | NMSTDDOK     | ST DD specified       |
|         |      | .... ..1.  |     | NMSETSTARTED | On: flag started oper |
|         |      | .... ...1  |     | NMJOBLIBopen | On: JOBLIB is open    |

various ecbs for NMM and its subtasks follow

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 104     | (68) | BITSTRING | 4   | NMMARECB   | auto recovery ecb        |
| 108     | (6C) | BITSTRING | 4   | NMMWAE CB  | workstation analyzer ecb |
| 112     | (70) | BITSTRING | 4   | NMMWE CB   | nmm work required ecb    |
| 116     | (74) | BITSTRING | 4   | NMMTME CB  | nmm timer ecb            |
| 120     | (78) | BITSTRING | 4   | NMMJTLOG   | JTlog archiving required |
| 124     | (7C) | BITSTRING | 4   | NMMJTFIN   | JTlog archiving finished |
| 128     | (80) | BITSTRING | 4   | NMMTWSECB  | TWS synchronization ecb  |
| 132     | (84) | BITSTRING | 4   | NMMTWSQUIT | TWS immediate stop       |

normal mode manager queue and chain headers follow

| Offsets |      |           |     |                   |                           |
|---------|------|-----------|-----|-------------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)        | Description               |
| 136     | (88) | ADDRESS   | 4   | NMMAREAS          | addr of first alloc area  |
| 140     | (8C) | ADDRESS   | 4   | NMMDOA1           | address of first doa      |
| 144     | (90) | ADDRESS   | 4   | NMMWQA1           | address of first wqa      |
| 148     | (94) | ADDRESS   | 4   | NMMTJT1           | addr of doa 1st time job  |
| 152     | (98) | ADDRESS   | 4   | NMMQUE1           | addr of 1st req que entry |
| 156     | (9C) | ADDRESS   | 4   | NMMDRA1           | address of first dra      |
| 160     | (A0) | ADDRESS   | 4   | NMMDOAFR          | first free doa            |
| 164     | (A4) | ADDRESS   | 4   | NMMWQAFR          | first free wqa            |
| 168     | (A8) | ADDRESS   | 4   | NMMQUEFR          | first free res que entry  |
| 172     | (AC) | ADDRESS   | 4   | NMMDRAFR          | first free dra            |
| 176     | (B0) | ADDRESS   | 4   | NMMIVLFR          | first free ivl            |
| 180     | (B4) | ADDRESS   | 4   | NMMDSEFR          | first free DSEINFO        |
| 184     | (B8) | BITSTRING | 4   | NMMSYNCEMRECEIVER | TWS immediate stop        |
| 188     | (BC) | BITSTRING | 4   | NMMBULKSTARTEDECB | Sincro with monitor task  |
| 192     | (C0) | ADDRESS   | 4   | NMMTNOFR          | first free tie node       |

## BACKUP CONTROLLER INFO

| Offsets |      |          |     |               |                                       |
|---------|------|----------|-----|---------------|---------------------------------------|
| Dec     | Hex  | Type     | Len | Name (Dim)    | Description                           |
| 196     | (C4) | UNSIGNED | 4   | NMMPREJTSEQNO | previous JT last written record seqno |
| 200     | (C8) | UNSIGNED | 4   | NMMCURJTSEQNO | current JT last written record seqno  |
| 204     | (CC) | UNSIGNED | 1   | NMMPREJTID    | previous JT id                        |
| 205     | (CD) | UNSIGNED | 1   | NMMCURJTID    | current JT id                         |
| 206     | (CE) | UNSIGNED | 2   | NMMFAILREAS   | failure reason                        |

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 208     | (D0) | BITSTRING | 4   | NMMBKECB   | BK resume ecb          |
| 212     | (D4) | ADDRESS   | 4   | NMMBKCKPTP | BK_CKPT address        |
| 216     | (D8) | ADDRESS   | 4   | NMMBKCIOC  | BK_CKPT comm area addr |
| 220     | (DC) | UNSIGNED  | 4   | NMMJTSEQNO | last written jt seqno  |
| 224     | (E0) | ADDRESS   | 4   | NMMBKINFOP | addr BKinfo            |
| 228     | (E4) | ADDRESS   | 4   | NMMJTSUSP  | addr JTsusp            |

miscellaneous saved nmm values

| Offsets |       |           |     |               |                                                  |
|---------|-------|-----------|-----|---------------|--------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)    | Description                                      |
| 232     | (E8)  | SIGNED    | 4   | NMMJTNOT      | track addr last JT note                          |
| 236     | (EC)  | SIGNED    | 4   | NMMJTBSZ      | size of current JT buff                          |
| 240     | (F0)  | SIGNED    | 4   | NMMBSIZE      | current plan record size                         |
| 244     | (F4)  | CHARACTER | 4   | NMMBKPDPT     | date, 1st event after bkp                        |
| 248     | (F8)  | CHARACTER | 4   | NMMBKPTM      | time, 1st event after bkp                        |
| 252     | (FC)  | SIGNED    | 4   | NMMJSOPT      | max jsfile size in bytes '-1' = auto copy active |
| 256     | (100) | SIGNED    | 4   | NMMJSCAS      | js file cylinder size                            |
| 260     | (104) | SIGNED    | 4   | NMMJSCNT      | num inserts on jsfile                            |
| 264     | (108) | SIGNED    | 4   | NMMTQLIM      | backup trk records limit '-1' = auto bkp active  |
| 268     | (10C) | SIGNED    | 4   | NMMTQTOT      | trk records since backup                         |
| 272     | (110) | CHARACTER | 8   | NMMTOKEN_FULL | operation full token                             |
| 272     | (110) | CHARACTER | 4   | NMMTOKEN_PRE  | prefix                                           |
| 276     | (114) | UNSIGNED  | 4   | NMMTOKEN      | opctoken                                         |
| 280     | (118) | SIGNED    | 4   | NMMJBUFZ      | reserved                                         |
| 284     | (11C) | SIGNED    | 4   | NMMENQCNT     | numb of enq attempts                             |

| Offsets |       |           |     |              |                           |
|---------|-------|-----------|-----|--------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description               |
| 288     | (120) | SIGNED    | 2   | NMMOPCSZ     | size of status rec buffer |
| 290     | (122) | SIGNED    | 2   | NMMHDSZ      | size of cp hdr rec buffer |
| 292     | (124) | SIGNED    | 2   | NMMDLFQ      | number of dlf enqs        |
| 294     | (126) | SIGNED    | 2   | NMMNSUBS     | number of nmm subtasks    |
| 296     | (128) | CHARACTER | 8   | NMMERRNM     | noerror parmlib memname   |
| 304     | (130) | CHARACTER | 64  | NMMEXIT      | timerexit                 |
| 368     | (170) | ADDRESS   | 4   | NMMHTCP      | ptr to HTC block          |
| 372     | (174) | SIGNED    | 4   | NMMHTCL      | length of HTC block       |
| 376     | (178) | ADDRESS   | 4   | NMMLSTTIEFP  | ptr to late tie chain     |
| 380     | (17C) | ADDRESS   | 4   | NMMLSTTIELP  | ptr to last late tie      |
| 384     | (180) | ADDRESS   | 4   | NMMTNOFLP    | ptr to first leaf TNode   |
| 388     | (184) | SIGNED    | 2   | NMMLASTIPO   | last ins tie relative pos |
| 390     | (186) | SIGNED    | 2   | NMMTNODENO   | nbr of TNodes             |
| 392     | (188) | ADDRESS   | 4   | NMMHTSP      | ptr to HTS block          |
| 396     | (18C) | SIGNED    | 4   | NMMHTSL      | length of HTS block       |
| 400     | (190) | CHARACTER | 4   | NMMWQANAME   | WSA name for cmd          |
| 404     | (194) | CHARACTER | 8   | NMMWQADEST   | WSA dest for cmd          |
| 412     | (19C) | UNSIGNED  | 4   | NMMBKJTSEQNO | curr JT seq nbr           |

normal mode manager cell pools

| Offsets |       |           |     |            |                           |
|---------|-------|-----------|-----|------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description               |
| 416     | (1A0) | SIGNED    | 4   | NMMTIEPID  | Time Queue cell pool id   |
| 420     | (1A4) | ADDRESS   | 4   | NMMTIEPTR  | adress of first tie       |
| 424     | (1A8) | ADDRESS   | 4   | NMMDSRFR   | first free DSRinfo        |
| 428     | (1AC) | CHARACTER | 16  | NMMTOKTCB  | TCB token of the NMM task |

| Offsets |       |           |     |             |                             |
|---------|-------|-----------|-----|-------------|-----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description                 |
| 444     | (1BC) | CHARACTER | 8   | NMMDDMEM    | PROTxx command              |
| 452     | (1C4) | CHARACTER | 8   | NMMDSMEM    | PROTxx command              |
| 460     | (1CC) | CHARACTER | 1   | NMMASYMST   | Symphony asynchro phase     |
| 461     | (1CD) | CHARACTER | 8   | NMMSKIPMEM  | SKIPINCL member name        |
| 469     | (1D5) | BITSTRING | 1   | NMMZCMDFLAG | noerror processing flags    |
|         |       | 1... ..   |     | *           | - DSPJTBL not moved ... sed |
|         |       | .1.. ..   |     | *           | - DSPJIDX not moved ... sed |
|         |       | ..1. .... |     | NMMDWQA     | - DWQA requested            |
|         |       | ...1 .... |     | NMMSWQA     | - SWQA requested            |
|         |       | .... 1... |     | NMMDSPTNOD  | - DSPTNOD requested         |
|         |       | .... .1.. |     | NMMDSPLTIE  | - DSPLTIE requested         |
|         |       | .... ..1. |     | *           | -                           |
|         |       | .... ...1 |     | *           | -                           |
| 470     | (1D6) | UNSIGNED  | 1   | NMMERRODBG  | debug error                 |
| 471     | (1D7) | CHARACTER | 1   | NMMSNDEVCMD | 0 1 2                       |
| 472     | (1D8) | ADDRESS   | 4   | NMMTNOFP    | first Tie Node ptr          |

| Offsets |       |           |     |             |                                  |
|---------|-------|-----------|-----|-------------|----------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description                      |
| 476     | (1DC) | ADDRESS   | 4   | NMMDSAFR    | first free DSAINFO               |
| 480     | (1E0) | ADDRESS   | 4   | NMMTNOLLP   | ptr to last leaf TNode           |
| 484     | (1E4) | ADDRESS   | 4   | NMMCTOKEN   | C Interface Token                |
| 488     | (1E8) | ADDRESS   | 4   | NMMJLIBDCBP | address of JOBLIB NMM DCB        |
| 492     | (1EC) | ADDRESS   | 4   | NMMJLIBBUF  | address of JOBLIB NMM I/O buffer |
| 488     | (1E8) | CHARACTER | 8   | *           | free                             |
| 504     | (1F8) | CHARACTER |     | NMMEND      | end of nmm block                 |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| NMADLOCK     | 9          | 10        | 4     |
| NMADOPEN     | 6          | 08        | 4     |
| NMBACKUP     | 6          | 02        | 4     |
| NMBKPTOK     | 65         | 01        | 3     |
| NMCALOPEN    | 67         | 40        | 3     |
| NMCHLOCK     | 7          | 08        | 4     |
| NMCKPTINIT   | 65         | 04        | 3     |
| NMCLEAN      | 64         | 40        | 3     |
| NMCPEQ       | 7          | 40        | 4     |
| NMCPLOCK     | 7          | 10        | 4     |
| NMCPOPEN     | 6          | 80        | 4     |
| NMCXOPEN     | 9          | 80        | 4     |
| NMFORCESEQNO | 65         | 02        | 3     |
| NMJSCOPY     | 6          | 04        | 4     |
| NMJSFORCE    | 7          | 02        | 4     |
| NMJSOPEN     | 6          | 40        | 4     |
| NMJTARCE     | B          | 10        | 3     |
| NMJTARCF     | B          | 20        | 3     |
| NMJTAUXT     | C          | 40        | 3     |
| NMJTEVANY    | B          | 04        | 3     |
| NMJTEVCP     | B          | 08        | 3     |
| NMJTFIRST    | B          | 80        | 3     |
| NMJTIOER     | B          | 01        | 3     |
| NMJTLAST     | B          | 40        | 3     |
| NMJTLOCK     | B          | 02        | 3     |
| NMJTTURN     | C          | 80        | 3     |
| NMJVOPEN     | 64         | 80        | 3     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| NMLTLOCK           | 9          | 20        | 4     |
| NMLTOPEN           | 6          | 20        | 4     |
| NMM                | 0          |           | 1     |
| NMMARACT           | 7          | 04        | 4     |
| NMMARC             | 7          | 01        | 4     |
| NMMAREAS           | 88         |           | 2     |
| NMMARECB           | 68         |           | 2     |
| NMMASYMST          | 1CC        |           | 2     |
| NMMBATCH2          | 65         | 40        | 3     |
| NMMBK_CKPTP        | D4         |           | 2     |
| NMMBKCIOC          | D8         |           | 2     |
| NMMBKECB           | D0         |           | 2     |
| NMMBKINFOP         | E0         |           | 2     |
| NMMBKJTREAPPLY     | 66         | 04        | 3     |
| NMMBKJTSEQNO       | 19C        |           | 2     |
| NMMBKPDPT          | F4         |           | 2     |
| NMMBKPTM           | F8         |           | 2     |
| NMMBSIZE           | F0         |           | 2     |
| NMMBULK            | 64         | 02        | 3     |
| NMMBULKSTARTED ECB | BC         |           | 2     |
| NMMCIOC            | 14         |           | 2     |
| NMMCMD             | 8          | 10        | 4     |
| NMMCPBUF           | 2C         |           | 2     |
| NMMCPNEEDED        | 66         | 80        | 3     |
| NMMCTOKEN          | 1E4        |           | 2     |
| NMMCURJTID         | CD         |           | 2     |
| NMMCURJTSEQNO      | C8         |           | 2     |
| NMMDCXCM           | 48         |           | 2     |



| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| NMMDDMEM    | 1BC        |           | 2     |
| NMMDESC     | 0          |           | 2     |
| NMMDLFQ     | 124        |           | 2     |
| NMMDOAFR    | A0         |           | 2     |
| NMMDOA1     | 8C         |           | 2     |
| NMMDRAFR    | AC         |           | 2     |
| NMMDRA1     | 9C         |           | 2     |
| NMMDSAFR    | 1DC        |           | 2     |
| NMMDSEFR    | B4         |           | 2     |
| NMMDSMEM    | 1C4        |           | 2     |
| NMMDSPLTIE  | 1D5        | 04        | 3     |
| NMMDSPTNOD  | 1D5        | 08        | 3     |
| NMMDSRFR    | 1A8        |           | 2     |
| NMMDWQA     | 1D5        | 20        | 3     |
| NMMEDP      | 8          | 01        | 4     |
| NMMEMDQP    | 38         |           | 2     |
| NMMEMP      | 28         |           | 2     |
| NMMEND      | 1F8        |           | 2     |
| NMMENQCNT   | 11C        |           | 2     |
| NMMERRNM    | 128        |           | 2     |
| NMMERRODBG  | 1D6        |           | 2     |
| NMMERRSTP   | 60         |           | 2     |
| NMMEVSENT   | 66         | 20        | 3     |
| NMMEXIT     | 130        |           | 2     |
| NMMFAILREAS | CE         |           | 2     |
| NMMFLAGS    | 6          |           | 2     |
| NMMFLAG1    | 6          |           | 3     |
| NMMFLAG2    | 7          |           | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| NMMFLAG3    | 8          |           | 3     |
| NMMFLAG4    | 9          |           | 3     |
| NMMFLAG5    | E          |           | 2     |
| NMMFLAG6    | 64         |           | 2     |
| NMMHDR      | 24         |           | 2     |
| NMMHDRSZ    | 122        |           | 2     |
| NMMHTCL     | 174        |           | 2     |
| NMMHTCP     | 170        |           | 2     |
| NMMHTSL     | 18C        |           | 2     |
| NMMHTSP     | 188        |           | 2     |
| NMMIVLFR    | B0         |           | 2     |
| NMMJBUFZ    | 118        |           | 2     |
| NMMJLIBBUF  | 1EC        |           | 2     |
| NMMJLIBDCBP | 1E8        |           | 2     |
| NMMJLIBOPEN | 67         | 01        | 3     |
| NMMJSCAS    | 100        |           | 2     |
| NMMJSCNT    | 104        |           | 2     |
| NMMJSOPT    | FC         |           | 2     |
| NMMJTABP    | 3C         |           | 2     |
| NMMJTBP     | 54         |           | 2     |
| NMMJTBSZ    | EC         |           | 2     |
| NMMJTBUF    | 1C         |           | 2     |
| NMMJTDCB    | 18         |           | 2     |
| NMMJTE      | 8          | 02        | 4     |
| NMMJTFIN    | 7C         |           | 2     |
| NMMJTFLG    | B          |           | 2     |
| NMMJTLOG    | 78         |           | 2     |
| NMMJTNEEDED | 66         | 10        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| NMMJTNOT      | E8         |           | 2     |
| NMMJTSEQNO    | DC         |           | 2     |
| NMMJTSUSP     | E4         |           | 2     |
| NMMLASTIPO    | 184        |           | 2     |
| NMMLIM        | 8          | 80        | 4     |
| NMMLSTTIEFP   | 178        |           | 2     |
| NMMLSTTIELP   | 17C        |           | 2     |
| NMMLTPNEEDED  | 66         | 40        | 3     |
| NMMMCA        | 10         |           | 2     |
| NMMMCJTA      | 30         |           | 2     |
| NMMCMCTA      | 34         |           | 2     |
| NMMMCP        | C          | 10        | 3     |
| NMMNOERR      | D          |           | 2     |
| NMMNSUBS      | 126        |           | 2     |
| NMMOPC        | 20         |           | 2     |
| NMMOPCSZ      | 120        |           | 2     |
| NMMPERMBP     | C          | 04        | 3     |
| NMMPREJTID    | CC         |           | 2     |
| NMMPREJTSEQNO | C4         |           | 2     |
| NMMQDLOG      | 64         | 04        | 3     |
| NMMQRSP       | 4C         |           | 2     |
| NMMQUEFR      | A8         |           | 2     |
| NMMQUE1       | 98         |           | 2     |
| NMMRST        | 8          | 08        | 4     |
| NMMRSWP       | 50         |           | 2     |
| NMMSCPOP      | 64         | 01        | 3     |
| NMMSCPTOCLOSE | 65         | 80        | 3     |
| NMMSKIPMEM    | 1CD        |           | 2     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| NMMSNDEVCMD        | 1D7        |           | 2     |
| NMMSPECIAL         | E          | 02        | 3     |
| NMMSTAT            | A          |           | 2     |
| NMMSTEP            | 40         |           | 2     |
| NMMSTOP            | 8          | 04        | 4     |
| NMMSTOPCLONING     | 66         | 08        | 3     |
| NMMSWQA            | 1D5        | 10        | 3     |
| NMMSYMST           | 9          | 02        | 4     |
| NMMSYNCEMRECEIVER  | B8         |           | 2     |
| NMMSYNCRCVASKED    | 64         | 20        | 3     |
| NMMSYNCRCVRECEIVED | 64         | 10        | 3     |
| NMMTIEPID          | 1A0        |           | 2     |
| NMMTIEPTR          | 1A4        |           | 2     |
| NMMTJT1            | 94         |           | 2     |
| NMMTMECB           | 74         |           | 2     |
| NMMTNODEMSG        | 64         | 08        | 3     |
| NMMTNODENO         | 186        |           | 2     |
| NMMTNOFLP          | 180        |           | 2     |
| NMMTNOFP           | 1D8        |           | 2     |
| NMMTNOFR           | C0         |           | 2     |
| NMMTNOLLP          | 1E0        |           | 2     |
| NMMTOKEN           | 114        |           | 3     |
| NMMTOKEN_FULL      | 110        |           | 2     |
| NMMTOKEN_PRE       | 110        |           | 3     |
| NMMTOKTCB          | 1AC        |           | 2     |
| NMMTO1             | 8          | 40        | 4     |
| NMMTO2             | 8          | 20        | 4     |
| NMMTQLIM           | 108        |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| NMMTQTOT     | 10C        |           | 2     |
| NMMTWSECB    | 80         |           | 2     |
| NMMTWSQUIT   | 84         |           | 2     |
| NMMTWSSTATUS | F          |           | 2     |
| NMMURGDQE    | C          | 08        | 3     |
| NMMVER       | 4          |           | 2     |
| NMMWAECB     | 6C         |           | 2     |
| NMMWECEB     | 70         |           | 2     |
| NMMWQADEST   | 194        |           | 2     |
| NMMWQAFR     | A4         |           | 2     |
| NMMWQANAME   | 190        |           | 2     |
| NMMWQA1      | 90         |           | 2     |
| NMMXCM       | 44         |           | 2     |
| NMMXDBUF     | 58         |           | 2     |
| NMMXDSIZ     | 5C         |           | 2     |
| NMMZCMDFLAG  | 1D5        |           | 2     |
| NMNCP        | 7          | 20        | 4     |
| NMNOLIST     | D          | 20        | 3     |
| NMNOMEMB     | D          | 40        | 3     |
| NMNOPROC     | D          | 80        | 3     |
| NMNOTRY      | D          | 10        | 3     |
| NMOCXWSA     | 9          | 01        | 4     |
| NMOIOPEN     | 66         | 02        | 3     |
| NMPEROPEN    | 67         | 20        | 3     |
| NMPROTDD     | E          | 80        | 3     |
| NMPROTDS     | E          | 40        | 3     |
| NMRDLOCK     | 9          | 04        | 4     |
| NMRDOPEN     | 9          | 40        | 4     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| NMRFRDONE    | D          | 02        | 3     |
| NMRFRESH     | 7          | 80        | 4     |
| NMRFRSYM     | E          | 04        | 3     |
| NMRUNOPEN    | 67         | 10        | 3     |
| NMSETSTARTED | 67         | 02        | 3     |
| NMSIOPEN     | 6          | 10        | 4     |
| NMSKIPIN     | D          | 01        | 3     |
| NMSTDDOK     | 67         | 04        | 3     |
| NMSTOPEN     | 67         | 08        | 3     |
| NMSYMBACK    | C          | 20        | 3     |
| NMTURNSW     | 6          | 01        | 4     |
| NMTURN2SW    | E          | 20        | 3     |
| NMTWSF       | E          | 10        | 3     |
| NMTWSQ       | E          | 01        | 3     |
| NMTWSYN      | E          | 08        | 3     |
| NMWSCLOPEN   | 67         | 80        | 3     |
| NMWSLOCK     | 9          | 08        | 4     |
| NMWSOPEN     | 66         | 01        | 3     |
| NMXDOPEN     | 65         | 20        | 3     |
| NMXDPENDCP   | 65         | 08        | 3     |
| NMXDPENDLT   | 65         | 10        | 3     |

## NNN - Node name record

### Example

Name : DCLNNN

Function:

This segment declares the scheduler node name checkpoint record. This record is always the second record on the first track of the checkpoint data set.

| Offsets |        |           |      |                 |                           |
|---------|--------|-----------|------|-----------------|---------------------------|
| Dec     | Hex    | Type      | Len  | Name (Dim)      | Description               |
| 0       | (0)    | STRUCTURE | 8024 | NNN             | NODE NAME RECORD          |
| 0       | (0)    | CHARACTER | 4    | NNNDESC         | BLOCK DESCRIPTOR = 'NNN ' |
| 4       | (4)    | CHARACTER | 2    | NNNVER          | BLOCK MAPPING VERSION     |
| 6       | (6)    | BITSTRING | 2    | *               | RESERVED                  |
| 8       | (8)    | SIGNED    | 4    | NNNNODES        | NUMBER OF NODES IN RECORD |
| 12      | (C)    | SIGNED    | 4    | * (3)           | RESERVED (INIT TO ZERO)   |
| 24      | (18)   | CHARACTER | 8    | NNNNAMES (1000) | KNOWN NODE NAMES          |
| 8024    | (1F58) | CHARACTER |      | NNNEND          | END OF NNN                |

## OPC - OPCSTAT record

### Example

Name : DCLOPC

Function:

This is the OPCSTAT record mapping. This record is first in the checkpoint data set.

| Offsets |      |           |     |            |                                        |
|---------|------|-----------|-----|------------|----------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                            |
| 0       | (0)  | STRUCTURE | 104 | OPCSTAT    | opc status record                      |
| 0       | (0)  | CHARACTER | 10  | OPCKEY     | key always='0000000000'                |
| 10      | (A)  | CHARACTER | 6   | *          | reserved                               |
| 16      | (10) | SIGNED    | 2   | OPCREPL    | number of replans since last plan next |
| 18      | (12) | CHARACTER | 10  | OPCDPEN    | dp plan period end                     |
| 18      | (12) | CHARACTER | 6   | OPCDPEND   | dp plan period end date                |
| 24      | (18) | CHARACTER | 4   | OPCDPENT   | dp plan period end time                |
| 28      | (1C) | CHARACTER | 8   | OPCCPDDN   | current plan ddn                       |
| 36      | (24) | CHARACTER | 8   | OPCOCRDD   | old current plan ddn                   |
| 44      | (2C) | CHARACTER | 2   | OPCJTcur   | Current JTlog number                   |
| 46      | (2E) | CHARACTER | 2   | OPCJTARC   | Last archived JTlog                    |
| 48      | (30) | CHARACTER | 2   | OPCJTMAX   | Max JTlog number                       |

| Offsets |      |           |     |                |                                                                                    |
|---------|------|-----------|-----|----------------|------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                                                        |
| 50      | (32) | CHARACTER | 1   | OPCJTOPE       | archive JTlog open                                                                 |
| 51      | (33) | CHARACTER | 1   | OPCSYMRF       | symphony after refresh                                                             |
| 52      | (34) | CHARACTER | 8   | *              | reserved                                                                           |
| 60      | (3C) | CHARACTER | 1   | OPCCP          | current plan exists, Y N                                                           |
| 61      | (3D) | CHARACTER | 1   | OPCJTDL        | backup JT created, Y N                                                             |
| 62      | (3E) | CHARACTER | 1   | OPCTUNCP       | turnover flag                                                                      |
| 63      | (3F) | CHARACTER | 8   | OPCCURJS       | ddn for jsfile in use                                                              |
| 71      | (47) | CHARACTER | 1   | OPCBACKINGUP   | backup started Y N                                                                 |
| 72      | (48) | CHARACTER | 10  | OPCLEVEL       | CKPT block code level                                                              |
| 72      | (48) | CHARACTER | 2   | OPCVER         | block mapping version                                                              |
| 74      | (4A) | CHARACTER | 8   | OPCFMID        | OPCESA tracker fmid                                                                |
| 82      | (52) | CHARACTER | 1   | OPCCKPTR       | CKPT refresh Y N                                                                   |
| 83      | (53) | CHARACTER | 1   | OPCTEYEC       | what batch is running                                                              |
| 84      | (54) | SIGNED    | 4   | OPCSYMRUNNUM   | Symphony current run num                                                           |
| 88      | (58) | CHARACTER | 1   | OPCTUNSYM      | Symphony turnover flag                                                             |
| 89      | (59) | CHARACTER | 1   | OPCTWSYN       | Y = TWS syncro failed                                                              |
| 90      | (5A) | CHARACTER | 1   | OPCTUNASYM     | Symphony turnover Asynch                                                           |
| 91      | (5B) | CHARACTER | 1   | OPCTWSJBNM     | TWSJOBNAME in JTOPTS 'O' = OCCNAME<br>'E' = EXTNAME 'X' = EXTNOC 'J' =<br>JOBNAME  |
| 92      | (5C) | SIGNED    | 2   | OPCSUPOL       | suppress policy from opt                                                           |
| 94      | (5E) | BITSTRING | 2   | OPCFLAGS       | bit battery                                                                        |
|         |      | 1... ..   |     | OPCNOPTIME     | TOPOLOGY NOPTIMEDEP                                                                |
| 94      | (5E) | BITSTRING | 1   | *              | free                                                                               |
| 96      | (60) | UNSIGNED  | 4   | OPCLASTJTSEQNO | Primary Controller - last written SEQNO<br>Backup Controller - last received SEQNO |
| 100     | (64) | CHARACTER | 4   | *              | spare                                                                              |



## Cross reference

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| OPCREPL        | 10         |           | 2     |
| OPCBACKINGUP   | 47         |           | 2     |
| OPCCKPTR       | 52         |           | 2     |
| OPCCP          | 3C         |           | 2     |
| OPCCPDDN       | 1C         |           | 2     |
| OPCCURJS       | 3F         |           | 2     |
| OPCDPEN        | 12         |           | 2     |
| OPCDPEND       | 12         |           | 3     |
| OPCDPENT       | 18         |           | 3     |
| OPCFLAGS       | 5E         |           | 2     |
| OPCFMID        | 4A         |           | 3     |
| OPCJTARC       | 2E         |           | 2     |
| OPCJTCUR       | 2C         |           | 2     |
| OPCJTDL        | 3D         |           | 2     |
| OPCJTMAX       | 30         |           | 2     |
| OPCJTOPE       | 32         |           | 2     |
| OPCKEY         | 0          |           | 2     |
| OPCLASTJTSEQNO | 60         |           | 2     |
| OPCLEVEL       | 48         |           | 2     |
| OPCNOPTIME     | 5E         | 80        | 3     |
| OPCOCRDD       | 24         |           | 2     |
| OPCSTAT        | 0          |           | 1     |
| OPCSUPOL       | 5C         |           | 2     |
| OPCSYMRP       | 33         |           | 2     |
| OPCSYMRUNNUM   | 54         |           | 2     |
| OPCTEYEC       | 53         |           | 2     |
| OPCTUNASYM     | 5A         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| OPCTUNCP   | 3E         |           | 2     |
| OPCTUNSYM  | 58         |           | 2     |
| OPCTWSJBNM | 5B         |           | 2     |
| OPCTWSYN   | 59         |           | 2     |
| OPCVER     | 48         |           | 3     |

## OPERR - Ops in error report record in DP

### Example

Name : DCLOPERR

Function:

Describes layout of oper in error records representing report data on occurrences which have one/more operations in error, when the last back-up of current plan was created. The records have the standard recsize and keysize of DPIN records.

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 0       | (0)  | STRUCTURE | 266 | OPEAREA    | OPE RECORD                 |
| 0       | (0)  | CHARACTER | 114 | OPEKEY     | KEY                        |
| 0       | (0)  | SIGNED    | 2   | OPETYPE    | TYPE IS ALWAYS 6           |
| 2       | (2)  | CHARACTER | 2   | *          | ADJUST TO ADID OFFS        |
| 4       | (4)  | CHARACTER | 34  | *          | ADJUST KEY SIZE            |
| 38      | (26) | CHARACTER | 26  | OPEOCC     | OCCURANCE IDENTIFICATION   |
| 38      | (26) | CHARACTER | 16  | OPEADID    | APPLICATION IDENTIFICATION |
| 54      | (36) | CHARACTER | 10  | OPEOPIA    | PLANNED OCC INPUT ARRIVAL  |
| 54      | (36) | CHARACTER | 6   | OPEOPIAD   | DAY (YYMMDD)               |
| 54      | (36) | CHARACTER | 4   | OPEOPIAY   |                            |
| 58      | (3A) | CHARACTER | 2   | OPEOPIAE   | (DD)                       |
| 60      | (3C) | CHARACTER | 4   | OPEOPIAT   | TIME (HHMM)                |
| 60      | (3C) | CHARACTER | 2   | OPEOPIAH   | TIME (HH)                  |
| 62      | (3E) | CHARACTER | 2   | OPEOPIAM   | TIME (MM)                  |

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 64      | (40) | CHARACTER | 7   | OPEWSID    | WSID OF OPERATION        |
| 64      | (40) | CHARACTER | 3   | OPEWSIDN   | OPERATION NUMBER         |
| 67      | (43) | CHARACTER | 4   | OPEWSIDS   | WORKSTATION NAME         |
| 71      | (47) | CHARACTER | 43  | *          | TO FILL UP THE KEY       |
| 114     | (72) | CHARACTER | 152 | OPEDATA    | DATA PART OF OPE RECORD  |
| 114     | (72) | CHARACTER | 24  | OPEOTXT    | APPLICATION TEXT         |
| 138     | (8A) | CHARACTER | 1   | OPEOPRI    | PRIORITY                 |
| 139     | (8B) | CHARACTER | 10  | OPEOAIA    | ACTUAL OCC INPUT ARRIVAL |
| 139     | (8B) | CHARACTER | 6   | OPEOAIAAD  | DAY (YYMMDD)             |
| 139     | (8B) | CHARACTER | 4   | OPEOAIAAY  | (YYMM)                   |
| 143     | (8F) | CHARACTER | 2   | OPEOAIAE   | (DD)                     |
| 145     | (91) | CHARACTER | 4   | OPEOAIAAT  | TIME (HHMM)              |
| 145     | (91) | CHARACTER | 2   | OPEOAIAH   | TIME (HH)                |
| 147     | (93) | CHARACTER | 2   | OPEOAIAM   | TIME (MM)                |
| 149     | (95) | CHARACTER | 10  | OPEOPC     | PLANNED OCC. COMPLETION  |
| 149     | (95) | CHARACTER | 6   | OPEOPCDT   | DAY (YYMMDD)             |
| 149     | (95) | CHARACTER | 4   | OPEOPCY    | (YYMM)                   |
| 153     | (99) | CHARACTER | 2   | OPEOPCD    | (DD)                     |
| 155     | (9B) | CHARACTER | 4   | OPEOPCT    | TIME (HHMM)              |
| 155     | (9B) | CHARACTER | 2   | OPEOPCH    | TIME (HH )               |
| 157     | (9D) | CHARACTER | 2   | OPEOPCM    | TIME (MM)                |
| 159     | (9F) | CHARACTER | 24  | OPEOPTXT   | OPERATION TEXT           |
| 183     | (B7) | CHARACTER | 8   | OPEJBNM    | JOBNAME                  |
| 191     | (BF) | CHARACTER | 10  | OPESPIA    | SPECIFIC OPER INPUT ARR. |
| 191     | (BF) | CHARACTER | 6   | OPESPIAD   | DAY (YYMMDD)   BLANK     |
| 191     | (BF) | CHARACTER | 4   | OPESPIAY   | (YYMM)                   |
| 195     | (C3) | CHARACTER | 2   | OPESPIAE   | (DD)                     |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 197     | (C5) | CHARACTER | 4   | OPESPIAT   | TIME (HHMM)   BLANK       |
| 197     | (C5) | CHARACTER | 2   | OPEPIAH    | TIME (HH )                |
| 199     | (C7) | CHARACTER | 2   | OPEPIAM    | TIME (MM)                 |
| 201     | (C9) | CHARACTER | 10  | OPEPAIA    | ACTUAL OPER INPUT ARRIVAL |
| 201     | (C9) | CHARACTER | 6   | OPEPAIAD   | DAY (YYMMDD)              |
| 201     | (C9) | CHARACTER | 4   | OPEPAIAY   | (YYMM)                    |
| 205     | (CD) | CHARACTER | 2   | OPEPAIAE   | (DD)                      |
| 207     | (CF) | CHARACTER | 4   | OPEPAIAT   | TIME (HHMM)               |
| 207     | (CF) | CHARACTER | 2   | OPEPIAH    | TIME (HH )                |
| 209     | (D1) | CHARACTER | 2   | OPEPAIAM   | TIME (MM)                 |
| 211     | (D3) | CHARACTER | 10  | OPEPPC     | LATEST OUT                |
| 211     | (D3) | CHARACTER | 6   | OPEPPCDT   | DAY (YYMMDD)              |
| 211     | (D3) | CHARACTER | 4   | OPEPPCY    | (YYMM )                   |
| 215     | (D7) | CHARACTER | 2   | OPEPPCD    | (DD)                      |
| 217     | (D9) | CHARACTER | 4   | OPEPPCT    | TIME (HHMM)               |
| 217     | (D9) | CHARACTER | 2   | OPEPPCH    | TIME (HH)                 |
| 219     | (DB) | CHARACTER | 2   | OPEPPCM    | TIME ( MM)                |
| 221     | (DD) | CHARACTER | 10  | OPEPSC     | SPECIFIC OPER COMPLETION  |
| 221     | (DD) | CHARACTER | 6   | OPEPSCT    | DAY (YYMMDD)  BLANK       |
| 221     | (DD) | CHARACTER | 4   | OPEPSCY    | (YYMM )                   |
| 225     | (E1) | CHARACTER | 2   | OPEPSCD    | (DD)                      |
| 227     | (E3) | CHARACTER | 4   | OPEPACT    | TIME (HHMM)  BLANK        |
| 227     | (E3) | CHARACTER | 2   | OPEPSCH    | TIME (HH)                 |
| 229     | (E5) | CHARACTER | 2   | OPEPSCM    | TIME ( MM)                |
| 231     | (E7) | CHARACTER | 4   | OPEODUR    | OPERATION DURATION        |
| 231     | (E7) | CHARACTER | 2   | OPEODURH   | TIME (HH )                |
| 233     | (E9) | CHARACTER | 2   | OPEODURM   | (MM)                      |

| Offsets |       |           |     |            |                      |
|---------|-------|-----------|-----|------------|----------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description          |
| 235     | (EB)  | CHARACTER | 10  | OPEERR     | TIME FOR OPER ERROR  |
| 235     | (EB)  | CHARACTER | 6   | OPEERRDT   | DAY (YYMMDD)         |
| 235     | (EB)  | CHARACTER | 4   | OPEERRY    | (YYMM )              |
| 239     | (EF)  | CHARACTER | 2   | OPEERRD    | (DD)                 |
| 241     | (F1)  | CHARACTER | 4   | OPEERRT    | TIME (HHMM)          |
| 241     | (F1)  | CHARACTER | 2   | OPEERRTH   | TIME (HH)            |
| 243     | (F3)  | CHARACTER | 2   | OPEERRTM   | TIME (MM)            |
| 245     | (F5)  | CHARACTER | 4   | OPEOPERR   | OPERATION ERROR CODE |
| 249     | (F9)  | CHARACTER | 16  | OPEOPUDATA | OPERATION USERDATA   |
| 265     | (109) | CHARACTER | 1   | OPECMSTAT  | CAT MGT STATUS       |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| OPEADID   | 26         |           | 4     |
| OPEAREA   | 0          |           | 1     |
| OPECMSTAT | 109        |           | 3     |
| OPEDATA   | 72         |           | 2     |
| OPEERR    | EB         |           | 3     |
| OPEERRD   | EF         |           | 5     |
| OPEERRDT  | EB         |           | 4     |
| OPEERRT   | F1         |           | 4     |
| OPEERRTH  | F1         |           | 5     |
| OPEERRTM  | F3         |           | 5     |
| OPEERRY   | EB         |           | 5     |
| OPEJBNM   | B7         |           | 3     |
| OPEKEY    | 0          |           | 2     |
| OPEOAIA   | 8B         |           | 3     |
| OPEOAIAD  | 8B         |           | 4     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| OPEOIAIE   | 8F         |           | 5     |
| OPEOIAIH   | 91         |           | 5     |
| OPEOIAM    | 93         |           | 5     |
| OPEOAIAT   | 91         |           | 4     |
| OPEOAIAY   | 8B         |           | 5     |
| OPEOCC     | 26         |           | 3     |
| OPEODUR    | E7         |           | 3     |
| OPEODURH   | E7         |           | 4     |
| OPEODURM   | E9         |           | 4     |
| OPEOPC     | 95         |           | 3     |
| OPEOPCD    | 99         |           | 5     |
| OPEOPCDT   | 95         |           | 4     |
| OPEOPCH    | 9B         |           | 5     |
| OPEOPCM    | 9D         |           | 5     |
| OPEOPCT    | 9B         |           | 4     |
| OPEOPCY    | 95         |           | 5     |
| OPEOPERR   | F5         |           | 3     |
| OPEOPIA    | 36         |           | 4     |
| OPEOPIAD   | 36         |           | 5     |
| OPEOPIAE   | 3A         |           | 6     |
| OPEOPIAH   | 3C         |           | 6     |
| OPEOPIAM   | 3E         |           | 6     |
| OPEOPIAT   | 3C         |           | 5     |
| OPEOPIAY   | 36         |           | 6     |
| OPEOPRI    | 8A         |           | 3     |
| OPEOPTXT   | 9F         |           | 3     |
| OPEOPUDATA | F9         |           | 3     |
| OPEOTXT    | 72         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| OPEPACT  | E3         |           | 4     |
| OPEPAIA  | C9         |           | 3     |
| OPEPAIAD | C9         |           | 4     |
| OPEPAIAE | CD         |           | 5     |
| OPEPAIAH | CF         |           | 5     |
| OPEPAIAM | D1         |           | 5     |
| OPEPAIAT | CF         |           | 4     |
| OPEPAIAY | C9         |           | 5     |
| OPEPPC   | D3         |           | 3     |
| OPEPPCD  | D7         |           | 5     |
| OPEPPCDT | D3         |           | 4     |
| OPEPPCH  | D9         |           | 5     |
| OPEPPCM  | DB         |           | 5     |
| OPEPPCT  | D9         |           | 4     |
| OPEPPCY  | D3         |           | 5     |
| OPEPSC   | DD         |           | 3     |
| OPEPSCD  | E1         |           | 5     |
| OPEPSCH  | E3         |           | 5     |
| OPEPSCM  | E5         |           | 5     |
| OPEPSCT  | DD         |           | 4     |
| OPEPSCY  | DD         |           | 5     |
| OPESPIA  | BF         |           | 3     |
| OPESPIAD | BF         |           | 4     |
| OPESPIAE | C3         |           | 5     |
| OPESPIAH | C5         |           | 5     |
| OPESPIAM | C7         |           | 5     |
| OPESPIAT | C5         |           | 4     |
| OPESPIAY | BF         |           | 5     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| OPETYPE  | 0          |           | 3     |
| OPEWSID  | 40         |           | 3     |
| OPEWSIDN | 40         |           | 4     |
| OPEWSIDS | 43         |           | 4     |

## OPI - Operator instruction

### Example

Name : DCLOPI

Function:

This segment declares an operator instruction record, physically located in EQQOIDS.

If the valid\_from key is blank and the valid\_to key is set to the highest value (all hexadecimal 'F'), the operator instruction is called 'permanent', else it is called 'temporary'.

| Offsets |      |           |     |            |                      |
|---------|------|-----------|-----|------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description          |
| 0       | (0)  | STRUCTURE | *   | OPI        |                      |
| 0       | (0)  | CHARACTER | 78  | OPIBODY    |                      |
| 0       | (0)  | CHARACTER | 28  | OPIKEY     |                      |
| 0       | (0)  | CHARACTER | 18  | OPIADOP    |                      |
| 0       | (0)  | CHARACTER | 16  | OPIADID    | APPLICATION NAME     |
| 16      | (10) | SIGNED    | 2   | OPIOPNO    | OPERATION NUMBER     |
| 18      | (12) | CHARACTER | 10  | OPIVALTO   | VALID TO DATE+TIME   |
| 18      | (12) | CHARACTER | 6   | OPIVALT1   | DATE                 |
| 24      | (18) | CHARACTER | 4   | OPIVALT2   | TIME                 |
| 28      | (1C) | CHARACTER | 4   | OPIEYE     | EYE CATCHER          |
| 32      | (20) | UNSIGNED  | 1   | OPIVERS    | VERSION NUMBER       |
| 33      | (21) | CHARACTER | 10  | OPIVALFR   | VALID FROM DATE+TIME |
| 33      | (21) | CHARACTER | 6   | OPIVALF1   | DATE                 |
| 39      | (27) | CHARACTER | 4   | OPIVALF2   | TIME                 |
| 43      | (2B) | CHARACTER | 4   | OPIWSID    | NOT USED             |



| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 47      | (2F) | CHARACTER | 8   | OPIOWNER   | LAST UPDATE USER            |
| 55      | (37) | CHARACTER | 10  | OPIUPDAT   | LAST UPDATE, DATE+TIME      |
| 55      | (37) | CHARACTER | 6   | OPIUPDT1   | DATE                        |
| 61      | (3D) | CHARACTER | 4   | OPIUPDT2   | TIME                        |
| 65      | (41) | CHARACTER | 1   | OIFLAGS    | FLAGS                       |
|         |      | 1... ..   |     | OPINAC     | DO NO CHECK AGAINST AD      |
|         |      | .1... ..  |     | OPIBEING   | UNDER CREATION              |
| 66      | (42) | CHARACTER | 2   | *          | FREE                        |
| 68      | (44) | CHARACTER | 8   | OPILOTS    | LAST UPDATE TIMESTAMP       |
| 76      | (4C) | SIGNED    | 2   | OPI LINES  | NUMBER OF LINES COMING      |
| 78      | (4E) | CHARACTER | 72  | OPITAB (*) | 1 LINE WITH OPERATOR INSTR. |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| OIFLAGS   | 41         |           | 3     |
| OPI       | 0          |           | 1     |
| OPIADID   | 0          |           | 5     |
| OPIADOP   | 0          |           | 4     |
| OPIBEING  | 41         | 40        | 4     |
| OPIBODY   | 0          |           | 2     |
| OPIEYE    | 1C         |           | 3     |
| OPIKEY    | 0          |           | 3     |
| OPI LINES | 4C         |           | 3     |
| OPILOTS   | 44         |           | 3     |
| OPINAC    | 41         | 80        | 4     |
| OPIOPNO   | 10         |           | 5     |
| OPIOWNER  | 2F         |           | 3     |
| OPITAB    | 4E         |           | 2     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| OPIUPDAT | 37         |           | 3     |
| OPIUPDT1 | 37         |           | 4     |
| OPIUPDT2 | 3D         |           | 4     |
| OPIVALFR | 21         |           | 3     |
| OPIVALF1 | 21         |           | 4     |
| OPIVALF2 | 27         |           | 4     |
| OPIVALT0 | 12         |           | 4     |
| OPIVALT1 | 12         |           | 5     |
| OPIVALT2 | 18         |           | 5     |
| OPIVERS  | 20         |           | 3     |
| OPIWSID  | 2B         |           | 3     |

## OPT - Subsystem options

### Example

Name : DCLOPT

Function:

This segment declares options and parameter values supplied to the subsystem through init statements.

| Offsets |     |           |     |            |                            |
|---------|-----|-----------|-----|------------|----------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                |
| 0       | (0) | STRUCTURE | 688 | OPT        | opcesa options block       |
| 0       | (0) | CHARACTER | 4   | OPTDESC    | block descriptor = 'OPT '  |
| 4       | (4) | CHARACTER | 2   | OPTVER     | block mapping version      |
| 6       | (6) | BITSTRING | 4   | OPTFLAGS   | yesno type options         |
|         |     | 1... .... |     | OPTHOST    | 1 this is an opc host      |
|         |     | .1.. .... |     | OPTSTBY    | 1 this is a standby system |
|         |     | ..1. .... |     | OPTNEC     | 1 start a nec task         |
|         |     | ...1 .... |     | OPTEWTR    | 1 start an event wtr       |
|         |     | .... 1... |     | OPTJCC     | 1 start a jcc task         |

| Offsets |     |           |     |            |                               |
|---------|-----|-----------|-----|------------|-------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                   |
|         |     | .... .1.. |     | OPTRCVY    | 1 start a recovery task       |
|         |     | .... .1.  |     | OPTJSUB    | 1 opc will submit jobs        |
|         |     | .... ...1 |     | OPTNPRT    | 1 don't compl prt ops         |
| 7       | (7) | 1... .... |     | OPTEVMS    | 1 create event statistics     |
|         |     | .1.. .... |     | OPTKSRX    | 1 keep excl resrc             |
|         |     | ..1. .... |     | OPTKSRS    | 1 keep shrd resrc             |
|         |     | ...1 .... |     | OPTOSUB    | 1 track only opcs submit jobs |
|         |     | .... 1... |     | OPTJOPT    | 1 track opcs submit others    |
|         |     | .... .1.. |     | OPTSBNO    | 1 no jobcard check            |
|         |     | .... .1.  |     | OPTSBOK    | 1 submit only ok jobs         |
|         |     | .... ...1 |     | OPTGSMS    | 1 measure gs requests         |
| 8       | (8) | 1... .... |     | OPTCPNEW   | 1 currplan(new) specified     |
|         |     | .1.. .... |     | OPTCPMS    | 1 create cp enq statistics    |
|         |     | ..1. .... |     | OPTAPPC    | 1 start an appc task          |
|         |     | ...1 .... |     | OPTDUAL    | 1 dual JT logging             |
|         |     | .... 1... |     | OPTRES     | 1 restartblank opr val        |
|         |     | .... .1.. |     | OPTIALLY   | 1 operiall(y)                 |
|         |     | .... .1.  |     | OPTDALLY   | 1 operdall(y)                 |
|         |     | .... ...1 |     | OPTSIM     | 1 simulate mode               |
| 9       | (9) | 1... .... |     | OPTSYSF    | 1 takeover if host sys fail   |
|         |     | .1.. .... |     | OPTHOSTF   | 1 takeover if host opc fail   |
|         |     | ..1. .... |     | OPTACCT    | 1 account is reqd in jobcd    |
|         |     | ...1 .... |     | OPTPGMR    | 1 prog nm is reqd in jobcd    |
|         |     | .... 1... |     | OPTDB2     | 1 db2 is used for model db    |
|         |     | .... .1.. |     | OPTRER     | 1 rerouteblank opr val        |
|         |     | .... .1.  |     | OPTSSXB    | 1 SSX build requested         |
|         |     | .... ...1 |     | OPTSSXBM   | 1 SSX merge requested         |

| Offsets |     |           |     |            |                                                                            |
|---------|-----|-----------|-----|------------|----------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                |
| 10      | (A) | BITSTRING | 2   | OPTFLAG2   | yesno type options                                                         |
|         |     | 1... .... |     | OPTSSCMP   | 1 load SSCM permanent                                                      |
|         |     | .1.. .... |     | OPTRODM    | 1 start a rodm task                                                        |
|         |     | ..1. .... |     | OPTDYNEV   | 1 dynadd res at event                                                      |
|         |     | ...1 .... |     | OPTDYSU    | 1 dynadd res ar submit                                                     |
|         |     | .... 1... |     | OPTAPDST   | 1 APPC dests exist                                                         |
|         |     | .... .1.. |     | OPTPLEX    | 1 PLEX configuration                                                       |
|         |     | .... .1.  |     | OPTSERVER  | 1 a Server                                                                 |
|         |     | .... ...1 |     | OPTWSMS    | 1 wsa stats onoff                                                          |
| 11      | (B) | 1... .... |     | OPTPROC    | 1 proc substitution ACJA                                                   |
|         |     | .1.. .... |     | OPTVFAIL   | 1 varsub fail ignore ACJA                                                  |
|         |     | ..1. .... |     | OPTFLTASK  | 1 RCLEANUP = YES D90C start FL and PSU D90A                                |
|         |     | ...1 .... |     | OPTSPIN    | 1 SPIN(YES) 0 SPIN(NO)                                                     |
|         |     | .... 1... |     | OPTARM     | SYSplex ARM request D44A                                                   |
|         |     | .... .1.. |     | OPTTPLGY   | topology is present d94a                                                   |
|         |     | .... .1.  |     | OPTXTMON   | Ext mon active(YN)                                                         |
|         |     | .... ...1 |     | OPTNGENS   | 1&colon.don't do gen. search                                               |
| 12      | (C) | CHARACTER | 1   | OPTONCOMPL | ONCOMPLETE - Y set to YES - N set to NO - R Reset to blank - do nothing    |
| 13      | (D) | CHARACTER | 1   | OPTDYNONCO | DYNONCOMPLETE - Y set to YES - N set to NO - R Reset to blank - do nothing |
| 14      | (E) | BITSTRING | 1   | OPTFLAG4   | additional flags                                                           |
|         |     | 11.. .... |     | OPTAUDCP   | AUDITCP statement                                                          |
|         |     | 1... .... |     | OPTCOND    | 1 log COND status change                                                   |
|         |     | .1.. .... |     | OPTCDEP    | 1 log CDEP status change                                                   |
|         |     | ..1. .... |     | OPTETTNEW  | 1 ETT dep from ETTYTCR1                                                    |
|         |     | ...1 .... |     | OPTCNDSUB  | 1 Cond S on submission                                                     |

| Offsets |      |           |     |            |                                                                                             |
|---------|------|-----------|-----|------------|---------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                 |
|         |      | .... 1... |     | OPTTASKUSR |                                                                                             |
|         |      | .... .1.. |     | OPTTRACKW  |                                                                                             |
|         |      | .... ..1. |     | OPTTRKA3J  |                                                                                             |
|         |      | .... ...1 |     | OPTOUTCOL  |                                                                                             |
| 15      | (F)  | BITSTRING | 1   | OPTFLAG6   |                                                                                             |
|         |      | 1... .... |     | OPTCSABIG  |                                                                                             |
|         |      | .1.. .... |     | OPTZCHRC   | on HIGHRC active forzCen                                                                    |
|         |      | ..1. .... |     | OPTBACKUP  | on BACKUP Controller                                                                        |
|         |      | ...1 .... |     | OPTSINFO   | on STEPINFO required                                                                        |
|         |      | .... 1111 |     | *          | reserved                                                                                    |
| 16      | (10) | UNSIGNED  | 2   | OPTX01SZ   | EXIT01 jcl size                                                                             |
| 18      | (12) | BITSTRING | 2   | OPTXITFL   | User exit flag. 1 call exit. Note: bit 1 is for exit 00. For new exits add a new bitstring. |
| 20      | (14) | SIGNED    | 4   | OPTBACK    | nmm backup frequency '-1' = auto bkp active                                                 |
| 24      | (18) | SIGNED    | 4   | OPTNRDR    | number of event readers                                                                     |
| 28      | (1C) | SIGNED    | 4   | OPTABNUM   | num no error retcodes                                                                       |
| 32      | (20) | SIGNED    | 4   | OPTARNUM   | num reset error retcodes                                                                    |
| 36      | (24) | SIGNED    | 4   | OPTHRCNR   | highest ok retcode                                                                          |
| 40      | (28) | SIGNED    | 4   | OPTMAXJS   | max js-file size '-1' = auto copy active                                                    |
| 44      | (2C) | SIGNED    | 4   | OPTSTME    | simulate end time                                                                           |
| 48      | (30) | SIGNED    | 4   | OPTSTMS    | simulate start time                                                                         |
| 52      | (34) | SIGNED    | 4   | OPTOFF_DLY | WS offline actions delay                                                                    |
| 56      | (38) | ADDRESS   | 4   | OPTJDESTP  | joblog dest parms                                                                           |
| 60      | (3C) | SIGNED    | 4   | OPTRSCONT  | contentiontime                                                                              |
| 64      | (40) | ADDRESS   | 4   | OPTAWSTB   | APPC WS table                                                                               |
| 68      | (44) | SIGNED    | 4   | OPTTCPPORT | local tcpip port                                                                            |

| Offsets |       |           |     |               |                                                         |
|---------|-------|-----------|-----|---------------|---------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)    | Description                                             |
| 72      | (48)  | CHARACTER | 8   | OPTTCPID      | local tcpip id                                          |
| 84      | (54)  | ADDRESS   | 4   | OPTABPTR      | address of no error table                               |
| 88      | (58)  | ADDRESS   | 4   | OPTARPTR      | address of reset err tbl                                |
| 92      | (5C)  | ADDRESS   | 4   | OPTDTPTR      | addr of destination tab                                 |
| 96      | (60)  | ADDRESS   | 4   | OPTSIDP       | addr of system id tab                                   |
| 100     | (64)  | ADDRESS   | 4   | OPTSRVSPTR    | to server names                                         |
| 104     | (68)  | CHARACTER | 8   | OPTNCFNM      | ncf application name                                    |
| 112     | (70)  | CHARACTER | 8   | OPTMIRRD      | remote standby destination                              |
| 120     | (78)  | CHARACTER | 8   | OPTJCCNM      | jcc init member name                                    |
| 128     | (80)  | CHARACTER | 8   | OPTWTRNM      | ewtr init member name                                   |
| 136     | (88)  | CHARACTER | 8   | OPTRDRNM (16) | erdr init member names                                  |
| 264     | (108) | CHARACTER | 8   | OPTXITNM (16) | user exit load module names note 1st entry is for exit0 |
| 392     | (188) | CHARACTER | 8   | OPTARNM       | ar init member name                                     |
| 400     | (190) | CHARACTER | 8   | OPTSSCMN      | sscm load module name                                   |
| 408     | (198) | CHARACTER | 8   | OPTGROUP      | xcf group name                                          |
| 416     | (1A0) | CHARACTER | 16  | OPTMEM        | xcf member name                                         |
| 432     | (1B0) | CHARACTER | 16  | OPTGTAB       | name of global jcl vartab                               |
| 448     | (1C0) | CHARACTER | 16  | OPTCALNM      | name of default calendar                                |
| 464     | (1D0) | BITSTRING | 1   | OPTAUDIT (16) | audit specifications                                    |
|         |       | 1... .... |     | OPTTRACK      | audit this resource                                     |
|         |       | .1.. .... |     | OPTREAD       | audit read accesses                                     |
|         |       | ..1. .... |     | OPTDATA       | log entire vsam record                                  |
| 480     | (1E0) | SIGNED    | 2   | OPTQLEN       | max queue length                                        |
| 482     | (1E2) | SIGNED    | 2   | OPTADSMF      | ad smoothing factor                                     |
| 484     | (1E4) | SIGNED    | 2   | OPTADLIM      | ad limit for feedback                                   |
| 486     | (1E6) | SIGNED    | 2   | OPTOPITM      | number days op inst is new                              |
| 488     | (1E8) | SIGNED    | 2   | OPTGSTASK     | number of gs tasks                                      |

| Offsets |       |           |     |               |                          |
|---------|-------|-----------|-----|---------------|--------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)    | Description              |
| 490     | (1EA) | SIGNED    | 2   | OPTPLAN       | default dp period start  |
| 492     | (1EC) | CHARACTER | 1   | OPTVSUB       | var substitution Y N S   |
| 493     | (1ED) | CHARACTER | 1   | OPTONODE      | outputnode F=final A=any |
| 494     | (1EE) | SIGNED    | 2   | OPTSUPOL      | suppresspolicy value     |
| 496     | (1F0) | SIGNED    | 2   | OPTSHPOL      | shutdownpolicy value     |
| 498     | (1F2) | CHARACTER | 1   | OPTSUPPL      | suppressaction char      |
| 499     | (1F3) | CHARACTER | 1   | OPTSFAIL      | subfailaction char       |
| 500     | (1F4) | SIGNED    | 2   | OPTJTLOG      | number of JTlogs         |
| 502     | (1F6) | SIGNED    | 2   | OPTOVERC      | PS overcomit             |
| 504     | (1F8) | SIGNED    | 2   | OPTPULSE      | Pulse rate               |
| 506     | (1FA) | SIGNED    | 2   | OPTTIMEOUT    | TCP timeout interval     |
| 508     | (1FC) | CHARACTER | 3   | OPTWSFAIL     | WS failure options       |
| 508     | (1FC) | CHARACTER | 1   | OPWSFAIL_SACT | restart option           |
| 509     | (1FD) | CHARACTER | 1   | OPWSFAIL_RACT | reroute option           |
| 510     | (1FE) | CHARACTER | 1   | OPWSFAIL_AACT | available option         |
| 511     | (1FF) | CHARACTER | 3   | OPTWSOFFL     | WS offline options       |
| 511     | (1FF) | CHARACTER | 1   | OPWSOFFL_SACT | restart option           |
| 512     | (200) | CHARACTER | 1   | OPWSOFFL_RACT | reroute option           |
| 513     | (201) | CHARACTER | 1   | OPWSOFFL_AACT | available option         |
| 514     | (202) | BITSTRING | 2   | OPTWO         | wto opts                 |
|         |       | 1... .... |     | OPTWOTE       | no task end wto          |
|         |       | .1.. .... |     | OPTWOER       | ended-in-error status    |
|         |       | ..1. .... |     | OPTWOLE       | late operation           |
|         |       | ...1 .... |     | OPTWODU       | too long duration        |
|         |       | .... 1... |     | OPTWOQX       | queue limit exceeded     |
|         |       | .... .1.. |     | OPTWORC       | resource contention      |
| 516     | (204) | BITSTRING | 2   | OPTAL         | netview generic alert    |

| Offsets |       |           |     |               |                           |
|---------|-------|-----------|-----|---------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)    | Description               |
|         |       | 1... .... |     | OPTALTE       | no task end alert         |
|         |       | .1.. .... |     | OPTALER       | ended-in-error status     |
|         |       | ..1. .... |     | OPTALLE       | late operation            |
|         |       | ...1 .... |     | OPTALDU       | too long duration         |
|         |       | .... 1... |     | OPTALQX       | queue limit exceeded      |
| 518     | (206) | BITSTRING | 2   | OPTML         | mlog write opts           |
|         |       | 1... .... |     | OPTMLTE       | no task end mlog write    |
|         |       | .1.. .... |     | OPTMLER       | ended-in-error status     |
|         |       | ..1. .... |     | OPTMLLE       | late operation            |
|         |       | ...1 .... |     | OPTMLDU       | too long duration         |
|         |       | .... 1... |     | OPTMLQX       | queue limit exceeded      |
|         |       | .... .1.. |     | OPTMLRC       | resource contention       |
| 520     | (208) | BITSTRING | 1   | OPTFLAGS5     | Cat Mgt flags deleted     |
|         |       | 1... .... |     | OPTOPSUMWS    | 1 Opsum data from WS      |
|         |       | .1.. .... |     | OPTBUFFERM    | 1 Buffer Pool permanent   |
|         |       | ..11 1111 |     | *             | free                      |
| 521     | (209) | CHARACTER | 1   | OPTBESTM      | est match A=ALL,F=RF,O=RO |
| 522     | (20A) | UNSIGNED  | 1   | OPTFLAG3      |                           |
|         |       | 1... .... |     | OPTGDGNS      | on GDG_NONST              |
|         |       | .1.. .... |     | OPTFTWJSUB    | 1 opc will submit jobs    |
|         |       | ..1. .... |     | OPTMHLDSF     | manual hold at submit fai |
|         |       | ...1 .... |     | OPTMONTBSM    | 1 TBSM external monitor   |
|         |       | .... 1... |     | OPTMONTEP     | 1 TEP external monitor    |
|         |       | .... .1.. |     | OPTCRITJOBS   | 1 activate dyn crit path  |
|         |       | .... ..1. |     | OPTRECCPCOMPL | 1 rec. critpaths on comp  |
|         |       | .... ...1 |     | OPTNOETRY     | NOERROR Trial cmd msg     |



| Offsets |       |           |     |                |                                                                         |
|---------|-------|-----------|-----|----------------|-------------------------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)     | Description                                                             |
| 523     | (20B) | CHARACTER | 1   | OPTTWSJBNM     | TWSJOBNAME val. in JTOPTS O<br>OCCNAME E EXTNAME X EXTNOCC J<br>JOBNAME |
| 524     | (20C) | SIGNED    | 4   | OPTGMTOF       | GMT offset                                                              |
| 528     | (210) | CHARACTER | 8   | OPTRODM_PARM   | rodm parm member name                                                   |
| 536     | (218) | CHARACTER | 1   | OPTUX001FA     | EQQUX001 fail action                                                    |
| 537     | (219) | CHARACTER | 1   | OPTOPINS       | OPINFOSCOPE I=In-pro ops A=All ops                                      |
| 538     | (21A) | SIGNED    | 2   | OPTRSPOL       | resource lookahead                                                      |
| 540     | (21C) | CHARACTER | 8   | OPTCODEP       | codepage                                                                |
| 548     | (224) | SIGNED    | 4   | OPTMAXOCCN     | maximum occ number                                                      |
| 552     | (228) | SIGNED    | 4   | OPTSTATIM      | statmsg time                                                            |
| 556     | (22C) | SIGNED    | 2   | OPTEVELIM      | evelim number                                                           |
| 558     | (22E) | CHARACTER | 1   | OPTSVFAILC (2) | array for savarfail                                                     |
| 560     | (230) | CHARACTER | 1   | OPTVFAILC (3)  | array of varfail values                                                 |
| 563     | (233) | 1... ..   |     | OPTXITXRES     | extended stat X option                                                  |
|         |       | .1... ..  |     | OPTSUPPENF     | SUPPRESSENF                                                             |
|         |       | ..1. .... |     | OPTSAMSGMLOG   | automation msg logging                                                  |
|         |       | ...1 .... |     | OPTSAMSGSLOG   | automation msg logging                                                  |
|         |       | .... 1... |     | OPTSVFAIL      | 1 varsub fail ignore                                                    |
|         |       | .... .1.. |     | OPTREMJCLDIR   | remove jcl directives                                                   |
|         |       | .... ..1. |     | OPTNOECHECK    | NOERROR consistency test                                                |
|         |       | .... ...1 |     | OPTNOEMSG      | NOERROR consistency msgs                                                |
| 564     | (234) | ADDRESS   | 4   | OPTFLPARM      | pointer to FLOPTS                                                       |
| 568     | (238) | CHARACTER | 10  | OPTWLM         |                                                                         |
|         |       | 1... ..   |     | OPTWLMRQ       | WLM Request                                                             |
|         |       | .111 .... |     | OPTWLMMODE     | WLM Mode                                                                |
|         |       | .... 1111 |     | OPTWLMPOLICY   | WLM Policy in Mode1                                                     |
| 569     | (239) | CHARACTER | 8   | OPTWLMHPCCLASS | Hi.Perf. WLM1 Class                                                     |

| Offsets |       |           |     |                 |                                                             |
|---------|-------|-----------|-----|-----------------|-------------------------------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)      | Description                                                 |
| 577     | (241) | UNSIGNED  | 1   | OPTWLMTHRESHOLD | WLM Smart Threshold                                         |
| 578     | (242) | CHARACTER | 1   | OPTSECHK        | A=all,N=no,O=operonly                                       |
| 579     | (243) | UNSIGNED  | 1   | OPTCPBPLIM      | CP Buffer Pool limit                                        |
| 580     | (244) | ADDRESS   | 4   | OPTRCL          | pointer to RCLOPTS                                          |
| 584     | (248) | CHARACTER | 8   | OPTTPLGSRV      | topology param member                                       |
| 592     | (250) | ADDRESS   | 4   | OPTJPLEXP       | address of JESPLEX system name list<br>(mapped by DCLJPLEX) |
| 596     | (254) | SIGNED    | 2   | OPTSYSPLID      | SYSplexID (default is 0)                                    |
| 598     | (256) | SIGNED    | 2   | OPTDLSMO        | deadline smoothing factor                                   |
| 600     | (258) | SIGNED    | 2   | OPTDLFDK        | deadline limit feedback                                     |
| 602     | (25A) | CHARACTER | 1   | *               | free                                                        |
| 603     | (25B) | UNSIGNED  | 1   | OPTCPDTLIM      | CP dataset limit                                            |
| 604     | (25C) | ADDRESS   | 4   | OPTMONO         | pointer to MONOPTS                                          |
| 608     | (260) | BITSTRING | 2   | OPTMONP         | MONPOL options                                              |
|         |       | 1... ..   |     | OPTMPER         | error job flag                                              |
|         |       | .1.. ..   |     | OPTMPCRT        | critical job flag                                           |
|         |       | ..1. .... |     | OPTMPCRP        | critical path job flag                                      |
|         |       | ...1 .... |     | OPTMPLAT        | late job flag                                               |
|         |       | .... 1... |     | OPTMPDUR        | long duration job flag                                      |
|         |       | .... .1.. |     | OPTMPMAN        | manual flag                                                 |
| 610     | (262) | BITSTRING | 2   | OPTMONAL        | TEP monalert                                                |
|         |       | 1... ..   |     | OPTMOER         | ended-in-error status                                       |
|         |       | .1.. ..   |     | OPTMOEOP        | tasks that ended in error                                   |
|         |       | ..1. .... |     | OPTMOLA         | late operation                                              |
|         |       | ...1 .... |     | OPTMODU         | too long duration                                           |
|         |       | .... 1... |     | OPTMOQX         | queue limit exceeded                                        |
|         |       | .... .1.. |     | OPTMOWLM        | WLM flag                                                    |
|         |       | .... ..1. |     | OPTMOSPE        | special resource time out                                   |

| Offsets |       |           |     |                  |                                   |
|---------|-------|-----------|-----|------------------|-----------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)       | Description                       |
|         |       | .... ...1 |     | OPTMOMSG         | messages monitored                |
| 611     | (263) | 1... .... |     | OPTMONOP         | monitored jobs                    |
|         |       | .1.. .... |     | OPTDEFPCG        | default codepage set              |
| 612     | (264) | CHARACTER | 8   | OPTMONCODE       | codepage for Monitor task         |
| 620     | (26C) | ADDRESS   | 4   | OPTTCPPTR        | addr to TCPIP area                |
| 624     | (270) | BITSTRING | 1   | NOERRFLG         | reserved                          |
|         |       | 1... .... |     | OPTNOMEMB        | reserved                          |
|         |       | .111 1111 |     | *                | reserved                          |
| 625     | (271) | BITSTRING | 1   | OPTFLAG1         |                                   |
|         |       | 1... .... |     | OPTCDEPSTP       | AUDITCP statement                 |
|         |       | .1.. .... |     | OPTUNEXPRC       | AUDITCP statement                 |
|         |       | ..1. .... |     | OPTITOM          | on ITOM(YES) jcl tailoring wished |
|         |       | ...1 1111 |     | *                |                                   |
| 626     | (272) | SIGNED    | 2   | OPTALEAC         |                                   |
| 628     | (274) | ADDRESS   | 4   | OPTPARWSTABLEPTR | parallel workstations             |
| 632     | (278) | ADDRESS   | 4   | OPTHHTPPTR       | addr to HTTPOPTS area             |
| 640     | (280) | SIGNED    | 2   | OPTALEMINDUR     |                                   |
| 642     | (282) | CHARACTER | 8   | OPTOCSTC         |                                   |
| 650     | (28A) | CHARACTER | 2   | *                |                                   |
| 652     | (28C) | SIGNED    | 4   | OPTZCHRCDEF      | highrc default for zCen           |
| 656     | (290) | CHARACTER | 8   | OPTOSLCNM        | oslc init member name             |
| 664     | (298) | ADDRESS   | 4   | OPTOSLCP         | pointer to OSLC opts              |
| 668     | (29C) | SIGNED    | 4   | OPTJOBS          |                                   |
| 672     | (2A0) | ADDRESS   | 4   | OPTBKPTPTR       | pointer to BKPT opts              |
| 676     | (2A4) | CHARACTER | 12  | *                | reserved                          |
| 688     | (2B0) | CHARACTER |     | OPTEND           | end of opt                        |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| NOERRFLG     | 270        |           | 2     |
| OPT          | 0          |           | 1     |
| OPTABNUM     | 1C         |           | 2     |
| OPTABPTR     | 54         |           | 2     |
| OPTACCT      | 9          | 20        | 3     |
| OPTADLIM     | 1E4        |           | 2     |
| OPTADSMF     | 1E2        |           | 2     |
| OPTAL        | 204        |           | 2     |
| OPTALDU      | 204        | 10        | 3     |
| OPTALEAC     | 272        |           | 2     |
| OPTALEMINDUR | 280        |           | 2     |
| OPTALER      | 204        | 40        | 3     |
| OPTALLE      | 204        | 20        | 3     |
| OPTALQX      | 204        | 08        | 3     |
| OPTALTE      | 204        | 80        | 3     |
| OPTAPDST     | A          | 08        | 3     |
| OPTAPPC      | 8          | 20        | 3     |
| OPTARM       | B          | 08        | 3     |
| OPTARNM      | 188        |           | 2     |
| OPTARNUM     | 20         |           | 2     |
| OPTARPTR     | 58         |           | 2     |
| OPTAUDCP     | E          | C0        | 3     |
| OPTAUDIT     | 1D0        |           | 2     |
| OPTAWSTB     | 40         |           | 2     |
| OPTBACK      | 14         |           | 2     |
| OPTBACKUP    | F          | 20        | 3     |
| OPTBESTM     | 209        |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| OPTBKPTPTR  | 2A0        |           | 2     |
| OPTBUFPERM  | 208        | 40        | 3     |
| OPTCALNM    | 1C0        |           | 2     |
| OPTCDEP     | E          | 40        | 4     |
| OPTCDEPSTP  | 271        | 80        | 3     |
| OPTCNDSUB   | E          | 10        | 3     |
| OPTCODEP    | 21C        |           | 2     |
| OPTCOND     | E          | 80        | 4     |
| OPTCPBPLIM  | 243        |           | 2     |
| OPTCPDTLIM  | 25B        |           | 2     |
| OPTCPMS     | 8          | 40        | 3     |
| OPTCPNEW    | 8          | 80        | 3     |
| OPTCRITJOBS | 20A        | 04        | 3     |
| OPTCSABIG   | F          | 80        | 3     |
| OPTDALLY    | 8          | 02        | 3     |
| OPTDATA     | 1D0        | 20        | 3     |
| OPTDB2      | 9          | 08        | 3     |
| OPTDEFCPG   | 263        | 40        | 3     |
| OPTDESC     | 0          |           | 2     |
| OPTDLFDK    | 258        |           | 2     |
| OPTDLSMO    | 256        |           | 2     |
| OPTDTPTR    | 5C         |           | 2     |
| OPTDUAL     | 8          | 10        | 3     |
| OPTDYNEV    | A          | 20        | 3     |
| OPTDYNONCO  | D          |           | 2     |
| OPTDYSU     | A          | 10        | 3     |
| OPTEND      | 2B0        |           | 2     |
| OPTETTNEW   | E          | 20        | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| OPTEVELIM   | 22C        |           | 2     |
| OPTEVMS     | 7          | 80        | 3     |
| OPTEWTR     | 6          | 10        | 3     |
| OPTEXTMON   | B          | 02        | 3     |
| OPTFLAGS    | 6          |           | 2     |
| OPTFLAGS5   | 208        |           | 2     |
| OPTFLAG1    | 271        |           | 2     |
| OPTFLAG2    | A          |           | 2     |
| OPTFLAG3    | 20A        |           | 2     |
| OPTFLAG4    | E          |           | 2     |
| OPTFLAG6    | F          |           | 2     |
| OPTFLPARM   | 234        |           | 2     |
| OPTFLTASK   | B          | 20        | 3     |
| OPTFTWJSUB  | 20A        | 40        | 3     |
| OPTGDGNS    | 20A        | 80        | 3     |
| OPTGMTOF    | 20C        |           | 2     |
| OPTGROUP    | 198        |           | 2     |
| OPTGSMS     | 7          | 01        | 3     |
| OPTGSTASK   | 1E8        |           | 2     |
| OPTGTAB     | 1B0        |           | 2     |
| OPTHOST     | 6          | 80        | 3     |
| OPTHOSTF    | 9          | 40        | 3     |
| OPTHRCNR    | 24         |           | 2     |
| OPTHHTTPPTR | 278        |           | 2     |
| OPTIALLY    | 8          | 04        | 3     |
| OPTITOM     | 271        | 20        | 3     |
| OPTJCC      | 6          | 08        | 3     |
| OPTJCCNM    | 78         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| OPTJDESTP  | 38         |           | 2     |
| OPTJOBS    | 29C        |           | 2     |
| OPTJOPT    | 7          | 08        | 3     |
| OPTJPLEXP  | 250        |           | 2     |
| OPTJSUB    | 6          | 02        | 3     |
| OPTJTLOG   | 1F4        |           | 2     |
| OPTKSRS    | 7          | 20        | 3     |
| OPTKSRX    | 7          | 40        | 3     |
| OPTMAXJS   | 28         |           | 2     |
| OPTMAXOCCN | 224        |           | 2     |
| OPTMEM     | 1A0        |           | 2     |
| OPTMHISTR  | 27C        |           | 2     |
| OPTMHLDSF  | 20A        | 20        | 3     |
| OPTMIRRD   | 70         |           | 2     |
| OPTML      | 206        |           | 2     |
| OPTMLDU    | 206        | 10        | 3     |
| OPTMLER    | 206        | 40        | 3     |
| OPTMLLE    | 206        | 20        | 3     |
| OPTMLQX    | 206        | 08        | 3     |
| OPTMLRC    | 206        | 04        | 3     |
| OPTMLTE    | 206        | 80        | 3     |
| OPTMODU    | 262        | 10        | 3     |
| OPTMOEOP   | 262        | 40        | 3     |
| OPTMOER    | 262        | 80        | 3     |
| OPTMOLA    | 262        | 20        | 3     |
| OPTMOMSG   | 262        | 01        | 3     |
| OPTMONAL   | 262        |           | 2     |
| OPTMONCODE | 264        |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| OPTMONO     | 25C        |           | 2     |
| OPTMONOP    | 263        | 80        | 3     |
| OPTMONP     | 260        |           | 2     |
| OPTMONTBSM  | 20A        | 10        | 3     |
| OPTMONTEP   | 20A        | 08        | 3     |
| OPTMOQX     | 262        | 08        | 3     |
| OPTMOSPE    | 262        | 02        | 3     |
| OPTMOWLM    | 262        | 04        | 3     |
| OPTMPCRP    | 260        | 20        | 3     |
| OPTMPCRT    | 260        | 40        | 3     |
| OPTMPDUR    | 260        | 08        | 3     |
| OPTMPER     | 260        | 80        | 3     |
| OPTMPLAT    | 260        | 10        | 3     |
| OPTMPMAN    | 260        | 04        | 3     |
| OPTNCFNM    | 68         |           | 2     |
| OPTNEC      | 6          | 20        | 3     |
| OPTNGENS    | B          | 01        | 3     |
| OPTNOECHECK | 233        | 02        | 2     |
| OPTNOEMSG   | 233        | 01        | 2     |
| OPTNOETRY   | 20A        | 01        | 3     |
| OPTNOMEMB   | 270        | 80        | 3     |
| OPTNPRT     | 6          | 01        | 3     |
| OPTNRDR     | 18         |           | 2     |
| OPTOCSTC    | 282        |           | 2     |
| OPTOFF_DLY  | 34         |           | 2     |
| OPTONCOMPL  | C          |           | 2     |
| OPTONODE    | 1ED        |           | 2     |
| OPTOPINS    | 219        |           | 2     |



| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| OPTOPITM         | 1E6        |           | 2     |
| OPTOPSUMWS       | 208        | 80        | 3     |
| OPTOSLCNM        | 290        |           | 2     |
| OPTOSLCP         | 298        |           | 2     |
| OPTOSUB          | 7          | 10        | 3     |
| OPTOUTCOL        | E          | 01        | 3     |
| OPTOVERC         | 1F6        |           | 2     |
| OPTPARWSTABLEPTR | 274        |           | 2     |
| OPTPGMR          | 9          | 10        | 3     |
| OPTPLAN          | 1EA        |           | 2     |
| OPTPLEX          | A          | 04        | 3     |
| OPTPROC          | B          | 80        | 3     |
| OPTPULSE         | 1F8        |           | 2     |
| OPTQLEN          | 1E0        |           | 2     |
| OPTRCL           | 244        |           | 2     |
| OPTRCVY          | 6          | 04        | 3     |
| OPTRDRNM         | 88         |           | 2     |
| OPTREAD          | 1D0        | 40        | 3     |
| OPTRECCPCOMPL    | 20A        | 02        | 3     |
| OPTREMJCLDIR     | 233        | 04        | 2     |
| OPTRER           | 9          | 04        | 3     |
| OPTRES           | 8          | 08        | 3     |
| OPTRODM          | A          | 40        | 3     |
| OPTRODM_PARM     | 210        |           | 2     |
| OPTRSCONT        | 3C         |           | 2     |
| OPTRSPOL         | 21A        |           | 2     |
| OPTSAMSGMLOG     | 233        | 20        | 2     |
| OPTSAMSGSLOG     | 233        | 10        | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| OPTSBNO    | 7          | 04        | 3     |
| OPTSBOK    | 7          | 02        | 3     |
| OPTSECHK   | 242        |           | 2     |
| OPTSERVER  | A          | 02        | 3     |
| OPTSFAIL   | 1F3        |           | 2     |
| OPTSHPOL   | 1F0        |           | 2     |
| OPTSIDP    | 60         |           | 2     |
| OPTSIM     | 8          | 01        | 3     |
| OPTSINFO   | F          | 10        | 3     |
| OPTSPIN    | B          | 10        | 3     |
| OPTSRVSPTR | 64         |           | 2     |
| OPTSSCMN   | 190        |           | 2     |
| OPTSSCMP   | A          | 80        | 3     |
| OPTSSXB    | 9          | 02        | 3     |
| OPTSSXBM   | 9          | 01        | 3     |
| OPTSTATIM  | 228        |           | 2     |
| OPTSTBY    | 6          | 40        | 3     |
| OPTSTME    | 2C         |           | 2     |
| OPTSTMS    | 30         |           | 2     |
| OPTSUPOL   | 1EE        |           | 2     |
| OPTSUPPENF | 233        | 40        | 2     |
| OPTSUPPL   | 1F2        |           | 2     |
| OPTSVFAIL  | 233        | 08        | 2     |
| OPTSVFAILC | 22E        |           | 2     |
| OPTSYSF    | 9          | 80        | 3     |
| OPTSYSPLID | 254        |           | 2     |
| OPTTASKUSR | E          | 08        | 3     |
| OPTTCPID   | 48         |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| OPTTCPPORT      | 44         |           | 2     |
| OPTTCPPTR       | 26C        |           | 2     |
| OPTTIMEOUT      | 1FA        |           | 2     |
| OPTTPLGSRV      | 248        |           | 2     |
| OPTTPLGY        | B          | 04        | 3     |
| OPTTRACK        | 1D0        | 80        | 3     |
| OPTTRACKW       | E          | 04        | 3     |
| OPTTRKA3J       | E          | 02        | 3     |
| OPTTWSJBNM      | 20B        |           | 2     |
| OPTUNEXPRC      | 271        | 40        | 3     |
| OPTUX001FA      | 218        |           | 2     |
| OPTVER          | 4          |           | 2     |
| OPTVFAIL        | B          | 40        | 3     |
| OPTVFAILC       | 230        |           | 2     |
| OPTVSUB         | 1EC        |           | 2     |
| OPTWLM          | 238        |           | 2     |
| OPTWLMHPCLASS   | 239        |           | 3     |
| OPTWLMMODE      | 238        | 70        | 3     |
| OPTWLMPOLICY    | 238        | 0F        | 3     |
| OPTWLMRQ        | 238        | 80        | 3     |
| OPTWLMTHRESHOLD | 241        |           | 3     |
| OPTWO           | 202        |           | 2     |
| OPTWODU         | 202        | 10        | 3     |
| OPTWOER         | 202        | 40        | 3     |
| OPTWOLE         | 202        | 20        | 3     |
| OPTWOQX         | 202        | 08        | 3     |
| OPTWORC         | 202        | 04        | 3     |
| OPTWOTE         | 202        | 80        | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| OPTWSFAIL     | 1FC        |           | 2     |
| OPTWSMS       | A          | 01        | 3     |
| OPTWSOFFL     | 1FF        |           | 2     |
| OPTWTRNM      | 80         |           | 2     |
| OPTXITFL      | 12         |           | 2     |
| OPTXITNM      | 108        |           | 2     |
| OPTXITXRES    | 233        | 80        | 2     |
| OPTX01SZ      | 10         |           | 2     |
| OPTZCHRC      | F          | 40        | 3     |
| OPTZCHRCDEF   | 28C        |           | 2     |
| OPWSFAIL_AACT | 1FE        |           | 3     |
| OPWSFAIL_RACT | 1FD        |           | 3     |
| OPWSFAIL_SACT | 1FC        |           | 3     |
| OPWSOFFL_AACT | 201        |           | 3     |
| OPWSOFFL_RACT | 200        |           | 3     |
| OPWSOFFL_SACT | 1FF        |           | 3     |

## OSLC - Integration information

### Example

Name : DCLOSLC

Function:

This segment declares options and parameter values used for the integration with OSLC software.

| Offsets |     |           |     |            |                              |
|---------|-----|-----------|-----|------------|------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                  |
| 0       | (0) | STRUCTURE | 128 | oslopts    | OSLC integration information |
| 0       | (0) | CHARACTER | 4   | oslceye    | eye catcher 'OSLC'           |
| 4       | (4) | CHARACTER | 2   | oslccver   | version                      |
| 6       | (6) | CHARACTER | 1   | oslcpolicy | policy A   M   C             |
| 7       | (7) | CHARACTER | 1   | oslcssl    | use SSL for the ticket Y   N |

| Offsets |      |           |     |            |                              |
|---------|------|-----------|-----|------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                  |
| 8       | (8)  | CHARACTER | 1   | oslcusrf   | use user fields for template |
| 9       | (9)  | CHARACTER | 1   | *          | reserved                     |
| 10      | (A)  | SIGNED    | 2   | oslcprio   | priority                     |
| 12      | (C)  | ADDRESS   | 4   | oslcuip    | ptr to URI                   |
| 16      | (10) | SIGNED    | 4   | oslcuirl   | URI length                   |
| 20      | (14) | ADDRESS   | 4   | oslcusrp   | ptr to user                  |
| 24      | (18) | SIGNED    | 4   | oslcusrl   | user length                  |
| 28      | (1C) | ADDRESS   | 4   | oslcpwdp   | ptr to password              |
| 32      | (20) | SIGNED    | 4   | oslcpwdl   | pwd length                   |
| 36      | (24) | CHARACTER | 56  | oslchost   | hostname from URI            |
| 92      | (5C) | SIGNED    | 4   | oslcport   | port from URI                |
| 96      | (60) | ADDRESS   | 4   | oslcdescp  | ptr to user description      |
| 100     | (64) | SIGNED    | 4   | oslcdescl  | user description length      |
| 104     | (68) | ADDRESS   | 4   | oslcturip  | ptr to DWC URI               |
| 108     | (6C) | SIGNED    | 4   | oslcturil  | DWC URI length               |
| 112     | (70) | CHARACTER | 16  | *          | reserved                     |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| oslcver    | 4          |           | 2     |
| oslcdescl  | 64         |           | 2     |
| oslcdescp  | 60         |           | 2     |
| oslcye     | 0          |           | 2     |
| oslchost   | 24         |           | 2     |
| oslcpts    | 0          |           | 1     |
| oslcpolicy | 6          |           | 2     |
| oslcport   | 5C         |           | 2     |
| oslcprio   | A          |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| oslcpwdl  | 20         |           | 2     |
| oslcpwdp  | 1C         |           | 2     |
| oslcssl   | 7          |           | 2     |
| oslcturil | 6C         |           | 2     |
| oslcturip | 68         |           | 2     |
| oslcuril  | 10         |           | 2     |
| oslcurip  | C          |           | 2     |
| oslcusrf  | 8          |           | 2     |
| oslcusrl  | 18         |           | 2     |
| oslcusrp  | 14         |           | 2     |

## PER - Period layout

### Example

Name : DCLPER

Function:

This segment declares a period definition, physically located in the workstation description database (EQQWSDS)

| Offsets |     |           |     |            |                            |
|---------|-----|-----------|-----|------------|----------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                |
| 0       | (0) | STRUCTURE | *   | PERREC     | PERIOD LAYOUT              |
| 0       | (0) | CHARACTER | 94  | PERFIX     | FIXED PART OF RECORD       |
| 0       | (0) | CHARACTER | 2   | *          | RESERVED BY IO-ROUTINES    |
| 2       | (2) | CHARACTER | 8   | PERKEY     |                            |
| 2       | (2) | CHARACTER | 8   | PERIOD     | PERIOD ID =====KEY         |
| 10      | (A) | UNSIGNED  | 1   | PERVERS    | VERSION OF RECORD NUM=NEW  |
| 11      | (B) | 1... ..   |     | PERFROMRG  | on from an RG              |
|         |     | .1.. .... |     | PERMULTI   | on RG multi instance       |
|         |     | ..11 1111 |     | *          | RESERVED                   |
| 12      | (C) | SIGNED    | 2   | PERINTVL   | INTERVAL OF CYCLIC ORIGINS |

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 14      | (E)  | CHARACTER | 1   | PERTYPE    | CYCLICNONCYCLIC TYPE       |
| 15      | (F)  | CHARACTER | 30  | PERDESC    | DESCRIPTION OF PERIOD      |
| 45      | (2D) | CHARACTER | 8   | PERUSER    | ID OF USER LAST CHANGE     |
| 53      | (35) | CHARACTER | 6   | PERDATE    | DATE FOR LAST CHANGE       |
| 59      | (3B) | CHARACTER | 4   | PERTIME    | TIME FOR LAST CHANGE, HHMM |
| 63      | (3F) | CHARACTER | 1   | *          | free                       |
| 64      | (40) | ADDRESS   | 4   | PERRGTAB   | RG table                   |
| 68      | (44) | CHARACTER | 8   | perluts    | last update timestamp      |
| 76      | (4C) | CHARACTER | 16  | perjvt     | jcl variable table id      |
| 92      | (5C) | SIGNED    | 2   | PERORGS    | ORIGIN DATES IN PERIOD     |
| 94      | (5E) | CHARACTER | 12  | PERVAR (*) | VARIABLE PART OF REC       |
| 94      | (5E) | CHARACTER | 6   | PERORIG    | ORIGIN(=START)DATE INT     |
| 100     | (64) | CHARACTER | 6   | PERIVLEND  | END DATE OF INTERVAL       |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| PERDATE   | 35         |           | 3     |
| PERDESC   | F          |           | 3     |
| PERFIX    | 0          |           | 2     |
| PERFROMRG | B          | 80        | 3     |
| PERINTVL  | C          |           | 3     |
| PERIOD    | 2          |           | 4     |
| PERIVLEND | 64         |           | 3     |
| perjvt    | 4C         |           | 3     |
| PERKEY    | 2          |           | 3     |
| perluts   | 44         |           | 3     |
| PERMULTI  | B          | 40        | 3     |
| PERORGS   | 5C         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| PERORIG  | 5E         |           | 3     |
| PERREC   | 0          |           | 1     |
| PERRGTAB | 40         |           | 3     |
| PERTIME  | 3B         |           | 3     |
| PERTYPE  | E          |           | 3     |
| PERUSER  | 2D         |           | 3     |
| PERVAR   | 5E         |           | 2     |
| PERVERS  | A          |           | 3     |

## RCLOP - Restart and clean up options record

### Example

Name : DCLRCLOP

Function:

This segment declares the layout of the restart and clean up options record.

| Offsets |      |           |     |               |                                                                             |
|---------|------|-----------|-----|---------------|-----------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                                                 |
| 0       | (0)  | STRUCTURE | 116 | RCLOP         | RCLOPTS                                                                     |
| 0       | (0)  | CHARACTER | 4   | RCO_EYE       | EYE CATCHER                                                                 |
| 4       | (4)  | SIGNED    | 4   | RCO_SP        | SUBPOOL USE BY STORAGE MACRO                                                |
| 8       | (8)  | CHARACTER | 8   | RCO_PROTDSMBR | DSNPROT: MEMBER NAME CONTAINING THE PROTECTED DSN LIST                      |
| 16      | (10) | ADDRESS   | 4   | RCO_PROTDSNP  | POINTER TO PROTECTED DSN LIST                                               |
| 20      | (14) | CHARACTER | 8   | RCO_PROTDDMBR | DDPROT: MEMBER NAME CONTAINING THE PROTECTED DD LIST                        |
| 28      | (1C) | ADDRESS   | 4   | RCO_PROTDDNP  | POINTER TO PROTECTED DD LIST                                                |
| 32      | (20) | ADDRESS   | 4   | RCO_NORESTP   | DDNOREST: POINTER TO THE LIST OF DDNAMES THAT MAKE THE STEP NON-RESTARTABLE |



| Offsets |      |           |     |                |                                                                                  |
|---------|------|-----------|-----|----------------|----------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                                                      |
| 36      | (24) | ADDRESS   | 4   | RCO_NEVEXP     | DDNEVER: POINTER TO THE LIST OF DDNAMES THAT MAKE THE STEP NEVER EXECUTABLE      |
| 40      | (28) | ADDRESS   | 4   | RCO_ALWAYS     | DDALWAYS: POINTER TO THE LIST OF DDNAMES THAT MAKE THE STEP ALWAYS RE-EXECUTABLE |
| 44      | (2C) | CHARACTER | 8   | RCO_DSDEST     | DSTDEST: DESTINATION                                                             |
| 52      | (34) | CHARACTER | 5   | RCO_CLJOBNA    | CLNJOBNM: PREFIX TO BE USED TO GENERATE THE NAME OF THE CLEAN UP JOB             |
| 57      | (39) | CHARACTER | 1   | RCO_USERSYS    | USERSYS: HANDLE USER SYSOUT FLAG                                                 |
| 58      | (3A) | CHARACTER | 1   | RCO_RMMACTIVE  | RMM: Y/N RMM ACTIVE                                                              |
| 59      | (3B) | CHARACTER | 1   | RCO_STEPRESchk | STEPRESCHK<br>YES (default)<br>NO                                                |
| 60      | (3C) | ADDRESS   | 4   | RCO_SAVPROTDD  | POINTER TO DD PROTLIST (MAJOR SHOULD FREE)                                       |
| 64      | (40) | ADDRESS   | 4   | RCO_SAVPROTDS  | POINTER TO DS PROTLIST (MAJOR SHOULD FREE)                                       |
| 68      | (44) | ADDRESS   | 4   | RCO_JCCCLTAB   | POINTER TO JES CLASS TAB                                                         |
| 72      | (48) | SIGNED    | 4   | *              | RESERVED                                                                         |
| 76      | (4C) | CHARACTER | 40  | RCO_JOBINFO    | WHAT FOLLOWS JOB IN JOBCARD                                                      |

| Offsets |      |           |     |                |                              |
|---------|------|-----------|-----|----------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                  |
| 0       | (0)  | STRUCTURE | 100 | RCO_EXTRA      | EXTRA AREA                   |
| 0       | (0)  | CHARACTER | 44  | RCO_STEPLIB    | EQQCLEAR STEPLIB             |
| 44      | (2C) | CHARACTER | 8   | RCO_SKIPMEM    | SKIPINCLULDE MEMBER NAME     |
| 52      | (34) | ADDRESS   | 4   | RCO_SKIPMEMP   | POINTER TO SKIP INCLUDE LIST |
| 56      | (38) | CHARACTER | 1   | RCO_IMMLOGIC   | B = BEST, A = AR STEP        |
| 57      | (39) | CHARACTER | 1   | RCO_GDGSIMAUTO | Y/N                          |

| Offsets |      |           |     |               |                                       |
|---------|------|-----------|-----|---------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                           |
| 58      | (3A) | CHARACTER | 8   | RCO_DYMMYLAST | DUMMY LAST STEP                       |
| 66      | (42) | CHARACTER | 1   | RCO_GDGPROT   | GDG PROTECTION LOCK                   |
| 67      | (43) | CHARACTER | 1   | RCO_JLOG      | E = ON ERROR, D = ON DEMAND (DEFAULT) |
| 68      | (44) | CHARACTER | 1   | RCO_JOPI      | E = ON ERROR, D = ON DEMAND (DEFAULT) |
| 69      | (45) | CHARACTER | 31  | *             | FREE                                  |

| Offsets |     |           |     |                |                         |
|---------|-----|-----------|-----|----------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description             |
| 0       | (0) | STRUCTURE | *   | RCO_SKIPEL     | SKIPINCL NAME LIST      |
| 0       | (0) | CHARACTER | 10  | RCO_SKIPFIX    | FIXED PART              |
| 0       | (0) | CHARACTER | 4   | RCO_SKIPEYE    | EYE CATCHER = RSKI      |
| 4       | (4) | SIGNED    | 4   | RCO_SKIPTSZ    | TOTAL SIZE OF AREA      |
| 8       | (8) | SIGNED    | 2   | RCO_SKIPCTR    | COUNT OF ARRAY ELEMENTS |
| 10      | (A) | CHARACTER | 8   | RCO_SKIPVAR(*) | VARIABLE PART           |
| 10      | (A) | CHARACTER | 8   | RCO_SKIPNAME   | PROTECTED DSNAME        |

| Offsets |     |           |     |                |                         |
|---------|-----|-----------|-----|----------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description             |
| 0       | (0) | STRUCTURE | *   | RCO_PROTDSN    | PROTECTED DSN LIST      |
| 0       | (0) | CHARACTER | 10  | RCO_PRDSFIX    | FIXED PART              |
| 0       | (0) | CHARACTER | 4   | RCO_PRDSEYE    | EYE CATCHER             |
| 4       | (4) | SIGNED    | 4   | RCO_PRDSTSZ    | TOTAL SIZE OF AREA      |
| 8       | (8) | SIGNED    | 2   | RCO_PRDSCTR    | COUNT OF ARRAY ELEMENTS |
| 10      | (A) | CHARACTER | 44  | RCO_PRDSVAR(*) | VARIABLE PART           |
| 10      | (A) | CHARACTER | 44  | RCO_PRDSNAME   | PROTECTED DSNAME        |

| Offsets |     |           |     |                |                         |
|---------|-----|-----------|-----|----------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description             |
| 0       | (0) | STRUCTURE | *   | RCO_PROTDDN    | PROTECTED DDN LIST      |
| 0       | (0) | CHARACTER | 10  | RCO_PRDDFIX    | FIXED PART              |
| 0       | (0) | CHARACTER | 4   | RCO_PRDDEYE    | EYE CATCHER             |
| 4       | (4) | SIGNED    | 4   | RCO_PRDDTSZ    | TOTAL SIZE OF AREA      |
| 8       | (8) | SIGNED    | 2   | RCO_PRDDCTR    | COUNT OF ARRAY ELEMENTS |
| 10      | (A) | CHARACTER | 8   | RCO_PRDDVAR(*) | VARIABLE PART           |
| 10      | (A) | CHARACTER | 8   | RCO_PRDDNAME   | PROTECTED DDNAME        |

| Offsets |     |           |     |                |                                                                   |
|---------|-----|-----------|-----|----------------|-------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description                                                       |
| 0       | (0) | STRUCTURE | *   | RCO_NOREST     | POINTER TO THE LIST OF DDNAMES THAT MAKE THE STEP NON-RESTARTABLE |
| 0       | (0) | CHARACTER | 10  | RCO_NORSFIX    | FIXED PART                                                        |
| 0       | (0) | CHARACTER | 4   | RCO_NORSEYE    | EYE CATCHER                                                       |
| 4       | (4) | SIGNED    | 4   | RCO_NORSTSZ    | TOTAL SIZE OF AREA                                                |
| 8       | (8) | SIGNED    | 2   | RCO_NORSCTR    | COUNT OF ARRAY ELEMENTS                                           |
| 10      | (A) | CHARACTER | 8   | RCO_NORSVAR(*) | VARIABLE PART                                                     |
| 10      | (A) | CHARACTER | 8   | RCO_NORSDDN    | DDNAME                                                            |

| Offsets |     |           |     |                 |                                                                    |
|---------|-----|-----------|-----|-----------------|--------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)      | Description                                                        |
| 0       | (0) | STRUCTURE | *   | RCO_NEVEX       | POINTER TO THE LIST OF DDNAMES THAT MAKE THE STEP NEVER EXECUTABLE |
| 0       | (0) | CHARACTER | 10  | RCO_NEVEXFIX    | FIXED PART                                                         |
| 0       | (0) | CHARACTER | 4   | RCO_NEVEXEYE    | EYE CATCHER                                                        |
| 4       | (4) | SIGNED    | 4   | RCO_NEVEXTSZ    | TOTAL SIZE OF AREA                                                 |
| 8       | (8) | SIGNED    | 2   | RCO_NEVEXCTR    | COUNT OF ARRAY ELEMENTS                                            |
| 10      | (A) | CHARACTER | 8   | RCO_NEVEXVAR(*) | VARIABLE PART                                                      |

| Offsets |     |           |     |              |             |
|---------|-----|-----------|-----|--------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim)   | Description |
| 10      | (A) | CHARACTER | 8   | RCO_NEVEXDDN | DDNAME      |

| Offsets |     |           |     |                |                                                                        |
|---------|-----|-----------|-----|----------------|------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)     | Description                                                            |
| 0       | (0) | STRUCTURE | *   | RCO_ALWAYS     | POINTER TO THE LIST OF DDNAMES THAT MAKE THE STEP ALWAYS RE-EXECUTABLE |
| 0       | (0) | CHARACTER | 10  | RCO_ALWYFIX    | FIXED PART                                                             |
| 0       | (0) | CHARACTER | 4   | RCO_ALWYEYE    | EYE CATCHER                                                            |
| 4       | (4) | SIGNED    | 4   | RCO_ALWYTSZ    | TOTAL SIZE OF AREA                                                     |
| 8       | (8) | SIGNED    | 2   | RCO_ALWYCTR    | COUNT OF ARRAY ELEMENTS                                                |
| 10      | (A) | CHARACTER | 8   | RCO_ALWYVAR(*) | VARIABLE PART                                                          |
| 10      | (A) | CHARACTER | 8   | RCO_ALWYDDN    | DDNAME                                                                 |

| Offsets |      |           |     |                |                                                |
|---------|------|-----------|-----|----------------|------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                                    |
| 0       | (0)  | STRUCTURE | *   | RCO_JESDST     | POINTER TO THE LIST OF DESTINATIONS AND JES CL |
| 0       | (0)  | CHARACTER | 16  | RCO_CLTABLE    | COMMON PART                                    |
| 0       | (0)  | SIGNED    | 4   | RCO_LISTCNT    | COUNTER OF TABLE ENTRIES                       |
| 4       | (4)  | SIGNED    | 4   | RCO_TABLEN     | LENGTH OF THE TABLE                            |
| 8       | (8)  | CHARACTER | 8   | *              | RESERVED                                       |
| 16      | (10) | CHARACTER | 16  | RCO_CLASTAB(*) | CLASS VAR TABLE                                |
| 16      | (10) | CHARACTER | 8   | RCO_TRKDEST    | TRACKER DESTINATION                            |
| 24      | (18) | CHARACTER | 1   | RCO_JESCLAS    | JES CLASS FOR OUTPUT                           |
| 25      | (19) | CHARACTER | 7   | *              | RESERVED                                       |

## Cross reference

| Name  | Hex Offset | Hex Value | Level |
|-------|------------|-----------|-------|
| RCLOP | 0          |           | 1     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| RCO_ALWAYS     | 0          |           | 1     |
| RCO_ALWAYSPP   | 28         |           | 2     |
| RCO_ALWYCTR    | 8          |           | 3     |
| RCO_ALWYDDN    | A          |           | 3     |
| RCO_ALWYEYE    | 0          |           | 3     |
| RCO_ALWYFIX    | 0          |           | 2     |
| RCO_ALWYTSZ    | 4          |           | 3     |
| RCO_ALWYVAR    | A          |           | 2     |
| RCO_CLASTAB    | 10         |           | 2     |
| RCO_CLJOBNA    | 34         |           | 2     |
| RCO_CLTABLE    | 0          |           | 2     |
| RCO_DSDEST     | 2C         |           | 2     |
| RCO_DUMMYLAST  | 3A         |           | 2     |
| RCO_EXTRA      | 0          |           | 2     |
| RCO_EYE        | 0          |           | 2     |
| RCO_GDGPROT    | 42         |           | 2     |
| RCO_GDGSIMAUTO | 39         |           | 2     |
| RCO_IMMLOGIC   | 38         |           | 2     |
| RCO_JCCCLTAB   | 44         |           | 2     |
| RCO_JESCLASS   | 18         |           | 3     |
| RCO_JESDST     | 0          |           | 1     |
| RCO_JLOG       | 43         |           | 2     |
| RCO_JOBINFO    | 4C         |           | 2     |
| RCO_JOPI       | 44         |           | 2     |
| RCO_LISTCNT    | 0          |           | 3     |
| RCO_NEVEX      | 0          |           | 1     |
| RCO_NEVEXCTR   | 8          |           | 3     |
| RCO_NEVEXDDN   | A          |           | 3     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| RCO_NEVEXEYE  | 0          |           | 3     |
| RCO_NEVEXFIX  | 0          |           | 2     |
| RCO_NEVEXP    | 24         |           | 2     |
| RCO_NEVEXTSZ  | 4          |           | 3     |
| RCO_NEVEXVAR  | A          |           | 2     |
| RCO_NOREST    | 0          |           | 1     |
| RCO_NORESTP   | 20         |           | 2     |
| RCO_NORSCTR   | 8          |           | 3     |
| RCO_NORSDDN   | A          |           | 3     |
| RCO_NORSEYE   | 0          |           | 3     |
| RCO_NORSFIX   | 0          |           | 2     |
| RCO_NORSTSZ   | 4          |           | 3     |
| RCO_NORSVAR   | A          |           | 2     |
| RCO_PRDDCTR   | 8          |           | 3     |
| RCO_PRDDEYE   | 0          |           | 3     |
| RCO_PRDDFIX   | 0          |           | 2     |
| RCO_PRDDNAME  | A          |           | 3     |
| RCO_PRDDTSZ   | 4          |           | 3     |
| RCO_PRDDVAR   | A          |           | 2     |
| RCO_PRDSCTR   | 8          |           | 3     |
| RCO_PRDSEYE   | 0          |           | 3     |
| RCO_PRDSFIX   | 0          |           | 2     |
| RCO_PRDSNAME  | A          |           | 3     |
| RCO_PRDSTSZ   | 4          |           | 3     |
| RCO_PRDSVAR   | A          |           | 2     |
| RCO_PROTDDMBR | 14         |           | 2     |
| RCO_PROTDDN   | 0          |           | 1     |
| RCO_PROTDDNP  | 1C         |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| RCO_PROTDSMBR  | 8          |           | 2     |
| RCO_PROTDSN    | 0          |           | 1     |
| RCO_PROTDSNP   | 10         |           | 2     |
| RCO_RMMACTIVE  | 3A         |           | 2     |
| RCO_SAVPROTDD  | 3C         |           | 2     |
| RCO_SAVPROTDS  | 40         |           | 2     |
| RCO_SP         | 4          |           | 2     |
| RCO_STEPRESCHK | 3B         |           | 2     |
| RCO_TABLEN     | 4          |           | 3     |
| RCO_TRKDEST    | 10         |           | 3     |
| RCO_USERSYS    | 39         |           | 2     |

## REL - Job release record

### Example

Name : DCLREL

Function:

This segment declares the layout of a release record in a submit release data set

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 0       | (0)  | STRUCTURE | 80  | REL        | RELEASE RECORD            |
| 0       | (0)  | CHARACTER | 8   | RELJOBNM   | JOB NAME                  |
| 8       | (8)  | CHARACTER | 8   | RELJOBID   | JOB ID                    |
| 16      | (10) | CHARACTER | 16  | RELADID    | APPLICATION NAME          |
| 32      | (20) | CHARACTER | 10  | RELOPIA    | OPERATION INPUT ARRIVAL   |
| 42      | (2A) | SIGNED    | 2   | RELOPNUM   | OPERATION NUMBER          |
| 44      | (2C) | CHARACTER | 4   | RELWSID    | WORK STATION NAME         |
| 48      | (30) | SIGNED    | 4   | RELRETRY   | NUMBER OF RELEASE RETRIES |
| 52      | (34) | CHARACTER | 28  | RELSPARE   | SPARE                     |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| REL      | 0          |           | 1     |
| RELADID  | 10         |           | 2     |
| RELJOBID | 8          |           | 2     |
| RELJOBNM | 0          |           | 2     |
| RELOPIA  | 20         |           | 2     |
| RELOPNUM | 2A         |           | 2     |
| RELRETRY | 30         |           | 2     |
| RELSPARE | 34         |           | 2     |
| RELWSID  | 2C         |           | 2     |

## RNGRP - rungroup

Name: DCLRNGRP

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | *   | rungroup   |             |

Fixed part of common data

| Offsets |     |           |     |             |                          |
|---------|-----|-----------|-----|-------------|--------------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description              |
| 0       | (0) | CHARACTER | 180 | rungrcom    |                          |
| 0       | (0) | CHARACTER | 2   | rungrtype   | used by IO routines '08' |
| 2       | (2) | CHARACTER | 8   | rungrkey    | key of the record        |
| 2       | (2) | CHARACTER | 8   | rungrid     | run cycle group id       |
| 10      | (A) | UNSIGNED  | 1   | rungrver    | version number           |
| 11      | (B) | BITSTRING | 1   | rungrflags  | flags                    |
|         |     | 1... ..   |     | rungrcaldef | work bit, off in DB      |



| Offsets |      |           |     |            |                              |
|---------|------|-----------|-----|------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                  |
|         |      | .111 1111 |     | *          | reserved                     |
| 12      | (C)  | CHARACTER | 4   | rungriat   | default ia time (opt)        |
| 16      | (10) | CHARACTER | 16  | rungrjvtab | default group jv table (opt) |
| 32      | (20) | CHARACTER | 16  | rungrcal   | default group calendar (opt) |
| 48      | (30) | CHARACTER | 50  | rungrdesc  | run cycle group description  |
| 98      | (62) | CHARACTER | 8   | rungrluser | lastupdate user-id           |
| 106     | (6A) | CHARACTER | 6   | rungrldate | last update date             |
| 112     | (70) | CHARACTER | 4   | rungrltime | last update time             |
| 116     | (74) | SIGNED    | 4   | rungrunc   | total number of runcycles    |
| 120     | (78) | SIGNED    | 4   | rungrfrun  | offset to first runcycle     |
| 124     | (7C) | CHARACTER | 8   | rungrluts  | lastupdate timestamp         |
| 132     | (84) | CHARACTER | 16  | rungrowner | owner                        |
| 148     | (94) | CHARACTER | 6   | rungrdead  | default deadline             |
| 148     | (94) | CHARACTER | 2   | rungrday   | deadline day rel. to start   |
| 150     | (96) | CHARACTER | 4   | rungrtime  | deadline time                |
| 154     | (9A) | CHARACTER | 26  | *          | reserved                     |
| 180     | (B4) | CHARACTER | *   | rungrvar   | variable length section      |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 156 | runcycle   |             |

run cycle definition

| Offsets |     |        |     |            |                         |
|---------|-----|--------|-----|------------|-------------------------|
| Dec     | Hex | Type   | Len | Name (Dim) | Description             |
| 0       | (0) | SIGNED | 4   | runnrun    | offset to next runcycle |
| 4       | (4) | SIGNED | 2   | runcycle   | run cycle number        |

| Offsets |      |           |     |             |                              |
|---------|------|-----------|-----|-------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                  |
| 6       | (6)  | CHARACTER | 8   | runname     | period name, rule name       |
| 14      | (E)  | CHARACTER | 4   | *           | reserved                     |
| 18      | (12) | UNSIGNED  | 1   | runrule     | free day rule                |
| 19      | (13) | CHARACTER | 1   | runtype     | run cycle type               |
| 20      | (14) | CHARACTER | 6   | runfrom     | run cycle valid from         |
| 26      | (1A) | CHARACTER | 6   | runout      | run cycle not valid from     |
| 32      | (20) | CHARACTER | 50  | rundesc     | run cycle description        |
| 82      | (52) | CHARACTER | 4   | runiatime   | input arrival time           |
| 86      | (56) | CHARACTER | 16  | runjvtab    | jcl var table name           |
| 102     | (66) | SIGNED    | 2   | runrulelen  | rule definition length       |
| 104     | (68) | CHARACTER | 4   | runeveryrr  | EVERY repeat range           |
| 108     | (6C) | CHARACTER | 4   | runeveryet  | EVERY end time               |
| 112     | (70) | CHARACTER | 8   | runsetid    | run cycle set identifier     |
| 120     | (78) | CHARACTER | 16  | runcalendar | run cycle secondary calendar |
| 136     | (88) | CHARACTER | 6   | rundead     | deadline                     |
| 136     | (88) | CHARACTER | 2   | rundday     | deadline day rel. to start   |
| 138     | (8A) | CHARACTER | 4   | rundtime    | deadline time                |
| 142     | (8E) | CHARACTER | 14  | *           | free                         |
| 156     | (9C) | CHARACTER |     | runend      |                              |

| Offsets |     |           |     |            |                         |
|---------|-----|-----------|-----|------------|-------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description             |
| 0       | (0) | STRUCTURE | *   | runrdefseg | rule definition segment |
| 0       | (0) | CHARACTER | *   | runrdef    | rule definition value   |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| runcalendar | 78         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| runcycle    | 0          |           | 1     |
| runcycle    | 4          |           | 2     |
| rundday     | 88         |           | 3     |
| rundead     | 88         |           | 2     |
| rundesc     | 20         |           | 2     |
| rundtime    | 8A         |           | 3     |
| runend      | 9C         |           | 2     |
| runeveryet  | 6C         |           | 2     |
| runeveryrr  | 68         |           | 2     |
| runfrom     | 14         |           | 2     |
| rungrcal    | 20         |           | 3     |
| rungrcaldef | B          | 80        | 4     |
| rungrcom    | 0          |           | 2     |
| rungrday    | 94         |           | 4     |
| rungrdead   | 94         |           | 3     |
| rungrdesc   | 30         |           | 3     |
| rungrflags  | B          |           | 3     |
| rungrfrun   | 78         |           | 3     |
| rungriat    | C          |           | 3     |
| rungrid     | 2          |           | 4     |
| rungrjvtab  | 10         |           | 3     |
| rungrkey    | 2          |           | 3     |
| rungrldate  | 6A         |           | 3     |
| rungrltime  | 70         |           | 3     |
| rungrluser  | 62         |           | 3     |
| rungrluts   | 7C         |           | 3     |
| rungroup    | 0          |           | 1     |
| rungrowner  | 84         |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| rungrunc   | 74         |           | 3     |
| rungrtime  | 96         |           | 4     |
| rungrtype  | 0          |           | 3     |
| rungrvar   | B4         |           | 2     |
| rungrver   | A          |           | 3     |
| runiatime  | 52         |           | 2     |
| runjvtab   | 56         |           | 2     |
| runname    | 6          |           | 2     |
| runnrun    | 0          |           | 2     |
| runout     | 1A         |           | 2     |
| runrdef    | 0          |           | 2     |
| runrdefseg | 0          |           | 1     |
| runrule    | 12         |           | 2     |
| runrulelen | 66         |           | 2     |
| runsetid   | 70         |           | 2     |
| runtype    | 13         |           | 2     |

## RSR - Special resource record

### Example

Name : DCLRSR

Function:

Resource Class Data Description Declare. This segment describes the main key of a resource data instance, as well as defining the actual data objects contained for this key. This mapping applies to the RD data set records, the CX data sets, and for resource data in storage.

| Offsets |     |           |     |            |                           |
|---------|-----|-----------|-----|------------|---------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description               |
| 0       | (0) | STRUCTURE | 44  | RSU        |                           |
| 0       | (0) | ADDRESS   | 4   | RSUNEXT    | ADDRESS TO NEXT ENTRY   0 |
| 4       | (4) | CHARACTER | 4   | RSUEYE     | ID                        |

| Offsets                                                                          |      |           |     |            |                     |
|----------------------------------------------------------------------------------|------|-----------|-----|------------|---------------------|
| Dec                                                                              | Hex  | Type      | Len | Name (Dim) | Description         |
| 8                                                                                | (8)  | CHARACTER | 2   | RSUVER     | VERSION NUMBER      |
| 10                                                                               | (A)  | CHARACTER | 2   | *          | RESERVED            |
| 12                                                                               | (C)  | CHARACTER | 4   | RSUOPER    | CP OPERATION ID     |
| 12                                                                               | (C)  | UNSIGNED  | 3   | RSUOCC     | OCCURRENCE ID       |
| 15                                                                               | (F)  | UNSIGNED  | 1   | RSUOP      | OPERATION ID        |
| 16                                                                               | (10) | CHARACTER | 1   | RSUALCTYPE | ALLOCATE TYPE (X/S) |
| 17                                                                               | (11) | CHARACTER | 11  | *          | RESERVED            |
| 28                                                                               | (1C) | CHARACTER | 4   | RSUWS      | WORK STATION        |
| 32                                                                               | (20) | SIGNED    | 4   | RSUALCNUM  | AMOUNT ALLOCATED    |
| 36                                                                               | (24) | CHARACTER | 8   | RSUJOBNAME | JOBNAME             |
| 44                                                                               | (2C) | CHARACTER |     | RSUEND     | END                 |
| OPERATIONS WAITING FOR RESOURCE ALLOCATION ADDRESSED VIA QRSPLNWAIT (SEE DCLQRS) |      |           |     |            |                     |

| Offsets |      |           |     |            |                              |
|---------|------|-----------|-----|------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                  |
| 0       | (0)  | STRUCTURE | 44  | RSW        |                              |
| 0       | (0)  | ADDRESS   | 4   | RSWNEXT    | ADDRESS TO NEXT ENTRY   0    |
| 4       | (4)  | CHARACTER | 4   | RSWEYE     | ID                           |
| 8       | (8)  | CHARACTER | 2   | RSWVER     | VERSION NUMBER               |
| 10      | (A)  | BITSTRING | 1   | RSWFLAGS   | FLAG BYTE                    |
|         |      | 1... ..   |     | RSWCONTTIE | CONTENTION MESSAGE TIE BUILD |
|         |      | .1.. ..   |     | RSWCHANGED | RESOURCE WAS UPDATED         |
|         |      | ..11 1111 |     | *          | RESERVED                     |
| 11      | (B)  | CHARACTER | 1   | *          | RESERVED                     |
| 12      | (C)  | CHARACTER | 4   | RSWOPER    | CP OPERATION KEY             |
| 12      | (C)  | UNSIGNED  | 3   | RSWOCC     | OCCURRENCE ID                |
| 15      | (F)  | UNSIGNED  | 1   | RSWOP      | OPERATION ID                 |
| 16      | (10) | CHARACTER | 1   | RSWALCTYPE | ALLOCATE TYPE (X/S)          |

| Offsets                                                                                                   |      |           |     |            |                          |
|-----------------------------------------------------------------------------------------------------------|------|-----------|-----|------------|--------------------------|
| Dec                                                                                                       | Hex  | Type      | Len | Name (Dim) | Description              |
| 17                                                                                                        | (11) | CHARACTER | 11  | *          | RESERVED                 |
| 28                                                                                                        | (1C) | CHARACTER | 4   | RSWWS      | WORK STATION             |
| 32                                                                                                        | (20) | SIGNED    | 4   | RSWALCNUM  | AMOUNT TO ALLOCATE       |
| 36                                                                                                        | (24) | CHARACTER | 8   | RSWALCTIME | TIME PUT ON WAIT Q (TOD) |
| 44                                                                                                        | (2C) | CHARACTER |     | RSWEND     | END                      |
| DIALOG RESOURCE LIST EXTENSION THE EXTENSION<br>IS APPENDED TO THE RS MAIN BODY DURING A GS LIST REQUEST. |      |           |     |            |                          |

| Offsets                                                                                                         |      |           |     |            |                               |
|-----------------------------------------------------------------------------------------------------------------|------|-----------|-----|------------|-------------------------------|
| Dec                                                                                                             | Hex  | Type      | Len | Name (Dim) | Description                   |
| 0                                                                                                               | (0)  | STRUCTURE | 72  | RSL        | DIALOG LIST EXTENTION         |
| 0                                                                                                               | (0)  | SIGNED    | 4   | RSLXUSE    | CURRENT USED EXCLUSIVE        |
| 4                                                                                                               | (4)  | SIGNED    | 4   | RSLSUSE    | CURRENT USED SHARED           |
| 8                                                                                                               | (8)  | SIGNED    | 4   | RSLWAITR   | RESERVED                      |
| 12                                                                                                              | (C)  | SIGNED    | 4   | *          | WAITING REASON (SEE DCLQDRSN) |
| 16                                                                                                              | (10) | CHARACTER | 1   | RSLWQF     | ELEMENTS ON WAIT QUEUE (Y/N)  |
| 17                                                                                                              | (11) | CHARACTER | 1   | RSLXALL    | ANY CURRENT ALL X             |
| 18                                                                                                              | (12) | CHARACTER | 1   | RSLSALL    | S                             |
| 19                                                                                                              | (13) | CHARACTER | 5   | *          | RESERVED                      |
| 24                                                                                                              | (18) | CHARACTER | 48  | RSLCURIVL  | CURRENT INTERVAL              |
| 72                                                                                                              | (48) | CHARACTER |     | RSELEND    | END                           |
| DIALOG IN USE LIST AND WAITING QUEUE MAPPING. USED FOR DIALOG<br>REQUESTS WITH RESOURCE CODE RESESWQ & RESRSUL. |      |           |     |            |                               |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 72  | RSD        |             |
| 0       | (0) | CHARACTER | 28  | RSDKEY     | CP KEY      |
| 0       | (0) | CHARACTER | 16  | RSDOCC     | OCC ID      |

| Offsets                                                                                                                                              |      |           |     |            |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|-----|------------|----------------------------|
| Dec                                                                                                                                                  | Hex  | Type      | Len | Name (Dim) | Description                |
| 16                                                                                                                                                   | (10) | CHARACTER | 6   | RSDOCCIAD  | OCC INPUT ARRIVAL DATE     |
| 22                                                                                                                                                   | (16) | CHARACTER | 4   | RSDOCCIAT  | OCC INPUT ARRIVAL TIME     |
| 26                                                                                                                                                   | (1A) | SIGNED    | 2   | RSDOPNO    | OPERATION NUMBER           |
| 28                                                                                                                                                   | (1C) | CHARACTER | 4   | RSDWS      | WORK STATION               |
| 32                                                                                                                                                   | (20) | CHARACTER | 8   | RSDJOBNAME | JOBNAME                    |
| 40                                                                                                                                                   | (28) | CHARACTER | 6   | RSDOPSTD   | OPERATION START/L.OUT DATE |
| 46                                                                                                                                                   | (2E) | CHARACTER | 4   | RSDOPSTT   | OPERATION START/L.OUT TIME |
| 50                                                                                                                                                   | (32) | SIGNED    | 4   | RSDOCCNO   | OCCURRENCE NUMBER          |
| 54                                                                                                                                                   | (36) | SIGNED    | 4   | RSDALCNUM  | AMOUNT ALLOCATED           |
| 58                                                                                                                                                   | (3A) | SIGNED    | 2   | RSDPRIO    | PRIORITY                   |
| 60                                                                                                                                                   | (3C) | SIGNED    | 2   | RSDDUR     | DURATION                   |
| 62                                                                                                                                                   | (3E) | CHARACTER | 1   | RSDALCTYPE | ALLOCATION TYPE            |
| 63                                                                                                                                                   | (3F) | CHARACTER | 1   | RSDSTAT    | STATUS                     |
| 64                                                                                                                                                   | (40) | SIGNED    | 4   | RSDWRSN    | REASON FOR WAIT            |
| 68                                                                                                                                                   | (44) | CHARACTER | 1   | RS DIAFLAG | FLAGS                      |
|                                                                                                                                                      |      | 1... ..   |     | RSDINUSEL  | IN-USE LIST                |
| 69                                                                                                                                                   | (45) | CHARACTER | 3   | *          | RESERVED                   |
| 72                                                                                                                                                   | (48) | CHARACTER |     | RSDEND     | END                        |
| RESOURCE INSTANCE DESCRIPTION. KEY FIELDS ARE DEFINED HERE. WHEN LOCATED<br>IN THE RS-DATASPACE THE RECORD IS ADDRESSABLE VIA QRSPLNIX (SEE DCLQRS). |      |           |     |            |                            |

| Offsets |      |           |     |            |                                       |
|---------|------|-----------|-----|------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                           |
| 0       | (0)  | STRUCTURE | 216 | RS         | RESOURCE INSTANCE STRUCTURE           |
| 0       | (0)  | CHARACTER | 64  | RSKEY      | KEY STRUCTURE                         |
| 0       | (0)  | CHARACTER | 2   | RSID       | USED BY FOR IO METHODS                |
| 2       | (2)  | CHARACTER | 44  | RSNAME     | PLAN INSTANCE KEY                     |
| 46      | (2E) | CHARACTER | 16  | *          | RESERVED FOR ADDITIONAL KEY<br>FIELDS |

| Offsets                                                                                                                                                 |      |           |     |             |                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|-----|-------------|-----------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                     | Hex  | Type      | Len | Name (Dim)  | Description                                                                                               |
| OBJECT HEADER. CONTAINS THE INDEX ID OF THE RESOURCE AS WELL AS COMMON RESOURCE DATA. NOTE: THE OBJECT HEADER IS NOT POSSIBLE TO UPDATE IN DIALOG CODE. |      |           |     |             |                                                                                                           |
| 64                                                                                                                                                      | (40) | CHARACTER | 12  | RSOBJDESC   | OBJECT HEADER STRUCTURE                                                                                   |
| 64                                                                                                                                                      | (40) | SIGNED    | 4   | *           | RESERVED                                                                                                  |
| 68                                                                                                                                                      | (44) | SIGNED    | 4   | RSOBJIDX    | RESOURCE INDEX NUMBER                                                                                     |
| 72                                                                                                                                                      | (48) | BITSTRING | 1   | RSOFLAGS    | FLAG BYTE                                                                                                 |
|                                                                                                                                                         |      | 1... ..   |     | RSOUPDATE   | RECORD UPDATED (IN DSPC ONLY)                                                                             |
|                                                                                                                                                         |      | .1... ..  |     | RSOCONERR   | ON ERROR MODIFIED IN CX                                                                                   |
|                                                                                                                                                         |      | ..1. .... |     | RSOCUSEDFOR | USED FOR CHANGED IN CX                                                                                    |
|                                                                                                                                                         |      | ...1 .... |     | RSOCDEFWSC  | DEFAULT WSC CHANGED IN CX                                                                                 |
|                                                                                                                                                         |      | .... 1... |     | RSODYNADD   | DYNADDED RESOURCE                                                                                         |
|                                                                                                                                                         |      | .... .111 |     | *           | RESERVED                                                                                                  |
| 73                                                                                                                                                      | (49) | CHARACTER | 1   | RSORODMA    | RODM STATUS, AVAILABILITY                                                                                 |
| 74                                                                                                                                                      | (4A) | CHARACTER | 1   | RSORODMQ    | QUANTITY                                                                                                  |
| 75                                                                                                                                                      | (4B) | CHARACTER | 1   | RSORODMD    | DEVIATION                                                                                                 |
| REST OF MAIN RS BODY.                                                                                                                                   |      |           |     |             |                                                                                                           |
| 76                                                                                                                                                      | (4C) | CHARACTER | 4   | RSEYE       | RECORD ID                                                                                                 |
| 80                                                                                                                                                      | (50) | SIGNED    | 4   | RSVER       | RECORD VERSION                                                                                            |
| 84                                                                                                                                                      | (54) | CHARACTER | 8   | RSLUSER     | LAST UPDATING USER in RD                                                                                  |
| 92                                                                                                                                                      | (5C) | CHARACTER | 8   | RSGROUP     | GROUP ID                                                                                                  |
| 100                                                                                                                                                     | (64) | CHARACTER | 6   | RSLUDATE    | DATE OF LAST UPDATE in RD                                                                                 |
| 106                                                                                                                                                     | (6A) | CHARACTER | 4   | RSLUTIME    | TIME OF LAST UPDATE IN RD                                                                                 |
| 110                                                                                                                                                     | (6E) | CHARACTER | 2   | RSOERROR    | ON ERROR OPTION:<br>F=FREE<br>FX=FREE IF EXCLUSIVE<br>FS=FREE IF SHARED<br>K=KEEP<br>'BLANK'=USE DEFAULTS |
| 112                                                                                                                                                     | (70) | SIGNED    | 4   | RSDEVIATION | DEVIATION OF ABOVE (MAX)                                                                                  |



| Offsets                                                        |      |           |     |               |                                                                                                                                                          |
|----------------------------------------------------------------|------|-----------|-----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                            | Hex  | Type      | Len | Name (Dim)    | Description                                                                                                                                              |
| 116                                                            | (74) | CHARACTER | 46  | RSDESC        | RESOURCE DESCRIPTION                                                                                                                                     |
| 162                                                            | (A2) | CHARACTER | 6   | RSLUDATECP    | DATE OF LAST UPD in CP                                                                                                                                   |
| 168                                                            | (A8) | CHARACTER | 4   | RSLUTIMECP    | TIME OF LAST UPD IN CP                                                                                                                                   |
| 2 CHAR(2) , RESERVED                                           |      |           |     |               |                                                                                                                                                          |
| 172                                                            | (AC) | SIGNED    | 4   | RSGQUANT      | GLOBAL (OVERRIDE) QUANTITY                                                                                                                               |
| 176                                                            | (B0) | CHARACTER | 1   | RSGAVAIL      | GLOBAL (OVERRIDE) AVAILABILITY                                                                                                                           |
| 177                                                            | (B1) | CHARACTER | 1   | RSSELAVAIL    | AVAIL FILTER                                                                                                                                             |
| NEXT HAD TO BE MOVED DUE TO CONFLICT WITH V2 ENH. WITH FLAG XB |      |           |     |               |                                                                                                                                                          |
| 178                                                            | (B2) | CHARACTER | 8   | RSRLUTS       | LAST UPDATE TIMESTAMP                                                                                                                                    |
| 186                                                            | (BA) | CHARACTER | 8   | RSLUSERCP     | LAST UPDATING USER IN CP                                                                                                                                 |
| 194                                                            | (C2) | CHARACTER | 1   | RSHIPER       | DLF RESOURCE, Y OR N                                                                                                                                     |
| 195                                                            | (C3) | CHARACTER | 1   | RSUSEDFOR     | USED FOR (N P C B)                                                                                                                                       |
| 196                                                            | (C4) | CHARACTER | 1   | RSSELWAIT     | WAIT FILTER                                                                                                                                              |
| 197                                                            | (C5) | CHARACTER | 1   | RSSELALCS     | ALLOCATED FILTER                                                                                                                                         |
| 198                                                            | (C6) | CHARACTER | 1   | RSONCOMPLETE  | ON COMPLETE OPTION:<br>Y=SET TO YES<br>N=SET TO NO<br>R=RESET<br>'BLANK'=USE DEFAULTS                                                                    |
| 199                                                            | (C7) | CHARACTER | 1   | RSLASTMODTYPE | LAST UPDATE OF GLOBAL<br>AVAILABILITY DUE TO:<br><br>E = EVENT APPLIED<br>M = MAX LIMIT<br>L = LIFESPAN TIE<br>C = ON COMPLETE ACTION<br>'BLANK' = OTHER |
| 200                                                            | (C8) | SIGNED    | 4   | RSIVLNUM      | NUMBER OF INTERVALS                                                                                                                                      |
| 204                                                            | (CC) | SIGNED    | 4   | RSIVLOFF      | OFFSET                                                                                                                                                   |
| 208                                                            | (D0) | SIGNED    | 4   | RSIVLCUR      | CURRENT INTERVAL                                                                                                                                         |
| 212                                                            | (D4) | SIGNED    | 4   | RSIVLDOFF     | RESERVED                                                                                                                                                 |

| Offsets                    |      |           |     |                 |                                                                                                              |
|----------------------------|------|-----------|-----|-----------------|--------------------------------------------------------------------------------------------------------------|
| Dec                        | Hex  | Type      | Len | Name (Dim)      | Description                                                                                                  |
| 216                        | (D8) | SIGNED    | 4   | RSUSAGECOUNTER  | USAGE COUNTER: INCREASED BY 1 EACH TIME A JOB ALLOCATES THE SR. RESET TO 0 WHEN MAX USAGE LIMIT IS EXCEEDED. |
| 220                        | (DC) | SIGNED    | 4   | RSMAXUSAGELIMIT | MAX USAGE LIMIT:<br>0 = DO NOT USE COUNTERS<br>(THIS IS THE DEFAULT)                                         |
| 224                        | (E0) | CHARACTER | 1   | RSMAXUSAGETYPE  | MAX USAGE TYPE:<br>Y = SET TO YES<br>N = SET TO NO<br>'BLANK' = RESET TO BLANK                               |
| 225                        | (E1) | CHARACTER | 1   | RSTIELIFEACT    | S TIE ACTION                                                                                                 |
| 226                        | (E2) | CHARACTER | 10  | RSTIELIFEDAT    | S TIE DATE AND TIME                                                                                          |
| 236                        | (EC) | CHARACTER | 4   | *               | FREE                                                                                                         |
| 240                        | (F0) | CHARACTER |     | RSEND           | END OF OBJECT HEADER                                                                                         |
| INTERVAL DESCRIPTION ARRAY |      |           |     |                 |                                                                                                              |

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 0       | (0)  | STRUCTURE | 48  | RSIVL (*)  | INTERVAL               |
| 0       | (0)  | SIGNED    | 4   | RSIDAY     | DATE                   |
| 4       | (4)  | CHARACTER | 6   | RSIDATE    | DATE                   |
| 10      | (A)  | CHARACTER | 2   | *          | RESERVED               |
| 12      | (C)  | CHARACTER | 4   | RSIFTIME   | FROM TIME              |
| 16      | (10) | CHARACTER | 4   | RSITTIME   | TO TIME                |
| 20      | (14) | SIGNED    | 4   | RSIQUANT   | MAX TO ALLOCATE        |
| 24      | (18) | SIGNED    | 4   | RSIQUANTD  | MAX TO ALLOCATE (PLAN) |
| 28      | (1C) | SIGNED    | 4   | RSIWSCNUM  | NUMBER OF CONNECTED WS |
| 32      | (20) | CHARACTER | 1   | RSIAVAIL   | AVAILABLE (Y/N)        |
| 33      | (21) | CHARACTER | 1   | RSIAVAILD  | AVAILABLE (Y/N) (PLAN) |

| Offsets       |      |           |     |            |                   |
|---------------|------|-----------|-----|------------|-------------------|
| Dec           | Hex  | Type      | Len | Name (Dim) | Description       |
| 34            | (22) | CHARACTER | 1   | *          | RESERVED          |
| 35            | (23) | BITSTRING | 1   | RSIFLAGS   | FLAG BYTE         |
|               |      | 1... ..   |     | RSIMODIFY  | CHANGED IN DIALOG |
|               |      | .111 1111 |     | *          | RESERVED          |
| 36            | (24) | SIGNED    | 4   | RSIWSOFF   | WS OFFSET         |
| 40            | (28) | CHARACTER | 8   | *          | RESERVED          |
| 48            | (30) | CHARACTER |     | RSIEND     | END               |
| INTERVAL DATA |      |           |     |            |                   |

| Offsets |      |           |     |             |                               |
|---------|------|-----------|-----|-------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                   |
| 0       | (0)  | STRUCTURE | 96  | RSIVLDATA   |                               |
| 0       | (0)  | SIGNED    | 4   | RSIMAXUSED  | MAXIMUM CONCURRENT ALLOCATED  |
| 4       | (4)  | SIGNED    | 4   | RSINOWUSES  | CURRENTLY USED SHARED         |
| 8       | (8)  | SIGNED    | 4   | RSINOWUSEX  | CURRENTLY USED EXCLUSIVE      |
| 12      | (C)  | SIGNED    | 4   | RSINOWALLX  | CURRENT ALLOC ALL X           |
| 16      | (10) | SIGNED    | 4   | RSINOWALLS  | CURRENT ALLOC ALL SHARED      |
| 20      | (14) | SIGNED    | 4   | RSIALCTIME  | TIME ALLOCATED                |
| 24      | (18) | SIGNED    | 4   | RSIWAITTIME | TIME WAITING                  |
| 28      | (1C) | SIGNED    | 4   | RSIUAVATIME | TIME UNAVAILABLE              |
| 32      | (20) | SIGNED    | 4   | RSIALCFAIL  | ALLOCATION FAILIURES          |
| 36      | (24) | SIGNED    | 4   | RSICONFAIL  | WS CONNECT FAILURES (DP ONLY) |
| 40      | (28) | SIGNED    | 4   | RSIMADEUA   | MADE UNAVAILABLE TIMESTAMP    |
| 44      | (2C) | SIGNED    | 4   | RSIALCST    | ALLOCATION STARTED            |
| 48      | (30) | SIGNED    | 4   | RSIWAITST   | WAIT STARTED                  |
| 52      | (34) | SIGNED    | 4   | RSISTTIME   | START TIME OF RSID BLOCK      |
| 56      | (38) | SIGNED    | 4   | RSIENDTIME  | END TIME OF THIS IVLD BLOCK   |
| 60      | (3C) | CHARACTER | 10  | RSISTTIMEC  | START DATE & TIME IN CHAR     |

| Offsets                                       |      |           |     |              |             |
|-----------------------------------------------|------|-----------|-----|--------------|-------------|
| Dec                                           | Hex  | Type      | Len | Name (Dim)   | Description |
| 60                                            | (3C) | CHARACTER | 6   | RSISTTIMEC_D | DATE        |
| 66                                            | (42) | CHARACTER | 4   | RSISTTIMEC_T | TIME        |
| 70                                            | (46) | CHARACTER | 10  | *            | RESERVED    |
| 80                                            | (50) | SIGNED    | 4   | * (4)        | RESERVED    |
| 96                                            | (60) | CHARACTER |     | RSIDEND      | END         |
| WORKSTATION CONNECT ARRAY (ONE FOR EACH IVL). |      |           |     |              |             |

| Offsets |     |           |     |             |                   |
|---------|-----|-----------|-----|-------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description       |
| 0       | (0) | STRUCTURE | 8   | RSCONWS (*) |                   |
| 0       | (0) | CHARACTER | 4   | RSCWSDNAME  | WORK STATION NAME |
| 4       | (4) | CHARACTER | 4   | *           | RESERVED          |
| 8       | (8) | CHARACTER |     | RSCEND      | END               |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| RS          | 0          |           | 1     |
| RSCEND      | 8          |           | 2     |
| RSCONWS     | 0          |           | 1     |
| RSCWSDNAME  | 0          |           | 2     |
| RSDESC      | 74         |           | 2     |
| RSDEVIATION | 70         |           | 2     |
| RSEND       | F0         |           | 2     |
| RSEYE       | 4C         |           | 2     |
| RSGAVAIL    | B0         |           | 2     |
| RSGQUANT    | AC         |           | 2     |
| RSGROUP     | 5C         |           | 2     |
| RSHIPER     | C2         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| RSIALCFAIL   | 20         |           | 2     |
| RSIALCST     | 2C         |           | 2     |
| RSIALCTIME   | 14         |           | 2     |
| RSIAVAIL     | 20         |           | 2     |
| RSIAVAILD    | 21         |           | 2     |
| RSICONFAIL   | 24         |           | 2     |
| RSID         | 0          |           | 3     |
| RSIDATE      | 4          |           | 2     |
| RSIDAY       | 0          |           | 2     |
| RSIDEND      | 60         |           | 2     |
| RSIEND       | 30         |           | 2     |
| RSIENDTIME   | 38         |           | 2     |
| RSIFLAGS     | 23         |           | 2     |
| RSIFTIME     | C          |           | 2     |
| RSIMADEUA    | 28         |           | 2     |
| RSIMAXUSED   | 0          |           | 2     |
| RSIMODIFY    | 23         | 80        | 3     |
| RSINOWALLS   | 10         |           | 2     |
| RSINOWALLX   | C          |           | 2     |
| RSINOWUSES   | 4          |           | 2     |
| RSINOWUSEX   | 8          |           | 2     |
| RSIQUANT     | 14         |           | 2     |
| RSIQUANTD    | 18         |           | 2     |
| RSISTTIME    | 34         |           | 2     |
| RSISTTIMEC   | 3C         |           | 2     |
| RSISTTIMEC_D | 3C         |           | 3     |
| RSISTTIMEC_T | 42         |           | 3     |
| RSITTIME     | 10         |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| RSIUAVATIME     | 1C         |           | 2     |
| RSIVL           | 0          |           | 1     |
| RSIVLCUR        | D0         |           | 2     |
| RSIVLDATA       | 0          |           | 1     |
| RSIVLDOFF       | D4         |           | 2     |
| RSIVLNUM        | C8         |           | 2     |
| RSIVLOFF        | CC         |           | 2     |
| RSIWAITST       | 30         |           | 2     |
| RSIWAITTIME     | 18         |           | 2     |
| RSIWSCNUM       | 1C         |           | 2     |
| RSIWSOFF        | 24         |           | 2     |
| RSKEY           | 0          |           | 2     |
| RSLASTMODETYPE  | C7         |           | 2     |
| RSLUDATE        | 64         |           | 2     |
| RSLUDATECP      | A2         |           | 2     |
| RSLUSER         | 54         |           | 2     |
| RSLUSERCP       | BA         |           | 2     |
| RSLUTIME        | 6A         |           | 2     |
| RSLUTIMECP      | A8         |           | 2     |
| RSMAXUSAGELIMIT | DC         |           | 2     |
| RSMAXUSAGETYPE  | E0         |           | 2     |
| RSNAME          | 2          |           | 3     |
| RSOBJDESC       | 40         |           | 2     |
| RSOBJIDX        | 44         |           | 3     |
| RSOCDEFWSC      | 48         | 10        | 4     |
| RSOCONERR       | 48         | 40        | 4     |
| RSOCUSEDFOR     | 48         | 20        | 4     |
| RSODYNADD       | 48         | 08        | 4     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| RSOFLAGS       | 48         |           | 3     |
| RSONCOMPLETE   | C6         |           | 2     |
| RSONERROR      | 6E         |           | 2     |
| RSORODMA       | 49         |           | 3     |
| RSORODMD       | 4B         |           | 3     |
| RSORODMQ       | 4A         |           | 3     |
| RSOUPDATE      | 48         | 80        | 4     |
| RSRLUTS        | B2         |           | 2     |
| RSSELALCS      | C5         |           | 2     |
| RSSELAVAIL     | B1         |           | 2     |
| RSSELWAIT      | C4         |           | 2     |
| RSTIELIFEACT   | E1         |           | 2     |
| RSTIELIFEDAT   | E2         |           | 2     |
| RSUSAGECOUNTER | D8         |           | 2     |
| RSUSEDFOR      | C3         |           | 2     |
| RSVER          | 50         |           | 2     |
| RSW            | 0          |           | 1     |
| RSWALCNUM      | 20         |           | 2     |
| RSWALCTIME     | 24         |           | 2     |
| RSWALCTYPE     | 10         |           | 2     |
| RSWCHANGED     | A          | 40        | 3     |
| RSWCONTTIE     | A          | 80        | 3     |
| RSWEND         | 2C         |           | 2     |
| RSWEYE         | 4          |           | 2     |
| RSWFLAGS       | A          |           | 2     |
| RSWNEXT        | 0          |           | 2     |
| RSWOCC         | C          |           | 3     |
| RSWOP          | F          |           | 3     |

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| RSWOPER | C          |           | 2     |
| RSWVER  | 8          |           | 2     |
| RSWWS   | 1C         |           | 2     |

## RSRR - Special resource report record

### Example

Name : DCLRSRR

Function:

This segment maps the special resource report records in the EQQCXDS.

| Offsets |      |           |     |            |                                       |
|---------|------|-----------|-----|------------|---------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                           |
| 0       | (0)  | STRUCTURE | 136 | RSR        | RESOURCE INSTANCE STRUCTURE           |
| 0       | (0)  | CHARACTER | 64  | RSRKEY     | KEY STRUCTURE                         |
| 0       | (0)  | CHARACTER | 2   | RSRID      | USED BY FOR IO METHODS                |
| 2       | (2)  | CHARACTER | 44  | RSRNAME    | PLAN INSTANCE KEY                     |
| 46      | (2E) | CHARACTER | 10  | RSRFROM    | REPORT INTERVAL START                 |
| 46      | (2E) | CHARACTER | 6   | RSRDATE    | DATE                                  |
| 52      | (34) | CHARACTER | 4   | RSRTIME    | TIME                                  |
| 56      | (38) | CHARACTER | 6   | *          | RESERVED FOR ADDITIONAL KEY ...FIELDS |
| 64      | (40) | BITSTRING | 1   | RSRFLAGS   |                                       |
|         |      | 1... ..   |     | RSRDYNADD  | ON - DYNADDED                         |
|         |      | .1... ..  |     | RSRUPDCON  | ON - UPDATED BY CONTROLLER            |
|         |      | ..11 1111 |     | *          | SPARE                                 |
| 65      | (41) | CHARACTER | 3   | *          | SPARE                                 |
| 68      | (44) | CHARACTER | 4   | RSREYEC    | EYE CATCHER                           |
| 72      | (48) | SIGNED    | 4   | RSRVERSION | VERSION NUMBER                        |
| 76      | (4C) | CHARACTER | 10  | RSRTO      | IVL END                               |
| 76      | (4C) | CHARACTER | 6   | RSREDATE   | DATE                                  |



| Offsets |      |           |     |              |                                 |
|---------|------|-----------|-----|--------------|---------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                     |
| 82      | (52) | CHARACTER | 4   | RSRETIME     | TIME                            |
| 86      | (56) | CHARACTER | 2   | *            | SPARE                           |
| 88      | (58) | CHARACTER | 48  | RSRPARTS     | STATS SECTION                   |
| 88      | (58) | SIGNED    | 4   | RSRMAXPLAN   | MAXIMUM CONCURRENT PLAN         |
| 92      | (5C) | SIGNED    | 4   | RSRMAXUSED   | MAXIMUM CONCURRENT<br>ALLOCATED |
| 96      | (60) | SIGNED    | 4   | RSRIDLETIME  | SECONDS IDLE                    |
| 100     | (64) | SIGNED    | 4   | RSRWAITTIME  | SECONDS WAITING                 |
| 104     | (68) | SIGNED    | 4   | RSRAVAILTIME | SECONDS AVAILABLE               |
| 108     | (6C) | SIGNED    | 4   | RSRALCFAIL   | ALLOCATION FAILURES             |
| 112     | (70) | SIGNED    | 4   | RSRCONFAIL   | WS CONNECT FAILURES             |
| 116     | (74) | SIGNED    | 4   | * (4)        | RESERVED                        |
| 132     | (84) | CHARACTER | 1   | RSRAVAIL     | AVAILABLE (Y/N)                 |
| 133     | (85) | CHARACTER | 3   | *            | RESERVED                        |
| 136     | (88) | CHARACTER |     | RSREND       | END OF OBJECT HEADER            |

## Cross reference

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| RSR          | 0          |           | 1     |
| RSRALCFAIL   | 6C         |           | 3     |
| RSRAVAIL     | 84         |           | 3     |
| RSRAVAILTIME | 68         |           | 3     |
| RSRCONFAIL   | 70         |           | 3     |
| RSRDATE      | 2E         |           | 4     |
| RSRDYNADD    | 40         | 80        | 3     |
| RSREDATE     | 4C         |           | 3     |
| RSREND       | 88         |           | 2     |
| RSRETIME     | 52         |           | 3     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| RSREYEC     | 44         |           | 2     |
| RSRFLAGS    | 40         |           | 2     |
| RSRFROM     | 2E         |           | 3     |
| RSRID       | 0          |           | 3     |
| RSRIDLETIME | 60         |           | 3     |
| RSRKEY      | 0          |           | 2     |
| RSRMAXPLAN  | 58         |           | 3     |
| RSRMAXUSED  | 5C         |           | 3     |
| RSRNAME     | 2          |           | 3     |
| RSRPARTS    | 58         |           | 2     |
| RSRTIME     | 34         |           | 4     |
| RSRTO       | 4C         |           | 2     |
| RSRUPDCON   | 40         | 40        | 3     |
| RSRVERSION  | 48         |           | 2     |
| RSRWAITTIME | 64         |           | 3     |

## SSX - Subsystem communication vector table extension

### Example

Name : DCLSSX

Function:

This segment maps the Subsystem Extension block (SSX) for the subsystem. The SSX IEFJSCVT control block is addressed via the SSCTSUSE pointer of the SSCT block mapped by the macro. In some cases there are two SSX blocks, the current, active SSX addressed via SSCTSUSE, and the old, inactive SSX addressed by SSCTSUS2. The SSX block is allocated in CSA (subpool 241) in key 0 storage. The SSX block is built by the EQQINIT module during Master Scheduler initialization, or by EQQMAJOR during subsystem initialization when the BUILDSSX keyword has been specified. The active SSX block is freed and the inactive SSX is made active during EQQMAJOR termination when there is an inactive SSX.

| Offsets |     |           |      |            |                      |
|---------|-----|-----------|------|------------|----------------------|
| Dec     | Hex | Type      | Len  | Name (Dim) | Description          |
| 0       | (0) | STRUCTURE | 1664 | SSX        | ssvt extension block |

## SSX block identifier and code level

| Offsets |     |           |     |            |                           |
|---------|-----|-----------|-----|------------|---------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description               |
| 0       | (0) | CHARACTER | 4   | SSXDESC    | block descriptor = 'SSX ' |
| 4       | (4) | CHARACTER | 10  | SSXLEVEL   | SSX block code level      |
| 4       | (4) | CHARACTER | 2   | SSXVER     | block mapping version     |
| 6       | (6) | CHARACTER | 8   | SSXFMID    | OPCESA tracker fmid       |
| 14      | (E) | SIGNED    | 2   | SSXSIZE    | size of the SSX block     |

## Status and option flags

| Offsets |      |           |     |            |                                 |
|---------|------|-----------|-----|------------|---------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                     |
| 16      | (10) | BITSTRING | 2   | SSXFLAGS   | subsystem status flags          |
|         |      | 1... ..   |     | SSXJHOLD   | 1 holdjob(yes) requested        |
|         |      | .1.. ..   |     | SSXSTEPS   | 1 generate all step events      |
|         |      | ..1. ..   |     | SSXJSUB    | 1 job submission active         |
|         |      | ...1 ..   |     | SSXJCHLD   | 1 jcc wants held data           |
|         |      | .... 1... |     | SSXETT     | 1 ett function active           |
|         |      | .... .1.. |     | SSXHGHC    | 1 use highest cc for a job      |
|         |      | .... ..1. |     | SSXLSTCC   | 1 use last exec step's cc       |
|         |      | .... ...1 |     | SSXUHOLD   | 1 holdjob(user) requested       |
| 17      | (11) | 1... ..   |     | SSXNZERO   | 1 gen only nzero cc step events |
|         |      | .1.. ..   |     | SSXAR      | 1 auto recovery task is active  |
|         |      | ..1. ..   |     | SSXGDGNS   | 1 GDG_NONST                     |
|         |      | ...1 ..   |     | SSXWRN     | 1 JES sp-lvl warn msg issued    |
|         |      | .... 1... |     | SSXDIAE1   | 1 diagnose event wanted         |
|         |      | .... .1.. |     | SSXSRSRC   | 1 SR.SRNAME is a resource       |
|         |      | .... ..1. |     | SSXFTWJSUB | 1 opc will submit jobs          |
|         |      | .... ...1 |     | SSXRPASS   | 1 RCLPASS = YES                 |

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 18      | (12) | BITSTRING | 4   | SSXFLAG2   | more status flags          |
|         |      | 1... ..   |     | SSXWRN1    | 1 JES exit51 warn msg iss. |
|         |      | .1.. ..   |     | SSXRLWST   | rl.wsstat subresource      |
|         |      | ..1. .... |     | SSXRLWSN   | rl.wsname subresource      |
|         |      | ...1 .... |     | SSXFIPL    | 1 no dslst loaded for IPL  |
|         |      | .... 1... |     | SSXRLADN   | rl.adname subresource      |
|         |      | .... .1.. |     | SSXEMDEB   | Debug in ZEV SX            |
|         |      | .... ..1. |     | SSXJCC     | 1 JCC started              |
|         |      | .... ...1 |     | SSXSSCBIG  | 1 SSC big buffer           |
| 19      | (13) | 1... ..   |     | SSXSINFO   | 1 stepinfo(yes)            |
| 22      | (16) | CHARACTER | 1   | SSXJES     | JES type A=JES2, B=JES3    |
| 23      | (17) | CHARACTER | 1   | SSXCJES    | JES command character      |
| 24      | (18) | CHARACTER | 8   | SSXNODE    | own nje node name          |

#### EQSSCM load module management

| Offsets |      |           |     |             |                             |
|---------|------|-----------|-----|-------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                 |
| 32      | (20) | CHARACTER | 16  | SSXSSCM_CUR | current eqqsscm load module |
| 32      | (20) | CHARACTER | 8   | SSXCMNAME   | eqqsscm load module name    |
| 40      | (28) | ADDRESS   | 4   | SSXCMCATP   | eqqsscm entry point address |
| 44      | (2C) | ADDRESS   | 4   | SSXCMSSRX   | address of eqqzssrx         |
| 48      | (30) | CHARACTER | 16  | SSXSSCM_IPL | previously loaded eqqsscm   |
| 48      | (30) | CHARACTER | 8   | SSXCMNAME   |                             |
| 56      | (38) | ADDRESS   | 4   | SSXCMCATP   |                             |
| 60      | (3C) | ADDRESS   | 4   | SSXCMSSRX   |                             |

#### Allocated resources

| Offsets |      |         |     |            |                                 |
|---------|------|---------|-----|------------|---------------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description                     |
| 64      | (40) | ADDRESS | 4   | SSXAREAS   | chain of allocated csa areas    |
| 68      | (44) | ADDRESS | 4   | SSXEVTQ    | event wtr queue address         |
| 72      | (48) | ADDRESS | 4   | SSXSSCMA   | perm loaded eqqsscm module addr |
| 76      | (4C) | SIGNED  | 4   | SSXSSCMS   | perm loaded eqqsscm module size |
| 80      | (50) | ADDRESS | 4   | SSXNF57A   | EQQZNF57 address                |
| 84      | (54) | SIGNED  | 4   | SSXNF57S   | EQQZNF57 size                   |

SSX label offsets above this point are fixed The only change allowed is defining a bit in an existing flag byte or modifying one of the SSX level constants

| Offsets |      |           |     |               |                          |
|---------|------|-----------|-----|---------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description              |
| 88      | (58) | CHARACTER |     | SSX_END_FIXED | end of fixed ssx mapping |

#### Control Block addresses

| Offsets |      |         |     |            |                               |
|---------|------|---------|-----|------------|-------------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description                   |
| 88      | (58) | ADDRESS | 4   | SSXMCAP    | addr of mca in opc addr space |
| 92      | (5C) | ADDRESS | 4   | SSXASCB    | opc ascb address              |
| 96      | (60) | ADDRESS | 4   | SSXSSCT    | opc scvt address              |
| 100     | (64) | ADDRESS | 4   | SSXSDEPP   | ptr to EW SDEP parms          |
| 104     | (68) | ADDRESS | 4   | SSXDSNEW   | data set trigger table        |
| 108     | (6C) | ADDRESS | 4   | SSXNF41A   | EQQZNF41 address              |
| 112     | (70) | SIGNED  | 4   | SSXNF41S   | EQQZNF41 size                 |
| 116     | (74) | ADDRESS | 4   | SSXNF53A   | EQQZNF53 address              |
| 120     | (78) | SIGNED  | 4   | SSXNF53S   | EQQZNF53 size                 |
| 124     | (7C) | SIGNED  | 4   | * (3)      | reserved                      |

## SSC storage management addresses

| Offsets |      |         |     |            |                         |
|---------|------|---------|-----|------------|-------------------------|
| Dec     | Hex  | Type    | Len | Name (Dim) | Description             |
| 136     | (88) | ADDRESS | 4   | SSXSSCC    | addr of first SSC block |
| 140     | (8C) | ADDRESS | 4   | SSXSSCFR   | addr of first free SSC  |

## TWS storage management addresses

| Offsets |      |           |     |                  |                 |
|---------|------|-----------|-----|------------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)       | Description     |
| 144     | (90) | CHARACTER | 8   | SSXTWSSERVERNAME | TWS Server Name |

bin31 reserved

DBCS options

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 152     | (98) | CHARACTER | 8   | SSXDBCS    | dbcs options             |
| 152     | (98) | CHARACTER | 2   | SSXSORTO   | dbcs sort algorithm      |
| 154     | (9A) | CHARACTER | 1   | SSXADIDF   | dbcs adid option D or E  |
| 155     | (9B) | CHARACTER | 1   | SSXOWIDF   | dbcs owner option D or E |
| 156     | (9C) | CHARACTER | 4   | *          | reserved                 |

## Miscellaneous fields

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 160     | (A0) | CHARACTER | 8   | SSXSJID    | started task job number   |
| 168     | (A8) | CHARACTER | 8   | SSXSJNM    | started task job name     |
| 176     | (B0) | CHARACTER | 4   | SSXSID     | MVS system id             |
| 180     | (B4) | CHARACTER | 4   | SSXSSNM    | submitting subsystem name |
| 184     | (B8) | CHARACTER | 8   | SSXCLAS    | RACF resource class name  |
| 192     | (C0) | CHARACTER | 16  | SSXJCCLS   | JCC sysout classes        |

| Offsets |       |           |     |            |                             |
|---------|-------|-----------|-----|------------|-----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description                 |
| 208     | (D0)  | CHARACTER | 1   | SSXPRTev   | prtev N=no, '='=end, A=all  |
| 209     | (D1)  | CHARACTER | 1   | SSXJES3    | JES3 type G=Global, L=Local |
| 210     | (D2)  | CHARACTER | 1   | *          | free                        |
| 211     | (D3)  | CHARACTER | 1   | *          | free                        |
| 212     | (D4)  | CHARACTER | 8   | SSXJFMID   | JES fmid                    |
| 220     | (DC)  | CHARACTER | 4   | SSXDIAJN   | diagnose JOBSTC name        |
| 224     | (E0)  | BITSTRING | 4   | SSXIECB    | JES input service ECB       |
| 228     | (E4)  | BITSTRING | 4   | SSXE ECB   | JES execution ECB           |
| 232     | (E8)  | UNSIGNED  | 4   | SSXPTKN    | current MGCR ptoken         |
| 236     | (EC)  | SIGNED    | 4   | SSXSDTR    | used as indicator only      |
| 240     | (F0)  | SIGNED    | 4   | SSXUTIME   | time of last uerror event   |
| 244     | (F4)  | SIGNED    | 4   | SSXATIME   | time of last aerror event   |
| 248     | (F8)  | SIGNED    | 4   | SSXSZNEW   | size of DS trigger table    |
| 252     | (FC)  | SIGNED    | 4   | *          | reserved                    |
| 256     | (100) | SIGNED    | 4   | SSXRTOKA   | addr space res mgr token    |
| 260     | (104) | SIGNED    | 4   | SSXRTOKT   | task level res mgr token    |
| 264     | (108) | SIGNED    | 4   | SSX_PIF_CW | pif cw base year            |
| 268     | (10C) | CHARACTER | 6   | SSX_PIF_HD | pif high date format        |
| 274     | (112) | CHARACTER | 5   | SSXCLNJOB  | stand alone jobname prefix  |
| 279     | (117) | CHARACTER | 1   | *          | reserved                    |

## OPC Queue Addresses

| Offsets |       |           |     |            |                          |
|---------|-------|-----------|-----|------------|--------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description              |
| 280     | (118) | CHARACTER | 104 | SSXQTABLE  | OPC queue addresses      |
| 280     | (118) | ADDRESS   | 4   | * (26)     | array of queue addresses |

## OPC Queue Server blocks

| Offsets |       |           |     |              |                                      |
|---------|-------|-----------|-----|--------------|--------------------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)   | Description                          |
| 384     | (180) | CHARACTER | 48  | SSXQUES (26) | queue server blocks mapped by dclque |
| 1632    | (660) | CHARACTER | 32  | *            | reserved slack space                 |
| 1664    | (680) | CHARACTER |     | SSXEND       | end of ssx                           |

#### OPC Queue array mapping

When adding a new queue pointer do not reuse a used array entry

The maximum array index that can be used is defined by ssxnumq

Increased ssxnumq for future development

| Offsets |       |           |     |            |                            |
|---------|-------|-----------|-----|------------|----------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description                |
| 280     | (118) | STRUCTURE | 104 | SSXQPTRS   | array of queue addresses   |
| 280     | (118) | ADDRESS   | 4   | *          | reserved by event writer 1 |
| 284     | (11C) | ADDRESS   | 4   | SSXGENQ    | gen service queue 2        |
| 288     | (120) | ADDRESS   | 4   | SSXJCCQ    | jcc service queue 3        |
| 292     | (124) | ADDRESS   | 4   | SSXMGRQ    | event mgr queue 4          |
| 296     | (128) | ADDRESS   | 4   | SSXMSGQ    | major msg queue 5          |
| 300     | (12C) | ADDRESS   | 4   | SSXAPPQ    | appc queue 6               |
| 304     | (130) | ADDRESS   | 4   | SSXRTRQ    | router queue 7             |
| 308     | (134) | ADDRESS   | 4   | SSXTIPQ    | tcpip queue (ex CatMgt) 8  |
| 312     | (138) | ADDRESS   | 4   | SSXSUBQ    | job submit queue 9         |
| 316     | (13C) | ADDRESS   | 4   | SSXNCFQ    | ncf queue 10               |
| 320     | (140) | ADDRESS   | 4   | SSXEXQ     | exa queue 11               |
| 324     | (144) | ADDRESS   | 4   | *          | free 12                    |
| 328     | (148) | ADDRESS   | 4   | SSXRODQ    | rodm queue 13              |
| 332     | (14C) | ADDRESS   | 4   | SSXATRQ    | appc tracker queue 14      |
| 336     | (150) | ADDRESS   | 4   | SSXSRVQ    | Server queue 15            |
| 340     | (154) | ADDRESS   | 4   | SSXARCQ    | FL task queue 16           |
| 344     | (158) | ADDRESS   | 4   | SSXPSUQ    | PSU task queue 17          |



| Offsets |       |         |     |            |                       |
|---------|-------|---------|-----|------------|-----------------------|
| Dec     | Hex   | Type    | Len | Name (Dim) | Description           |
| 348     | (15C) | ADDRESS | 4   | SSXTWSQ    | TWS task queue 18     |
| 352     | (160) | ADDRESS | 4   | SSXMONQ    | MON task queue 19     |
| 356     | (164) | ADDRESS | 4   | SSXCPHQ    | CPH task queue 20     |
| 360     | (168) | ADDRESS | 4   | SSXMAJQ    | major queue 21        |
| 364     | (16C) | ADDRESS | 4   | SSXHTTQ    | HTTP task queue 22    |
| 368     | (170) | ADDRESS | 4   | SSXBTPQ    | BT task queue 23      |
| 372     | (174) | ADDRESS | 4   | SSXBKPQ    | BKP task queue 24     |
| 376     | (178) | ADDRESS | 4   | * (2)      | free for future 25-26 |

Some SSX constants

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 24  | SSXSDEPF   | SDEPFILTER options     |
| 0       | (0) | SIGNED    | 2   | SSXSDSTART | - start point (offset) |
| 2       | (2) | SIGNED    | 2   | SSXSDLEN   | - value length         |
| 4       | (4) | CHARACTER | 20  | SSXSDVAL   | - value                |

## Cross reference

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| SSX           | 0          |           | 1     |
| SSX_END_FIXED | 58         |           | 2     |
| SSX_PIF_CW    | 108        |           | 2     |
| SSX_PIF_HD    | 10C        |           | 2     |
| SSXADIDF      | 9A         |           | 3     |
| SSXAPPQ       | 12C        |           | 2     |
| SSXAR         | 11         | 40        | 3     |
| SSXARCQ       | 154        |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| SSXAREAS  | 40         |           | 2     |
| SSXASCB   | 5C         |           | 2     |
| SSXATIME  | F4         |           | 2     |
| SSXATRQ   | 14C        |           | 2     |
| SSXBKPQ   | 174        |           | 2     |
| SSXBTPQ   | 170        |           | 2     |
| SSXCJES   | 17         |           | 2     |
| SSXCLAS   | B8         |           | 2     |
| SSXCLNJOB | 112        |           | 2     |
| SSXCMCATP | 28         |           | 3     |
| SSXCMCATP | 38         |           | 3     |
| SSXCMNAME | 30         |           | 3     |
| SSXCMNAME | 20         |           | 3     |
| SSXCMSSRX | 2C         |           | 3     |
| SSXCMSSRX | 3C         |           | 3     |
| SSXCPHQ   | 164        |           | 2     |
| SSXDBCS   | 98         |           | 2     |
| SSXDESC   | 0          |           | 2     |
| SSXDIAE1  | 11         | 08        | 3     |
| SSXDIAJN  | DC         |           | 2     |
| SSXDSNEW  | 68         |           | 2     |
| SSXE ECB  | E4         |           | 2     |
| SSXEMDEB  | 12         | 04        | 3     |
| SSXEND    | 680        |           | 2     |
| SSXETT    | 10         | 08        | 3     |
| SSXEVTQ   | 44         |           | 2     |
| SSSEXQ    | 140        |           | 2     |
| SSXFIPL   | 12         | 10        | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| SSXFLAGS   | 10         |           | 2     |
| SSXFLAG2   | 12         |           | 2     |
| SSXFMID    | 6          |           | 3     |
| SSXFTWJSUB | 11         | 02        | 3     |
| SSXGDGNS   | 11         | 20        | 3     |
| SSXGENQ    | 11C        |           | 2     |
| SSXHGHC    | 10         | 04        | 3     |
| SSXHTTQ    | 16C        |           | 2     |
| SSXIECB    | E0         |           | 2     |
| SSXJCC     | 12         | 02        | 3     |
| SSXJCCLS   | C0         |           | 2     |
| SSXJCCQ    | 120        |           | 2     |
| SSXJCHLD   | 10         | 10        | 3     |
| SSXJES     | 16         |           | 2     |
| SSXJES3    | D1         |           | 2     |
| SSXJFMID   | D4         |           | 2     |
| SSXJHOLD   | 10         | 80        | 3     |
| SSXJSUB    | 10         | 20        | 3     |
| SSXLEVEL   | 4          |           | 2     |
| SSXLSTCC   | 10         | 02        | 3     |
| SSXMAJQ    | 168        |           | 2     |
| SSXMCAP    | 58         |           | 2     |
| SSXMGRQ    | 124        |           | 2     |
| SSXMONQ    | 160        |           | 2     |
| SSXMSGQ    | 128        |           | 2     |
| SSXNCFQ    | 13C        |           | 2     |
| SSXNF41A   | 6C         |           | 2     |
| SSXNF41S   | 70         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| SSXNF53A   | 74         |           | 2     |
| SSXNF53S   | 78         |           | 2     |
| SSXNF57A   | 50         |           | 2     |
| SSXNF57S   | 54         |           | 2     |
| SSXNODE    | 18         |           | 2     |
| SSXNZERO   | 11         | 80        | 3     |
| SSXOWIDF   | 9B         |           | 3     |
| SSXPRTEV   | D0         |           | 2     |
| SSXPSUQ    | 158        |           | 2     |
| SSXPTKN    | E8         |           | 2     |
| SSXQPTRS   | 118        |           | 1     |
| SSXQTABLE  | 118        |           | 2     |
| SSXQUES    | 180        |           | 2     |
| SSXRLADN   | 12         | 08        | 3     |
| SSXRLWSN   | 12         | 20        | 3     |
| SSXRLWST   | 12         | 40        | 3     |
| SSXRODQ    | 148        |           | 2     |
| SSXRPASS   | 11         | 01        | 3     |
| SSXRTOKA   | 100        |           | 2     |
| SSXRTOKT   | 104        |           | 2     |
| SSXRTRQ    | 130        |           | 2     |
| SSXSDEPF   | 0          |           | 1     |
| SSXSDEPP   | 64         |           | 2     |
| SSXSDLEN   | 2          |           | 2     |
| SSXSDSTART | 0          |           | 2     |
| SSXSDTR    | EC         |           | 2     |
| SSXSDVAL   | 4          |           | 2     |
| SSXSID     | B0         |           | 2     |

| Name             | Hex Offset | Hex Value | Level |
|------------------|------------|-----------|-------|
| SSXSINFO         | 13         | 80        | 3     |
| SSXSIZE          | E          |           | 2     |
| SSXSJID          | A0         |           | 2     |
| SSXSJNM          | A8         |           | 2     |
| SSXSORTO         | 98         |           | 3     |
| SSXSRSRC         | 11         | 04        | 3     |
| SSXSRVQ          | 150        |           | 2     |
| SSXSSCBIG        | 12         | 01        | 3     |
| SSXSSCC          | 88         |           | 2     |
| SSXSSCFR         | 8C         |           | 2     |
| SSXSSCM_CUR      | 20         |           | 2     |
| SSXSSCM_IPL      | 30         |           | 2     |
| SSXSSCMA         | 48         |           | 2     |
| SSXSSCMS         | 4C         |           | 2     |
| SSXSSCT          | 60         |           | 2     |
| SSXSSNM          | B4         |           | 2     |
| SSXSTEPS         | 10         | 40        | 3     |
| SSXSUBQ          | 138        |           | 2     |
| SSXSZNEW         | F8         |           | 2     |
| SSXTIPQ          | 134        |           | 2     |
| SSXTWSQ          | 15C        |           | 2     |
| SSXTWSSERVERNAME | 90         |           | 2     |
| SSXUHOLD         | 10         | 01        | 3     |
| SSXUTIME         | F0         |           | 2     |
| SSXVER           | 4          |           | 3     |
| SSXWRN           | 11         | 10        | 3     |
| SSXWRN1          | 12         | 80        | 3     |

## STR01 - ST HDR RECORD

Name: DCLSTR01

| Offsets |     |           |     |            |               |
|---------|-----|-----------|-----|------------|---------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description   |
| 0       | (0) | STRUCTURE | 194 | STREC01    | ST HDR RECORD |

## KEY

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | CHARACTER | 68  | STKEY01    |                       |
| 0       | (0) | CHARACTER | 2   | STKYP01    | TYPE IS ALWAYS 01     |
| 2       | (2) | CHARACTER | 66  | STKF01     | SHOULD CONTAIN BLANKS |

## BODY

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 68      | (44) | CHARACTER | 126 | STBDY01    | HDR RECORD BODY       |
| 68      | (44) | CHARACTER | 4   | STEYE01    | EYECATCHER            |
| 72      | (48) | UNSIGNED  | 1   | STVERS01   | VERSION NUMBER        |
| 73      | (49) | CHARACTER | 1   | *          | FREE                  |
| 74      | (4A) | CHARACTER | 10  | STLEVEL    | ST LEVEL              |
| 74      | (4A) | CHARACTER | 2   | STLEV_VER  | -- VERSION            |
| 76      | (4C) | CHARACTER | 8   | STLEV_FMID | -- FMID               |
| 84      | (54) | CHARACTER | 10  | STINIT     | BLANK OR 'Init Empty' |
| 94      | (5E) | CHARACTER | 100 | *          | free                  |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| STBDY01    | 44         |           | 2     |
| STEYE01    | 44         |           | 3     |
| STINIT     | 54         |           | 3     |
| STKEY01    | 0          |           | 2     |
| STKF01     | 2          |           | 3     |
| STKYP01    | 0          |           | 3     |
| STLEV_FMID | 4C         |           | 4     |
| STLEV_VER  | 4A         |           | 4     |
| STLEVEL    | 4A         |           | 3     |
| STREC01    | 0          |           | 1     |
| STVERS01   | 48         |           | 3     |

## STR02 - ST HDR RECORD

Name: DCLSTR02

| Offsets |     |           |     |            |               |
|---------|-----|-----------|-----|------------|---------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description   |
| 0       | (0) | STRUCTURE | *   | STREC02    | ST HDR RECORD |

KEY

| Offsets |      |           |     |            |                    |
|---------|------|-----------|-----|------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description        |
| 0       | (0)  | CHARACTER | 68  | STKEY02    |                    |
| 0       | (0)  | CHARACTER | 2   | STKYP02    | TYPE IS ALWAYS 02  |
| 2       | (2)  | CHARACTER | 8   | STJOBN     | job name           |
| 10      | (A)  | CHARACTER | 8   | STJOBID    | job id             |
| 18      | (12) | SIGNED    | 4   | STRDRDAT   | JES start rdr date |

| Offsets |      |           |     |            |                     |
|---------|------|-----------|-----|------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description         |
| 22      | (16) | SIGNED    | 4   | STRDRTIM   | JES start rdr time  |
| 26      | (1A) | CHARACTER | 42  | STKFILL    | always binary zeros |

## BODY

| Offsets |      |           |     |            |                               |
|---------|------|-----------|-----|------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                   |
| 68      | (44) | CHARACTER | 60  | STBDY02    | HDR RECORD BODY               |
| 68      | (44) | CHARACTER | 4   | STEYE02    | EYECATCHER                    |
| 72      | (48) | UNSIGNED  | 1   | STVERS02   | VERSION NUMBER                |
| 73      | (49) | CHARACTER | 1   | *          |                               |
| 74      | (4A) | UNSIGNED  | 2   | STTOTNUM   | total number of steps         |
| 76      | (4C) | CHARACTER | 8   | STOCCTOKEN | occurrence token - not filled |
| 84      | (54) | SIGNED    | 4   | STOPRNUM   | operation number - not filled |
| 88      | (58) | SIGNED    | 4   | STORGID    | orig job id (exrorgid)        |
| 92      | (5C) | CHARACTER | 8   | STONJE     | orig NJE (exronje)            |
| 100     | (64) | CHARACTER | 8   | STRNJE     | next NJE (exrrnje)            |
| 108     | (6C) | CHARACTER | 8   | STRNJE2    | next NJE (exrrnje) A2         |
| 116     | (74) | CHARACTER | 12  | *          | free                          |

## VARIABLE PART

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 128     | (80) | CHARACTER | *   | STVAR02    | VAR DATA    |



## VARIABLE PART STEP ENTRY

| Offsets |      |           |     |             |                      |
|---------|------|-----------|-----|-------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description          |
| 0       | (0)  | STRUCTURE | 48  | ST_STEP (*) |                      |
| 0       | (0)  | SIGNED    | 4   | ST_NUMB     | STEP NUMBER          |
| 4       | (4)  | CHARACTER | 8   | ST_SNAME    | STEP NAME            |
| 12      | (C)  | CHARACTER | 8   | ST_SPROC    | PROC STEP NAME       |
| 20      | (14) | CHARACTER | 1   | ST_FLU      | Y FLUSHED            |
| 21      | (15) | CHARACTER | 1   | ST_ABE      | Y ABENDED            |
| 22      | (16) | CHARACTER | 1   | *           | free                 |
| 23      | (17) | CHARACTER | 5   | ST_CCODE    | STEP COMPLETION CODE |
| 28      | (1C) | SIGNED    | 4   | ST_SDATE    | STEP START DATE      |
| 32      | (20) | SIGNED    | 4   | ST_STIME    | STEP START TIME      |
| 36      | (24) | SIGNED    | 4   | ST_EDATE    | STEP END DATE        |
| 40      | (28) | SIGNED    | 4   | ST_ETIME    | STEP END TIME        |
| 44      | (2C) | SIGNED    | 4   | *           | free                 |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| ST_ABE   | 15         |           | 2     |
| ST_CCODE | 17         |           | 2     |
| ST_EDATE | 24         |           | 2     |
| ST_ETIME | 28         |           | 2     |
| ST_FLU   | 14         |           | 2     |
| ST_NUMB  | 0          |           | 2     |
| ST_SDATE | 1C         |           | 2     |
| ST_SNAME | 4          |           | 2     |
| ST_SPROC | C          |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| ST_STEP    | 0          |           | 1     |
| ST_STIME   | 20         |           | 2     |
| STBDY02    | 44         |           | 2     |
| STEYE02    | 44         |           | 3     |
| STJOBID    | A          |           | 3     |
| STJOBN     | 2          |           | 3     |
| STKEY02    | 0          |           | 2     |
| STKFILL    | 1A         |           | 3     |
| STKYP02    | 0          |           | 3     |
| STOCCTOKEN | 4C         |           | 3     |
| STONJE     | 5C         |           | 3     |
| STOPRNUM   | 54         |           | 3     |
| STORGID    | 58         |           | 3     |
| STRDRDAT   | 12         |           | 3     |
| STRDRTIM   | 16         |           | 3     |
| STREC02    | 0          |           | 1     |
| STRNJE     | 64         |           | 3     |
| STRNJE2    | 6C         |           | 3     |
| STTOTNUM   | 4A         |           | 3     |
| STVAR02    | 80         |           | 2     |
| STVERS02   | 48         |           | 3     |

## TOC - Table of contents for DP reports

### Example

Name : DCLTOC

Function:

This segment declares the table of contents record in a daily plan report.

| Offsets |      |           |     |            |                              |
|---------|------|-----------|-----|------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                  |
| 0       | (0)  | STRUCTURE | 88  | TABCONT    | TABLE OF CONTENTS (DP)       |
| 0       | (0)  | CHARACTER | 6   | TABGIM     | GENERAL INFORMATION DJAC     |
| 6       | (6)  | CHARACTER | 6   | TABDOP     | DAILY OPERATION PLAN DJAC    |
| 12      | (C)  | ADDRESS   | 4   | TABWS      | WORKSTATION(S) PLANS         |
| 16      | (10) | CHARACTER | 6   | TABSUM     | SUMMARY OF COMPLETED APPDJAC |
| 22      | (16) | CHARACTER | 6   | TABCMP     | COMPLETED APPLICATIONS DJAC  |
| 28      | (1C) | CHARACTER | 6   | TABOPE     | OPERATION IN ERROR DJAC      |
| 34      | (22) | CHARACTER | 6   | TABWSU     | WORKSTATION UTILIZATION DJAC |
| 40      | (28) | CHARACTER | 6   | TABERS     | ERROR STATISTICS DJAC        |
| 46      | (2E) | CHARACTER | 6   | TABFBR     | MISSED FEEDBACK DJAC         |
| 52      | (34) | CHARACTER | 6   | tabhpr     | planned res util hisL5ADJAC  |
| 58      | (3A) | CHARACTER | 6   | tabpru     | planned res util repl5ADJAC  |
| 64      | (40) | CHARACTER | 6   | tabaru     | actual res util repl5ADJAC   |
| 70      | (46) | CHARACTER | 6   | TABMST     | MESSAGES DJAC                |
| 76      | (4C) | CHARACTER | 6   | TABCri     | Critical Path 31A41CDJAC     |
| 82      | (52) | CHARACTER | 6   | TABxst     | X status 41ADJAC             |

## Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| tabaru  | 40         |           | 2     |
| TABCMP  | 16         |           | 2     |
| TABCONT | 0          |           | 1     |
| TABCri  | 4C         |           | 2     |
| TABDOP  | 6          |           | 2     |
| TABERS  | 28         |           | 2     |
| TABFBR  | 2E         |           | 2     |
| TABGIM  | 0          |           | 2     |
| tabhpr  | 34         |           | 2     |

| Name   | Hex Offset | Hex Value | Level |
|--------|------------|-----------|-------|
| TABMST | 46         |           | 2     |
| TABOPE | 1C         |           | 2     |
| tabpru | 3A         |           | 2     |
| TABSUM | 10         |           | 2     |
| TABWS  | C          |           | 2     |
| TABWSU | 22         |           | 2     |
| TABxst | 52         |           | 2     |

## TRG - Data set trigger table layout

### Example

Name : DCLTRG

Function:

This segment maps EQQEVLIB members, that are input data for the controller, and the EQQEVLS member of EQQJCLIB, that is input data for the tracker. The mapping varies depending on the type of the specific item in the triggering selection table, that is one of the following:

Header

Trigger condition

Filter criteria

Filter value

Action

Special resource related information

Data loaded in Common Service Area (CSA), mapped by TRGTABLEHEADER and following structures.

### Example

| Offsets | Type          | Length | Name             | Description                                          |
|---------|---------------|--------|------------------|------------------------------------------------------|
| 0       | (0) STRUCTURE | 8      | TRGITABLEHEADER  |                                                      |
| 0       | (0) CHARACTER | 1      | TRGITABLECHECK   | =0 ALWAYS                                            |
| 1       | (1) CHARACTER | 1      | TRGITABLEVERSION |                                                      |
| 2       | (2) CHARACTER | 1      | TRGITABLERELEASE |                                                      |
| 3       | (3) CHARACTER | 1      | *                | BLANK                                                |
| 4       | (4) CHARACTER | 4      | TRGITABLECRC     | CRC IDENTIFYING THE TABLE C<br>MUST BE WORD ALLIGNED |

| Offsets | Type          | Length | Name            | Description            |
|---------|---------------|--------|-----------------|------------------------|
| 0       | (0) STRUCTURE | 9      | TRGICONDITION   |                        |
| 0       | (0) CHARACTER | 1      | TRGICONDMONITOR | S FOR SMF              |
| 1       | (1) CHARACTER | 1      | TRGICONDDRAFT   | D OR BLANK             |
| 2       | (2) CHARACTER | 3      | TRGICONDTYPE    | CONDITION TO BE TESTED |
| 5       | (5) CHARACTER | 1      | *               | BLANK                  |

|   |     |           |   |                       |
|---|-----|-----------|---|-----------------------|
| 6 | (6) | CHARACTER | 3 | TRGICONDFILTERSNUMBER |
| 9 | (9) | CHARACTER |   | TRGICONDDATA          |

| Offsets | Type | Length    | Name | Description                 |                           |
|---------|------|-----------|------|-----------------------------|---------------------------|
| 0       | (0)  | STRUCTURE | 11   | TRGIFILTER                  |                           |
| 0       | (0)  | CHARACTER | 1    | *                           | ;                         |
| 1       | (1)  | CHARACTER | 3    | TRGIFILTERFIELD             |                           |
| 4       | (4)  | CHARACTER | 1    | *                           | BLANK                     |
| 5       | (5)  | CHARACTER | 1    | TRGIFILTERVALUESNUMBERIDENT |                           |
| 6       | (6)  | CHARACTER | 2    | TRGIFILTERVALUESNUMBER      |                           |
| 8       | (8)  | CHARACTER | 2    | TRGIFILTEROPERATOR          | ==, <>, >=, <=, ><(RANGE) |
| 10      | (A)  | CHARACTER | 1    | TRGIFILTEROREAND            |                           |
| 11      | (B)  | CHARACTER |      | TRGIFILTERDATA              |                           |

| Offsets | Type | Length    | Name | Description           |       |
|---------|------|-----------|------|-----------------------|-------|
| 0       | (0)  | STRUCTURE | *    | TRGIFILTERVALUE       |       |
| 0       | (0)  | CHARACTER | 1    | *                     | BLANK |
| 1       | (1)  | CHARACTER | 3    | TRGIFILTERVALUELEN    |       |
| 4       | (4)  | CHARACTER | 1    | *                     | :     |
| 5       | (5)  | CHARACTER | 3    | TRGIFILTERVALUEOFFSET |       |
| 8       | (8)  | CHARACTER | 1    | *                     | :     |
| 9       | (9)  | CHARACTER | *    | TRGIFILTERVALUESTR    |       |

| Offsets | Type | Length    | Name | Description    |                  |
|---------|------|-----------|------|----------------|------------------|
| 0       | (0)  | STRUCTURE | 4    | TRGIACTION     |                  |
| 0       | (0)  | CHARACTER | 1    | *              | ;                |
| 1       | (1)  | CHARACTER | 2    | TRGIACTIONTYPE | ACTION INDICATOR |
| 3       | (3)  | CHARACTER | 1    | *              | BLANK            |
| 4       | (4)  | CHARACTER |      | TRGIACTIONINFO |                  |

| Offsets | Type | Length    | Name | Description          |                                                     |
|---------|------|-----------|------|----------------------|-----------------------------------------------------|
| 0       | (0)  | STRUCTURE | 9    | TRGISRSTATACTIONINFO |                                                     |
| 0       | (0)  | CHARACTER | 1    | TRGISRAVAILABILITY   |                                                     |
| 1       | (1)  | CHARACTER | 1    | TRGISRLIFACTION      |                                                     |
| 2       | (2)  | CHARACTER | 5    | TRGISRLIFTIME        |                                                     |
| 7       | (7)  | CHARACTER | 2    | *                    | ;; THIS FIELD IDENTIFY THE<br>END OF CONDITION..... |

| Offsets | Type | Length    | Name | Description    |
|---------|------|-----------|------|----------------|
| 0       | (0)  | STRUCTURE | 4    | TRGTABLEHEADER |
| 0       | (0)  | CHARACTER | 4    | TRGTABLECRC    |
| 4       | (4)  | CHARACTER |      | TRGTABLEDATA   |

| Offsets | Type | Length    | Name | Description          |
|---------|------|-----------|------|----------------------|
| 0       | (0)  | STRUCTURE | 5    | TRGCONDITION         |
| 0       | (0)  | UNSIGNED  | 1    | TRGCONDMONITOR       |
| 1       | (1)  | UNSIGNED  | 1    | TRGCONDTYPE          |
| 2       | (2)  | UNSIGNED  | 2    | TRGCONDNEXTOFFSET    |
| 4       | (4)  | UNSIGNED  | 1    | TRGCONDFILTERSNUMBER |
| 5       | (5)  | CHARACTER |      | TRGCONDDATA          |

| Offsets | Type          | Length | Name                  | Description          |
|---------|---------------|--------|-----------------------|----------------------|
| 0       | (0) STRUCTURE | 2      | TRGFILTER             | GENERIC EVENT FILTER |
| 0       | (0) UNSIGNED  | 1      | TRGFILTERFIELD        | FIELD IN SMF RECORD  |
| 1       | (1) 1111 .... |        | TRGFILTERVALUESNUMBER |                      |
|         | .... 111.     |        | TRGFILTEROPERATOR     |                      |
|         | .... ...1     |        | TRGFILTEROREAND       |                      |
| 2       | (2) CHARACTER |        | TRGFILTERDATA         | START OF VALUES      |

| Offsets | Type          | Length | Name                 | Description |
|---------|---------------|--------|----------------------|-------------|
| 0       | (0) STRUCTURE | *      | TRGFILTERVALUE       |             |
| 0       | (0) UNSIGNED  | 1      | TRGFILTERVALUELEN    |             |
| 1       | (1) UNSIGNED  | 1      | TRGFILTERVALUEOFFSET |             |
| 2       | (2) CHARACTER | *      | TRGFILTERVALUESTR    |             |

| Offsets | Type          | Length | Name          | Description |
|---------|---------------|--------|---------------|-------------|
| 0       | (0) STRUCTURE | 1      | TRGACTION     |             |
|         | 1111 ....     |        | TRGACTIONTYPE |             |

| Offsets | Type          | Length | Name            | Description |
|---------|---------------|--------|-----------------|-------------|
| 0       | (0) STRUCTURE | 6      | TRGSRSTATACTION | NOT USED    |
|         | 1111 ....     |        | *               |             |

Cross reference

Example

| HEX                   | HEX | OFFSET | VALUE | LEVEL |
|-----------------------|-----|--------|-------|-------|
| NAME                  |     | -----  | ----- | ----  |
| TRGACTION             |     | 0      |       | 1     |
| TRGACTIONTYPE         |     | 0      | F0    | 2     |
| TRGCONDDATA           |     | 5      |       | 2     |
| TRGCONDFILTERSNUMBER  |     | 4      |       | 2     |
| TRGCONDITION          |     | 0      |       | 1     |
| TRGCONDMONITOR        |     | 0      |       | 2     |
| TRGCONDNEXTOFFSET     |     | 2      |       | 2     |
| TRGCONDTYPE           |     | 1      |       | 2     |
| TRGFILTER             |     | 0      |       | 1     |
| TRGFILTERDATA         |     | 2      |       | 2     |
| TRGFILTERFIELD        |     | 0      |       | 2     |
| TRGFILTEROPERATOR     |     | 1      | 0E    | 2     |
| TRGFILTEROREAND       |     | 1      | 01    | 2     |
| TRGFILTERVALUE        |     | 0      |       | 1     |
| TRGFILTERVALUELEN     |     | 0      |       | 2     |
| TRGFILTERVALUEOFFSET  |     | 1      |       | 2     |
| TRGFILTERVALUESNUMBER |     | 1      | F0    | 2     |
| TRGFILTERVALUESTR     |     | 2      |       | 2     |
| TRGIACTION            |     | 0      |       | 1     |
| TRGIACTIONINFO        |     | 4      |       | 2     |
| TRGIACTIONTYPE        |     | 1      |       | 2     |
| TRGICONDDATA          |     | 9      |       | 2     |
| TRGICONDDRAFT         |     | 1      |       | 2     |
| TRGICONDFILTERSNUMBER |     | 6      |       | 2     |
| TRGICONDITION         |     | 0      |       | 1     |
| TRGICONDMONITOR       |     | 0      |       | 2     |
| TRGICONDDTYPE         |     | 2      |       | 2     |
| TRGIFILTER            |     | 0      |       | 1     |
| TRGIFILTERDATA        |     | B      |       | 2     |

|                             |   |      |
|-----------------------------|---|------|
| TRGIFILTERFIELD             | 1 | 2    |
| TRGIFILTEROPERATOR          | 8 | 2    |
| TRGIFILTEROREAND            | A | 2    |
| TRGIFILTERVALUE             | 0 | 1    |
| TRGIFILTERVALUELEN          | 1 | 2    |
| TRGIFILTERVALUEOFFSET       | 5 | 2    |
| TRGIFILTERVALUESNUMBER      | 6 | 2    |
| TRGIFILTERVALUESNUMBERIDENT | 5 | 2    |
| TRGIFILTERVALUESTR          | 9 | 2    |
| TRGISRAVAILABILITY          | 0 | 2    |
| TRGISRLIFACTION             | 1 | 2    |
| TRGISRLIFTIME               | 2 | 2    |
| TRGISRSTATACTIONINFO        | 0 | 1    |
| TRGITABLECHECK              | 0 | 2    |
| TRGITABLECRC                | 4 | 2    |
| TRGITABLEHEADER             | 0 | 1    |
| TRGITABLERELEASE            | 2 | 2    |
| TRGITABLEVERSION            | 1 | 2    |
| TRGSRAVAILABILITY           | 0 | 0C 2 |
| TRGSRLIFACTION              | 0 | 03 2 |
| TRGSRLIFTIME                | 1 | 2    |
| TRGSRSTATACTION             | 0 | 1    |
| TRGTABLECRC                 | 0 | 2    |
| TRGTABLEDATA                | 4 | 2    |
| TRGTABLEHEADER              | 0 | 1    |

## TRL - Job-tracking and audit record

Name: DCLTRL

| Offsets |     |           |     |            |                                |
|---------|-----|-----------|-----|------------|--------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                    |
| 0       | (0) | STRUCTURE | *   | trlrec     |                                |
| 0       | (0) | CHARACTER | 52  | trlcom     | common section                 |
| 0       | (0) | SIGNED    | 2   | trlsize    | size of this record            |
| 2       | (2) | UNSIGNED  | 2   | trlbdw     | always zeroes                  |
| 2       | (2) | UNSIGNED  | 1   | trlJTid    |                                |
| 3       | (3) | CHARACTER | 1   | trlfill2   |                                |
|         |     | 1... .... |     | trlckptr   | flags                          |
|         |     | .1.. .... |     | trlsa      | performing CKPT refresh        |
|         |     | ..1. .... |     | trlbypass  | bypass at restart              |
|         |     | ...1 .... |     | trlTURNOV  | on turnover in progress        |
|         |     | .... 1... |     | trlBKPT    | on precedes db data to send91A |

| Offsets |      |           |     |            |                                                   |
|---------|------|-----------|-----|------------|---------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                       |
|         |      | .... .1.. |     | *          |                                                   |
|         |      | .... ..1. |     | trIFsent   | first send after interrupt                        |
|         |      | .... ...1 |     | trlfromBKP | BACKUP controller generate                        |
| 4       | (4)  | CHARACTER | 3   | trlopc     | should always contain 'OPC'                       |
| 7       | (7)  | CHARACTER | 2   | trllogid   | curr id of this opc log.                          |
| 9       | (9)  | CHARACTER | 2   | trlrctyp   | record type                                       |
| 11      | (B)  | UNSIGNED  | 1   | trlrcver   | record mapping version. - now is 02               |
| 12      | (C)  | CHARACTER | 4   | trlevdat   | event date, format 00yydddf                       |
| 16      | (10) | UNSIGNED  | 4   | trlevtim   | event time, format hhmmsssth                      |
| 20      | (14) | CHARACTER | 19  | trlcpkey   | contains current plan key for type 01, 02, 03, 22 |
| 20      | (14) | CHARACTER | 6   | *          | operation record key present for 23,26,29,33 rec  |
| 20      | (14) | SIGNED    | 4   | trlcpeut   | elapsed time for mcp present for type 24 rec      |
| 26      | (1A) | CHARACTER | 8   | trluser    | dialog user name                                  |
| 34      | (22) | UNSIGNED  | 2   | trlsseq    | submit seq number present for type 25 rec         |
| 39      | (27) | CHARACTER | 1   | trlfill    | flags                                             |
|         |      | 1... .... |     | trlfirst   | first of a series of recs                         |
|         |      | .1.. .... |     | trllost    | last of a series of recs                          |
|         |      | ..1. .... |     | trlstc     | log rec is for STC oper                           |
|         |      | ...1 .... |     | trlwto     | log rec is for WTO oper                           |
|         |      | .... 1... |     | trlresub   | re-submit type 25                                 |
|         |      | .... .1.. |     | trljrpfl   | ETT JNR=Y matched ev't                            |
|         |      | .... ..1. |     | trloldcp   | from old current plan                             |
|         |      | .... ...1 |     | trljrnl    | ETT JNR=N matched ev't                            |
| 40      | (28) | SIGNED    | 4   | trllengt   | total size of logged evt                          |
| 44      | (2C) | SIGNED    | 4   | trlgmtof   | GMT offset                                        |



moved above

3 trlfill2 flags

4 trlckptr bit1 performing CKPT refresh

4 trlsa bit1 SA submission

4 bit6 Reserved

moved above

| Offsets |      |            |     |            |                       |
|---------|------|------------|-----|------------|-----------------------|
| Dec     | Hex  | Type       | Len | Name (Dim) | Description           |
| 48      | (30) | UNSIGNED   | 4   | trlSEQNO   | TRL seq no            |
| 48      | (30) | CHARACTER  | 1   | trlfill2_o |                       |
|         |      | 1... ....  |     | trlckptr_o |                       |
|         |      | .1... .... |     | trlsa_o    |                       |
|         |      | ..11 1111  |     | *          |                       |
| 49      | (31) | CHARACTER  | 3   | *          |                       |
| 52      | (34) | CHARACTER  | *   | trlrcbdy   | end of common section |

#### TRL 20 JT STARTED EVENT

| Offsets |      |           |     |            |                                                |
|---------|------|-----------|-----|------------|------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                    |
| 52      | (34) | STRUCTURE | 1   | trlbdy20   | body of jt started event                       |
| 52      | (34) | CHARACTER | 1   | trlmod20   | mode jt was started in t (track) or u (update) |

#### TRL 23 OPERATION EVENT

| Offsets |      |           |     |            |                                                        |
|---------|------|-----------|-----|------------|--------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                            |
| 52      | (34) | STRUCTURE | 80  | trlbdy23   | body of operation event                                |
| 52      | (34) | CHARACTER | 16  | trladi23   | ad id for occurrence                                   |
| 68      | (44) | CHARACTER | 6   | trliad23   | mod input arr date                                     |
| 74      | (4A) | CHARACTER | 4   | trliat23   | mod input arr time                                     |
| 78      | (4E) | CHARACTER | 6   | trloid23   | operation id                                           |
| 78      | (4E) | CHARACTER | 4   | trlwsn23   | workstation name                                       |
| 82      | (52) | SIGNED    | 2   | trlopn23   | operation number                                       |
| 84      | (54) | CHARACTER | 1   | trlevt23   | new operation status or 'X' = reset status or X status |
| 85      | (55) | CHARACTER | 6   | trldur23   | reported duration                                      |
| 91      | (5B) | CHARACTER | 4   | trlerc23   | reported error code                                    |
| 95      | (5F) | CHARACTER | 1   | *          | various flags                                          |
|         |      | 1... .... |     | trlfdb23   | on = occ. is completed                                 |
|         |      | .1.. .... |     | trlbyp23   | on = bypass during restart                             |
|         |      | ..1. .... |     | trlman23   | on = status set manually (gs)                          |
|         |      | ...1 .... |     | trlX23     | on = status X set                                      |
|         |      | .... 1111 |     | *          | reserved                                               |
| 96      | (60) | CHARACTER | 16  | trlowi23   | owner id                                               |
| 112     | (70) | CHARACTER | 8   | trljbn23   | jobname                                                |
| 120     | (78) | UNSIGNED  | 4   | trldurs23  | duration in 100th*sec                                  |
| 124     | (7C) | CHARACTER | 8   | trlready23 | start time wait opr                                    |

## TRL 24 MCP EVENT

| Offsets |      |           |     |            |                   |
|---------|------|-----------|-----|------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description       |
| 52      | (34) | STRUCTURE | *   | trlbdy24   | body of mcp-event |
| 52      | (34) | CHARACTER | *   | trlmt024   | mapped by dclmt0  |

## TRL 25 SUBMIT EVENT

| Offsets |      |           |     |               |                            |
|---------|------|-----------|-----|---------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                |
| 52      | (34) | STRUCTURE | 80  | trlbdy25      | body of submit event       |
| 52      | (34) | CHARACTER | 16  | trlaid25      | ad id for op               |
| 68      | (44) | CHARACTER | 10  | trlia25       | occ input arrival          |
| 68      | (44) | CHARACTER | 6   | trliad25      | mod input arr date         |
| 74      | (4A) | CHARACTER | 4   | trliat25      | mod input arr time         |
| 78      | (4E) | CHARACTER | 8   | trljid25      | blank for sub or 'RELEASE' |
| 86      | (56) | CHARACTER | 8   | trlddn25      | sure ddname or zero        |
| 94      | (5E) | CHARACTER | 8   | trljnm25      | job name                   |
| 102     | (66) | CHARACTER | 8   | trlusr25      | user id or 'OPC'           |
| 110     | (6E) | BITSTRING | 1   | trlFlag       |                            |
|         |      | 1... .... |     | trlWASUJ      | on = from WASUJ            |
|         |      | .1.. .... |     | trlrer25      | on = it was rerouted       |
|         |      | ..1. .... |     | trlexit13rc   | on=rc 12 from exit13       |
|         |      | ...1 1111 |     | *             |                            |
| 111     | (6F) | CHARACTER | 1   | trlTaskType25 | plugin task type           |
| 112     | (70) | CHARACTER | 8   | trltok_full25 | operation token            |
| 112     | (70) | CHARACTER | 4   | trltok_pre25  | token prefix               |
| 116     | (74) | UNSIGNED  | 4   | trltok25      | token value                |
| 120     | (78) | CHARACTER | 8   | trlsubtoken25 | submission token           |

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 128     | (80) | CHARACTER | 4   | trlaltws25 | alternate ws for rerouted |

## TRL 26 AUTO RECOVERY EVENT

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 52      | (34) | STRUCTURE | 27  | trlbdy26   | body of auto recovery |
| 52      | (34) | CHARACTER | 16  | trlaid26   | ad id for op          |
| 68      | (44) | CHARACTER | 10  | trlia26    | occ input arrival     |
| 78      | (4E) | CHARACTER | 1   | trlxst26   | new extended status   |

## TRL 27 MISSED FEEDBACK EVENT

| Offsets |      |           |     |            |                                                                                  |
|---------|------|-----------|-----|------------|----------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                      |
| 52      | (34) | STRUCTURE | 62  | trlbdy27   | body of missed feedback rec                                                      |
| 52      | (34) | CHARACTER | 16  | trlaid27   | ad id for op                                                                     |
| 68      | (44) | CHARACTER | 6   | trliad27   | mod input arr date                                                               |
| 74      | (4A) | CHARACTER | 4   | trliat27   | mod input arr time                                                               |
| 78      | (4E) | CHARACTER | 6   | trloid27   | operation id                                                                     |
| 84      | (54) | CHARACTER | 4   | trledu27   | estimated duration                                                               |
| 88      | (58) | CHARACTER | 6   | trladu27   | actual duration                                                                  |
| 94      | (5E) | CHARACTER | 1   | trlres27   | reason for missed feedback '1' = limit exceeded '2' = ad record in use '3' = not |

| Offsets |      |           |     |            |                                                                                                        |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                            |
|         |      |           |     |            | enough space '4' = io problems '5' = DL before IA '6' = no run cycle found                             |
| 95      | (5F) | CHARACTER | 1   | trlorig27  | origin for missed feedback '1' = operation duration '2' = operation deadline '3' = occurrence deadline |
| 96      | (60) | SIGNED    | 2   | trlrid27   | run cycle id                                                                                           |
| 98      | (62) | CHARACTER | 6   | trledl27   | estimated deadline(oprun)                                                                              |
| 98      | (62) | CHARACTER | 2   | trledld27  | day offset DD                                                                                          |
| 100     | (64) | CHARACTER | 4   | trledlt27  | time HHMM                                                                                              |
| 104     | (68) | CHARACTER | 10  | trladl27   | actual deadline (operrun)                                                                              |
| 104     | (68) | CHARACTER | 6   | trladld27  | date YYMMDD                                                                                            |
| 110     | (6E) | CHARACTER | 4   | trladlt27  | time HHMM                                                                                              |

## TRL 28 MISSED FEEDBACK EVENT

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 52      | (34) | STRUCTURE | *   | trlbdy28   | body of feedback record   |
| 52      | (34) | CHARACTER | 16  | trlaid28   | ad id for occ             |
| 68      | (44) | CHARACTER | 6   | trliad28   | mod input arr date        |
| 74      | (4A) | CHARACTER | 4   | trliat28   | mod input arr time        |
| 78      | (4E) | CHARACTER | 6   | trlodl28   | old run cycle deadline    |
| 78      | (4E) | CHARACTER | 2   | trlodld28  | day offset DD             |
| 80      | (50) | CHARACTER | 4   | trlodlt28  | time HHMM                 |
| 84      | (54) | CHARACTER | 6   | trladl28   | actual run cycle deadline |
| 84      | (54) | CHARACTER | 2   | trladld28  | day offset DD             |
| 86      | (56) | CHARACTER | 4   | trladlt28  | time HHMM                 |

| Offsets |      |           |     |              |                            |
|---------|------|-----------|-----|--------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                |
| 90      | (5A) | SIGNED    | 2   | trlrld28     | run cycle id               |
| 92      | (5C) | SIGNED    | 2   | trlopdl28    | nr ops updt'd for deadline |
| 94      | (5E) | SIGNED    | 2   | trlopdu28    | nr ops updt'd for duration |
| 96      | (60) | SIGNED    | 2   | trlop28      | number of ops updated      |
| 98      | (62) | CHARACTER | 26  | trlops28 (*) | updated operations         |
| 98      | (62) | CHARACTER | 6   | trlopi28     | operation id               |
| 104     | (68) | CHARACTER | 4   | trlodu28     | old duration               |
| 108     | (6C) | CHARACTER | 4   | trladu28     | actual duration            |
| 112     | (70) | CHARACTER | 6   | trlopodl28   | old operation deadline     |
| 112     | (70) | CHARACTER | 2   | trlopodld28  | day offset DD              |
| 114     | (72) | CHARACTER | 4   | trlopodlt28  | time HHMM                  |
| 118     | (76) | CHARACTER | 6   | trlopadl28   | actual operation deadline  |
| 118     | (76) | CHARACTER | 2   | trlopadld28  | day offset DD              |
| 120     | (78) | CHARACTER | 4   | trlopadlt28  | time HHMM                  |

## TRL 29 AUTO TRACKING EVENT

| Offsets |      |           |     |            |                                                                     |
|---------|------|-----------|-----|------------|---------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                         |
| 52      | (34) | STRUCTURE | *   | trlbdy29   | auto tracked event                                                  |
| 52      | (34) | CHARACTER | 1   | trltyp29   | event logging reason 1 event was processed<br>2 event was suspended |
| 53      | (35) | CHARACTER | *   | trlexr29   | event record (see dcleqe)                                           |

code changed below

## TRL 30 SPECIAL RESOURCE EVENT

| Offsets |      |           |     |            |                                                                                      |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                          |
| 52      | (34) | STRUCTURE | *   | trlbdy30   | special resource event                                                               |
| 52      | (34) | CHARACTER | 1   | trltyp30   | type of record R resource record E EXS<br>event record A Actual report record (RSRR) |
| 53      | (35) | CHARACTER | 1   | trlreq30   | request type U update a resource A add a<br>resource                                 |
| 54      | (36) | CHARACTER | 1   | trlfla30   | flags                                                                                |
|         |      | 1... ..   |     | trlsrs30   | ON= SRSTAT change                                                                    |
|         |      | .1... ..  |     | trlchg30   |                                                                                      |
|         |      | ..11 1111 |     | *          | reserved                                                                             |
| 55      | (37) | CHARACTER | 1   | *          | reserved                                                                             |
| 56      | (38) | CHARACTER | *   | trlsr30    | data part                                                                            |

## TRL 30 EXS SR EXS EVENT

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 56      | (38) | STRUCTURE | *   | trlexs30   | event mapping            |
| 56      | (38) | SIGNED    | 4   | trlnode30  | OPC node number          |
| 60      | (3C) | SIGNED    | 4   | trlrdn30   | event reader num in node |
| 64      | (40) | CHARACTER | 8   | trlpos30   | event ds position        |
| 64      | (40) | SIGNED    | 4   | trlcyc30   | write cycle number       |
| 68      | (44) | SIGNED    | 4   | trlrec30   | record number in cycle   |
| 72      | (48) | CHARACTER | *   | trlexsr30  | event record see dclexs  |

code changed above

## TRL 31 ETT EVENT

| Offsets |      |           |     |            |                                                                          |
|---------|------|-----------|-----|------------|--------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                              |
| 52      | (34) | STRUCTURE | *   | trlbdy31   | ett tab file maint ev                                                    |
| 52      | (34) | CHARACTER | 1   | trltyp31   | event logged by 2 general service                                        |
| 53      | (35) | CHARACTER | 1   | trlreq31   | request type U update a criteria I add a<br>criteria D delete a criteria |
| 54      | (36) | CHARACTER | *   | trletc31   | ett rec (see dcletc)                                                     |

## TRL 32 AUDIT TRAIL EVENT

| Offsets |      |           |     |            |                                                                              |
|---------|------|-----------|-----|------------|------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                  |
| 52      | (34) | STRUCTURE | *   | trlbdy32   | audit trail log record                                                       |
| 52      | (34) | CHARACTER | 84  | trlFIX32   |                                                                              |
| 52      | (34) | SIGNED    | 2   | trlkln32   | size of key                                                                  |
| 54      | (36) | SIGNED    | 2   | trlrec32   | amount of data this record                                                   |
| 56      | (38) | SIGNED    | 4   | trltot32   | total data size                                                              |
| 60      | (3C) | SIGNED    | 4   | trlrem32   | remaining data size                                                          |
| 64      | (40) | CHARACTER | 4   | trlfil32   | logical file name                                                            |
| 68      | (44) | CHARACTER | 1   | trlacc32   | access type R read access U update access<br>I add a record D record deleted |
| 69      | (45) | BITSTRING | 3   | trlrsv32   | not used                                                                     |
| 72      | (48) | CHARACTER | 64  | trlkey32   | record key blanks                                                            |
| 72      | (48) | CHARACTER | 28  | *          | reserved                                                                     |
| 100     | (64) | CHARACTER | 8   | trlrib32   | library read from                                                            |



| Offsets |      |           |     |            |                 |
|---------|------|-----------|-----|------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description     |
| 108     | (6C) | CHARACTER | 8   | trlmem32   | jcl member read |
| 116     | (74) | CHARACTER | 19  | *          | reserved        |
| 135     | (87) | CHARACTER | 1   | trlchg32   | record changed  |
| 136     | (88) | CHARACTER | *   | trlVAR32   |                 |
| 136     | (88) | CHARACTER | *   | trldat32   | record data     |

## TRL 33 WSA INFO EVENT

| Offsets |      |           |     |            |                                                                                                                                                                                                                                               |
|---------|------|-----------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                                                                                                                                   |
| 52      | (34) | STRUCTURE | 71  | trlbdy33   | wsa info msg log rec                                                                                                                                                                                                                          |
| 52      | (34) | CHARACTER | 16  | trlaid33   | ad id for op                                                                                                                                                                                                                                  |
| 68      | (44) | CHARACTER | 10  | trlia33    | occ input arrival                                                                                                                                                                                                                             |
| 68      | (44) | CHARACTER | 6   | trliad33   | mod input arr date                                                                                                                                                                                                                            |
| 74      | (4A) | CHARACTER | 4   | trliat33   | mod input arr time                                                                                                                                                                                                                            |
| 78      | (4E) | CHARACTER | 1   | trlmsg33   | type of message issued L late operation:<br><div> WALTE D long duration<br/> WALTE R resource cont.<br/> QQALR W WTO<br/> WAWTO U Urgent queue promotion<br/> N Urgent queue depromot<br/> P WLM promotion<br/> F WLM prom failure msg </div> |
| 79      | (4F) | CHARACTER | 44  | trlnam33   | resource name                                                                                                                                                                                                                                 |
| 123     | (7B) | CHARACTER | 1   | trIDLmsg   | Y N deadline msg                                                                                                                                                                                                                              |
| 124     | (7C) | CHARACTER | 1   | trlL1msg   | Y N not started alert                                                                                                                                                                                                                         |
| 125     | (7D) | CHARACTER | 1   | trlL2msg   | Y N not started action                                                                                                                                                                                                                        |
| 126     | (7E) | CHARACTER | 1   | trlLAmg    | Y N late oper msg                                                                                                                                                                                                                             |

## TRL 34 CATALOG MGT EVENT

| Offsets |      |           |     |            |                                                                                                                                       |
|---------|------|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                                                           |
| 52      | (34) | STRUCTURE | 155 | trlbdy34   | Cat mgt event information                                                                                                             |
| 52      | (34) | CHARACTER | 8   | trljnm34   | Job name                                                                                                                              |
| 60      | (3C) | CHARACTER | 8   | trljid34   | Job id                                                                                                                                |
| 68      | (44) | CHARACTER | 8   | trlnod34   | node id                                                                                                                               |
| 76      | (4C) | CHARACTER | 16  | trladi34   | application id                                                                                                                        |
| 92      | (5C) | CHARACTER | 10  | trliat34   | input arrival                                                                                                                         |
| 102     | (66) | CHARACTER | 1   | trlact34   | Cat Mgt action R = dataset recataloged U = dataset uncataloged D = dataset deleted M = ds waiting for migrat E = catalog return error |
| 103     | (67) | CHARACTER | 8   | trlstp34   | proc stepname or blank                                                                                                                |
| 111     | (6F) | CHARACTER | 8   | trlddn34   | dd name                                                                                                                               |
| 119     | (77) | CHARACTER | 44  | trldsn34   | dataset name                                                                                                                          |
| 163     | (A3) | CHARACTER | 44  | trlcat34   | catalog name, blank if master cat                                                                                                     |

## TRL 35 BACKUP EVENT

| Offsets |      |           |     |            |                            |
|---------|------|-----------|-----|------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                |
| 52      | (34) | STRUCTURE | 40  | trlbdy35   | backup event               |
| 52      | (34) | CHARACTER | 2   | trlres35   | resource dsn name          |
| 54      | (36) | BITSTRING | 1   | trlfl135   | flag byte 1                |
|         |      | 1... ..   |     | trldpa35   | DP active, CP bkup ignored |

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
|         |      | .111 1111 |     | *          | reserved                 |
| 55      | (37) | CHARACTER | 1   | *          | reserved                 |
| 56      | (38) | CHARACTER | 8   | trlusr35   | requesting user id       |
| 64      | (40) | CHARACTER | 8   | trlmjs35   | miscellaneous js values  |
| 64      | (40) | SIGNED    | 4   | trlopt35   | max js size in k bytes   |
| 68      | (44) | SIGNED    | 4   | trlcnt35   | num of inserts on js     |
| 72      | (48) | CHARACTER | 4   | trlmcp35   | miscellaneous cp values  |
| 72      | (48) | SIGNED    | 2   | trllim35   | backup trk records limit |
| 74      | (4A) | SIGNED    | 2   | trltot35   | trk records since backup |
| 76      | (4C) | SIGNED    | 4   | trlnode35  | OPC node number          |
| 80      | (50) | SIGNED    | 4   | trlrdn35   | event reader num in node |
| 84      | (54) | CHARACTER | 8   | trlpos35   | event ds position        |
| 84      | (54) | SIGNED    | 4   | trlcyc35   | write cycle number       |
| 88      | (58) | SIGNED    | 4   | trlrec35   | record number in cycle   |

## TRL 36 CP BACKUP EVENT

| Offsets |      |           |     |              |                                     |
|---------|------|-----------|-----|--------------|-------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                         |
| 52      | (34) | STRUCTURE | 30  | trlbdy36     | CP backup log record                |
| 52      | (34) | CHARACTER | 8   | trlcpdd36    | DDname of backed up ds              |
| 60      | (3C) | CHARACTER | 8   | trljtdd36    | DD of this JT dataset               |
| 68      | (44) | CHARACTER | 8   | trljtddOCP36 | DDname oldcp in CKPT at backup time |
| 76      | (4C) | CHARACTER | 1   | trl36filler  | free                                |
| 77      | (4D) | CHARACTER | 5   | trljtwho36   | who generate the trl                |

## TRL 37 LOG DATA EVENT

| Offsets |      |           |     |            |                     |
|---------|------|-----------|-----|------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description         |
| 52      | (34) | STRUCTURE | *   | trlbdy37   | log data            |
| 52      | (34) | CHARACTER | 4   | trltyp37   | type of data logged |
| 56      | (38) | SIGNED    | 4   | trlsize37  | size of data logged |
| 60      | (3C) | CHARACTER | *   | trldata37  | data part           |

## TRL 38 AR RESTEP INFO EVENT

| Offsets |      |           |     |            |                          |
|---------|------|-----------|-----|------------|--------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description              |
| 52      | (34) | STRUCTURE | 48  | trlbdy38   | body of AR RESSTEP info  |
| 52      | (34) | CHARACTER | 16  | trlaid38   | ad id for op             |
| 68      | (44) | CHARACTER | 10  | trlia38    | occ input arrival        |
| 78      | (4E) | CHARACTER | 2   | *          |                          |
| 80      | (50) | CHARACTER | 20  | trlARinfo  |                          |
| 80      | (50) | SIGNED    | 4   | trlARstn   | AR restart step number   |
| 84      | (54) | CHARACTER | 8   | trlARstep  | AR restart step name     |
| 92      | (5C) | CHARACTER | 8   | trlARpStep | AR restart ProcStep name |

## TRL 39 BULKDISK EVENT

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 52      | (34) | STRUCTURE | 32  | trlbdy39   | bulkdisc event            |
| 52      | (34) | BITSTRING | 1   | trlfl139   | flag byte 1               |
|         |      | 1... ..   |     | trldpa39   | DP active, CP bkup ignore |
|         |      | .111 1111 |     | *          | reserved                  |
| 53      | (35) | CHARACTER | 3   | *          | reserved                  |
| 56      | (38) | CHARACTER | 8   | trlusr39   | requesting user id        |
| 64      | (40) | CHARACTER | 4   | trlmcp39   | miscellaneous cp values   |
| 64      | (40) | SIGNED    | 2   | trllim39   | backup trk records limit  |
| 66      | (42) | SIGNED    | 2   | trltot39   | trk records since backup  |
| 68      | (44) | SIGNED    | 4   | trlnode39  | OPC node number           |
| 72      | (48) | SIGNED    | 4   | trlrdn39   | event reader num in node  |
| 76      | (4C) | CHARACTER | 8   | trlpos39   | event ds position         |
| 76      | (4C) | SIGNED    | 4   | trlcyc39   | write cycle number        |
| 80      | (50) | SIGNED    | 4   | trlrec39   | record number in cycle    |

## TRL 40 CP66 EVENT

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 52      | (34) | STRUCTURE | 56  | trlbdy40   | body of CP66 event inf |
| 52      | (34) | CHARACTER | 16  | trladi40   | aoccurrence number     |
| 68      | (44) | CHARACTER | 10  | trlia40    |                        |
| 68      | (44) | CHARACTER | 6   | trliad40   |                        |
| 74      | (4A) | CHARACTER | 4   | trliat40   |                        |
| 78      | (4E) | CHARACTER | 6   | trlold40   |                        |
| 78      | (4E) | CHARACTER | 4   | trlwsn40   |                        |

| Offsets |      |           |     |             |                       |
|---------|------|-----------|-----|-------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description           |
| 82      | (52) | SIGNED    | 2   | trlopn40    |                       |
| 84      | (54) | SIGNED    | 4   | trlseqn40   | CP66 sequence number  |
| 88      | (58) | SIGNED    | 4   | trlrnrec40  | nbr of path recalc    |
| 92      | (5C) | CHARACTER | 1   | trltrg40    | path recalc trigger   |
| 93      | (5D) | BITSTRING | 1   | trlflag40   | flags                 |
|         |      | 1... ..   |     | trlCPchgd40 | critical path changed |
|         |      | .111 1111 |     | *           | reserved              |
| 94      | (5E) | CHARACTER | 10  | trlrec40    | last recalculation    |
| 94      | (5E) | CHARACTER | 6   | trlrec40D   | date                  |
| 100     | (64) | CHARACTER | 4   | trlrec40T   | time                  |
| 104     | (68) | CHARACTER | 4   | trltype40   | req type DELADDUPD    |

## TRL 41 TZONE EXIT EVENT

| Offsets |      |           |     |            |                     |
|---------|------|-----------|-----|------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description         |
| 52      | (34) | STRUCTURE | 40  | trlbdy41   | body of TZONE event |
| 52      | (34) | CHARACTER | 16  | trlaid41   | ad id for op        |
| 68      | (44) | CHARACTER | 10  | trlia41    | occ input arrival   |
| 78      | (4E) | SIGNED    | 2   | trlTZOFF41 | TZone offset        |
| 80      | (50) | CHARACTER | 12  | *          | free                |

## TRL 42 ADDDEL OPERATION JTB EVENT

| Offsets |      |           |     |            |                    |
|---------|------|-----------|-----|------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description        |
| 52      | (34) | STRUCTURE | 40  | trlbdy42   | body of event info |
| 52      | (34) | CHARACTER | 16  | trladi42   | aoccurrence number |
| 68      | (44) | CHARACTER | 10  | trlia42    |                    |
| 68      | (44) | CHARACTER | 6   | trliad42   |                    |
| 74      | (4A) | CHARACTER | 4   | trliat42   |                    |
| 78      | (4E) | CHARACTER | 6   | trloid42   |                    |
| 78      | (4E) | CHARACTER | 4   | trlwsn42   |                    |
| 82      | (52) | SIGNED    | 2   | trlopn42   |                    |
| 84      | (54) | BITSTRING | 1   | trlflags42 | JTB flag           |
|         |      | 1... ..   |     | trlinJTB42 | in JTBL            |
|         |      | .111 1111 |     | *          | free               |
| 85      | (55) | CHARACTER | 7   | *          | free               |

TRL 43 reserved for trl409 count

TRL 44 CHANGE STATUS OF SIMPLE COND MCP

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 98  | trlbdy44   |             |
| 52      | (34) | CHARACTER | 16  | trladi44   | Adid        |
| 68      | (44) | CHARACTER | 10  | trlia44    | IA          |
| 68      | (44) | CHARACTER | 6   | trliad44   |             |
| 74      | (4A) | CHARACTER | 4   | trliat44   |             |
| 78      | (4E) | SIGNED    | 2   | trlOpno44  | opnum       |
| 80      | (50) | SIGNED    | 2   | trlCid44   | Cond Id     |

| Offsets |      |           |     |                 |                |
|---------|------|-----------|-----|-----------------|----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description    |
| 82      | (52) | SIGNED    | 2   | trl44PredOp     | Pred opno      |
| 84      | (54) | CHARACTER | 16  | trl44PredAd     | Pred adid      |
| 100     | (64) | CHARACTER | 10  | trl44PredIA     | Pred IA        |
| 110     | (6E) | CHARACTER | 1   | trl44PredDep    | Int Ext        |
| 111     | (6F) | CHARACTER | 2   | trl44PredTyp    | RC ST          |
| 113     | (71) | CHARACTER | 2   | trl44PredLog    | LT,LE,GE,GT... |
| 115     | (73) | CHARACTER | 4   | trl44PredValrc  | rc value       |
| 119     | (77) | CHARACTER | 4   | trl44PredValrc2 | rc2 value      |
| 123     | (7B) | CHARACTER | 1   | trl44PredValst  | Status value   |
| 124     | (7C) | CHARACTER | 1   | trlOldSt44      | Simple old val |
| 125     | (7D) | CHARACTER | 1   | trlNewSt44      | Simple new val |
| 126     | (7E) | CHARACTER | 2   | trlCaller44     | Caller MCEM    |
| 128     | (80) | CHARACTER | 8   | trlStepN44      | Step name      |
| 136     | (88) | CHARACTER | 8   | trlProcS44      | Proc step      |
| 144     | (90) | CHARACTER | 6   | *               | free           |

## TRL 45 CHANGE STATUS OF COMPLEX COND MCP

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 42  | trlbdy45   |             |
| 52      | (34) | CHARACTER | 16  | trladi45   | Adid        |
| 68      | (44) | CHARACTER | 10  | trlia45    | IA          |
| 68      | (44) | CHARACTER | 6   | trliad45   |             |
| 74      | (4A) | CHARACTER | 4   | trliat45   |             |
| 78      | (4E) | SIGNED    | 2   | trlOpno45  | opnum       |



| Offsets |      |           |     |             |             |
|---------|------|-----------|-----|-------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description |
| 80      | (50) | SIGNED    | 2   | trlCid45    | Cond Id     |
| 82      | (52) | CHARACTER | 1   | trlOldSt45  | old status  |
| 83      | (53) | CHARACTER | 1   | trlNewSt45  | new status  |
| 84      | (54) | CHARACTER | 2   | trlCaller45 | Caller MC   |
| 86      | (56) | CHARACTER | 8   | *           | free        |

TRL 46 AD cond dep table auto succ resol event

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 52      | (34) | STRUCTURE | *   | trlbdy46   | body of ad cond table event |
| 52      | (34) | CHARACTER | *   | trlcnd46   | mapped by dclconrc          |

TRL 47 missing A3S event in cond evaluation event

| Offsets |      |           |     |            |               |
|---------|------|-----------|-----|------------|---------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description   |
| 52      | (34) | STRUCTURE | 102 | trlbdy47   | missing event |
| 52      | (34) | CHARACTER | 16  | trladi47   | Adid          |
| 68      | (44) | CHARACTER | 10  | trlia47    | IA            |
| 68      | (44) | CHARACTER | 6   | trliad47   | date          |
| 74      | (4A) | CHARACTER | 4   | trliat47   | time          |
| 78      | (4E) | SIGNED    | 2   | trlOpno47  | opnum         |
| 80      | (50) | SIGNED    | 2   | trlCid47   | Cond Id       |

| Offsets |      |           |     |                 |                |
|---------|------|-----------|-----|-----------------|----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description    |
| 82      | (52) | SIGNED    | 2   | trl47PredOp     | Pred opno      |
| 84      | (54) | CHARACTER | 16  | trl47PredAd     | Pred adid      |
| 100     | (64) | CHARACTER | 10  | trl47PredIA     | Pred IA        |
| 110     | (6E) | CHARACTER | 1   | trl47PredDep    | Int Ext        |
| 111     | (6F) | CHARACTER | 2   | trl47PredTyp    | RC ST          |
| 113     | (71) | CHARACTER | 2   | trl47PredLog    | LT,LE,GE,GT... |
| 115     | (73) | CHARACTER | 4   | trl47PredValrc  | rc value       |
| 119     | (77) | CHARACTER | 4   | trl47PredValrc2 | rc2 value      |
| 123     | (7B) | CHARACTER | 1   | trl47PredValst  | Status value   |
| 124     | (7C) | CHARACTER | 2   | trlCaller47     | Caller MCEM    |
| 126     | (7E) | CHARACTER | 8   | trlStepN47      | Step name      |
| 134     | (86) | CHARACTER | 8   | trlProcS47      | Proc Step      |
| 142     | (8E) | CHARACTER | 1   | trlMiss47       | Missing event  |
| 143     | (8F) | CHARACTER | 8   | trlJobNm47      | jobname        |
| 151     | (97) | CHARACTER | 3   | *               | free           |

TRL 48 recovered by cond event only fpr monitoring

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 40  | trlbdy48   |             |
| 52      | (34) | CHARACTER | 16  | trladi48   |             |
| 68      | (44) | CHARACTER | 10  | trlia48    |             |
| 68      | (44) | CHARACTER | 6   | trliad48   |             |
| 74      | (4A) | CHARACTER | 4   | trliat48   |             |
| 78      | (4E) | CHARACTER | 6   | trloid48   |             |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 78      | (4E) | CHARACTER | 4   | trlwsn48   |             |
| 82      | (52) | SIGNED    | 2   | trlopn48   |             |
| 84      | (54) | CHARACTER | 3   | trllcall48 |             |
| 87      | (57) | CHARACTER | 5   | *          |             |

TRL 49 A3S match in cond event missno

| Offsets |      |           |     |                 |                |
|---------|------|-----------|-----|-----------------|----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description    |
| 52      | (34) | STRUCTURE | 102 | trlbdy49        | missing event  |
| 52      | (34) | CHARACTER | 16  | trladi49        | Adid           |
| 68      | (44) | CHARACTER | 10  | trlia49         | IA             |
| 68      | (44) | CHARACTER | 6   | trliad49        | date           |
| 74      | (4A) | CHARACTER | 4   | trliat49        | time           |
| 78      | (4E) | SIGNED    | 2   | trlOpno49       | opnum          |
| 80      | (50) | SIGNED    | 2   | trlCid49        | Cond Id        |
| 82      | (52) | SIGNED    | 2   | trl49PredOp     | Pred opno      |
| 84      | (54) | CHARACTER | 16  | trl49PredAd     | Pred adid      |
| 100     | (64) | CHARACTER | 10  | trl49PredIA     | Pred IA        |
| 110     | (6E) | CHARACTER | 1   | trl49PredDep    | Int Ext        |
| 111     | (6F) | CHARACTER | 2   | trl49PredTyp    | RC ST          |
| 113     | (71) | CHARACTER | 2   | trl49PredLog    | LT,LE,GE,GT... |
| 115     | (73) | CHARACTER | 4   | trl49PredValrc  | rc value       |
| 119     | (77) | CHARACTER | 4   | trl49PredValrc2 | rc2 value      |
| 123     | (7B) | CHARACTER | 1   | trl49PredValst  | Status value   |
| 124     | (7C) | CHARACTER | 2   | trlCaller49     | Caller MCEM    |

| Offsets |      |           |     |             |              |
|---------|------|-----------|-----|-------------|--------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description  |
| 126     | (7E) | CHARACTER | 8   | trlStepN49  | Step name    |
| 134     | (86) | CHARACTER | 8   | trlProcS49  | Proc Step    |
| 142     | (8E) | CHARACTER | 1   | trlMissNO49 | MissNO event |
| 143     | (8F) | CHARACTER | 8   | trlJobNm49  | jobname      |
| 151     | (97) | CHARACTER | 3   | *           | free         |

## TRL 50 unexpected RC

| Offsets |      |           |     |              |                    |
|---------|------|-----------|-----|--------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description        |
| 52      | (34) | STRUCTURE | 73  | trlbdy50     |                    |
| 52      | (34) | CHARACTER | 16  | trladi50     |                    |
| 68      | (44) | CHARACTER | 10  | trlia50      |                    |
| 68      | (44) | CHARACTER | 6   | trliad50     |                    |
| 74      | (4A) | CHARACTER | 4   | trliat50     |                    |
| 78      | (4E) | CHARACTER | 6   | trlold50     |                    |
| 78      | (4E) | CHARACTER | 4   | trlwsn50     |                    |
| 82      | (52) | SIGNED    | 2   | trlopn50     |                    |
| 84      | (54) | CHARACTER | 3   | trlcaller50  |                    |
| 87      | (57) | CHARACTER | 1   | trlType50    | Y N                |
| 88      | (58) | CHARACTER | 8   | trlJobname50 | jobname            |
| 96      | (60) | CHARACTER | 8   | trlJobid50   | jobid              |
| 104     | (68) | CHARACTER | 8   | trlSTEP50    | step name          |
| 112     | (70) | CHARACTER | 8   | trlPSTEP50   | proc step name     |
| 120     | (78) | CHARACTER | 1   | trlStepEnd50 | step end event Y N |
| 121     | (79) | CHARACTER | 1   | trlStatus50  | oper status        |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 122     | (7A) | CHARACTER | 3   | *          |             |

TRL 51 Audit trail record access EQQJBLIB member

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 52      | (34) | STRUCTURE | *   | TRLBDY51A  | joblib jcl log record  |
| 52      | (34) | CHARACTER | 76  | TRLBDY51   | record data            |
| 52      | (34) | UNSIGNED  | 4   | TRLKLN51   | size of key            |
| 56      | (38) | UNSIGNED  | 4   | TRLREC51   | amount of data this re |
| 60      | (3C) | CHARACTER | 4   | TRLFIL51   | logical file name      |
| 64      | (40) | CHARACTER | 1   | TRLACC51   | access type(r,u,i,d)   |
| 65      | (41) | BITSTRING | 3   | TRLRSV51   | filler                 |
| 68      | (44) | CHARACTER | 52  | TRLKEY51   | job library            |
| 68      | (44) | CHARACTER | 44  | TRLLIB51   | job library            |
| 112     | (70) | CHARACTER | 8   | TRLMEM51   | jcl member             |
| 120     | (78) | CHARACTER | 8   | *          | reserved               |
| 128     | (80) | CHARACTER | *   | TRLDAT51   | record data            |

TRL 52 LOG XD02 VSAM RECORD CHANGES INVOLVING  
LTP OR NMM

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | *   | trlbdy52   |             |

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | SIGNED    | 4   | trlsiz52   | xd02len     |
| 56      | (38) | CHARACTER | *   | trldata52  | xd02 record |

TRL 53 NOERROR match occurred for operation

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 92  | trlbdy53   |             |
| 52      | (34) | CHARACTER | 16  | trladi53   |             |
| 68      | (44) | CHARACTER | 10  | trlia53    |             |
| 68      | (44) | CHARACTER | 6   | trliad53   |             |
| 74      | (4A) | CHARACTER | 4   | trliat53   |             |
| 78      | (4E) | SIGNED    | 2   | trlopnum53 |             |
| 80      | (50) | CHARACTER | 4   | trlws53    |             |
| 84      | (54) | CHARACTER | 8   | trljob53   |             |
| 92      | (5C) | CHARACTER | 8   | trljid53   |             |
| 100     | (64) | CHARACTER | 41  | trlstmt53  |             |
| 141     | (8D) | CHARACTER | 3   | *          |             |

TRL 54 NOERROR proc skip for operation

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 34  | trlbdy54   |             |

| Offsets |      |           |     |             |             |
|---------|------|-----------|-----|-------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description |
| 52      | (34) | CHARACTER | 16  | trladi54    |             |
| 68      | (44) | CHARACTER | 10  | trlia54     |             |
| 68      | (44) | CHARACTER | 6   | trliad54    |             |
| 74      | (4A) | CHARACTER | 4   | trliat54    |             |
| 78      | (4E) | SIGNED    | 2   | trlopnum54  |             |
| 80      | (50) | CHARACTER | 4   | trlws54     |             |
| 84      | (54) | 1... ..   |     | trlNESkip54 |             |
|         |      | .111 1111 |     | *           |             |
| 85      | (55) | CHARACTER | 1   | *           |             |

TRL 55 Externally submitted job trl that acts in place of lj1

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 42  | trlbdy55   |             |
| 52      | (34) | CHARACTER | 16  | trladi55   |             |
| 68      | (44) | CHARACTER | 10  | trlia55    |             |
| 68      | (44) | CHARACTER | 6   | trliad55   |             |
| 74      | (4A) | CHARACTER | 4   | trliat55   |             |
| 78      | (4E) | SIGNED    | 2   | trlopnum55 |             |
| 80      | (50) | CHARACTER | 8   | trljobid55 |             |
| 88      | (58) | CHARACTER | 6   | *          |             |

TRL 60 RESET TRL SEQNO

| Offsets |      |           |     |               |                                                      |
|---------|------|-----------|-----|---------------|------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)    | Description                                          |
| 52      | (34) | STRUCTURE | 20  | trlbdy60      |                                                      |
| 52      | (34) | CHARACTER | 8   | trl60curCPdd  | current CP DD                                        |
| 60      | (3C) | CHARACTER | 8   | trl60curCPtod | current CP tod                                       |
| 68      | (44) | CHARACTER | 4   | trl60reason   | NCP turnover new plan LTP LTP extend<br>SYNC re-sync |

## TRL 61 SUSPENDED BACKUP CONTROLLER EVENT

| Offsets |      |           |     |            |                   |
|---------|------|-----------|-----|------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description       |
| 52      | (34) | STRUCTURE | 20  | trlbdy61   |                   |
| 52      | (34) | CHARACTER | 2   | trlrctyp61 | orig TRL type     |
| 54      | (36) | CHARACTER | 2   | *          | free              |
| 56      | (38) | CHARACTER | 8   | trlCPtod61 | dqeJTX CP tod     |
| 64      | (40) | CHARACTER | 8   | trlLTtod61 | dqeJTX LT tod     |
| 72      | (48) | CHARACTER |     | trlvar61   | appended orig TRL |

## TRL 62 PLAN TRANSFER START END

| Offsets |      |           |     |            |             |
|---------|------|-----------|-----|------------|-------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description |
| 52      | (34) | STRUCTURE | 54  | trlbdy62   |             |
| 52      | (34) | UNSIGNED  | 2   | trlrunCP62 | CP run      |
| 54      | (36) | CHARACTER | 8   | trltodCP62 | CP tod      |
| 62      | (3E) | UNSIGNED  | 2   | trlrunLT62 | LTP run     |



| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 64      | (40) | CHARACTER | 8   | trltodLT62 | LTP tod                |
| 72      | (48) | CHARACTER | 8   | trltype62  | START END              |
| 80      | (50) | CHARACTER | 4   | trlfile62  | file type (LTP, CP ..) |
| 84      | (54) | SIGNED    | 4   | trlrcode62 | job rc                 |
| 88      | (58) | CHARACTER | 8   | trljobnm62 | job name               |
| 96      | (60) | CHARACTER | 8   | trljobid62 | job id                 |
| 104     | (68) | CHARACTER | 1   | trlcan62   | cancelled Y N          |
| 105     | (69) | CHARACTER | 1   | trlLTPonly | Y N                    |

## TRL 63 START END JT RESEND

| Offsets |      |           |     |              |                           |
|---------|------|-----------|-----|--------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description               |
| 52      | (34) | STRUCTURE | 32  | trlbdy63     |                           |
| 52      | (34) | UNSIGNED  | 2   | trlrunCP63   | CP run number             |
| 54      | (36) | CHARACTER | 8   | trltodCP63   | CP tod                    |
| 62      | (3E) | UNSIGNED  | 2   | trlrunLT63   | LT run number             |
| 64      | (40) | CHARACTER | 8   | trltodLT63   | LT tod                    |
| 72      | (48) | CHARACTER | 5   | trltype63    | START or END              |
| 77      | (4D) | CHARACTER | 1   | trlJTlost63  | Y or N                    |
| 78      | (4E) | CHARACTER | 2   | *            |                           |
| 80      | (50) | UNSIGNED  | 4   | trlfromSEQNO | resend JT from this seqno |

## TRL 64 LOG EDP TABLE for BACKUP CONTROLLER

| Offsets |      |           |     |            |                     |
|---------|------|-----------|-----|------------|---------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description         |
| 52      | (34) | STRUCTURE | *   | trlbdy64   | log data            |
| 52      | (34) | CHARACTER | 4   | trltyp64   | 'EDPB'              |
| 56      | (38) | SIGNED    | 4   | trlsize64  | size of data logged |
| 60      | (3C) | CHARACTER | *   | trldata64  | data part           |

## TRL 65 RESUME EVENT

| Offsets |      |           |     |                 |                       |
|---------|------|-----------|-----|-----------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)      | Description           |
| 52      | (34) | STRUCTURE | 48  | trlbdy65        | resume event          |
| 52      | (34) | CHARACTER | 16  | trlprev65       | BKQPR prev last event |
| 52      | (34) | CHARACTER | 2   | trlprevTYP65    |                       |
| 54      | (36) | UNSIGNED  | 2   | trlprevBDW65    |                       |
| 56      | (38) | CHARACTER | 4   | trlprevEVDAT65  |                       |
| 60      | (3C) | UNSIGNED  | 4   | trlprevEVTIM65  |                       |
| 64      | (40) | UNSIGNED  | 4   | trlprevSEQNO65  |                       |
| 68      | (44) | CHARACTER | 16  | trlfirst65      | BKQPR first event     |
| 68      | (44) | CHARACTER | 2   | trlfirstTYP65   |                       |
| 70      | (46) | UNSIGNED  | 2   | trlfirstBDW65   |                       |
| 72      | (48) | CHARACTER | 4   | trlfirstEVDAT65 |                       |
| 76      | (4C) | UNSIGNED  | 4   | trlfirstEVTIM65 |                       |
| 80      | (50) | UNSIGNED  | 4   | trlfirstSEQNO65 |                       |
| 84      | (54) | CHARACTER | 16  | trllast65       | BKQPR last event      |
| 84      | (54) | CHARACTER | 2   | trllastTYP65    |                       |
| 86      | (56) | UNSIGNED  | 2   | trllastBDW65    |                       |
| 88      | (58) | CHARACTER | 4   | trllastEVDAT65  |                       |

| Offsets |      |          |     |                |             |
|---------|------|----------|-----|----------------|-------------|
| Dec     | Hex  | Type     | Len | Name (Dim)     | Description |
| 92      | (5C) | UNSIGNED | 4   | trllastEVTIM65 |             |
| 96      | (60) | UNSIGNED | 4   | trllastSEQNO65 |             |

TRL 66 OPERATION EVENT Extended to replace trl23

| Offsets |      |           |     |            |                                                        |
|---------|------|-----------|-----|------------|--------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                            |
| 52      | (34) | STRUCTURE | 96  | trlbdy66   | body of operation event                                |
| 52      | (34) | CHARACTER | 16  | trladi66   | ad id for occurrence                                   |
| 68      | (44) | CHARACTER | 6   | trliad66   | mod input arr date                                     |
| 74      | (4A) | CHARACTER | 4   | trliat66   | mod input arr time                                     |
| 78      | (4E) | CHARACTER | 6   | trloid66   | operation id                                           |
| 78      | (4E) | CHARACTER | 4   | trlwsn66   | workstation name                                       |
| 82      | (52) | SIGNED    | 2   | trlopn66   | operation number                                       |
| 84      | (54) | CHARACTER | 1   | trlevt66   | new operation status or 'X' = reset status or X status |
| 85      | (55) | CHARACTER | 6   | trldur66   | reported duration                                      |
| 91      | (5B) | CHARACTER | 4   | trlerc66   | reported error code                                    |
| 95      | (5F) | CHARACTER | 1   | *          | various flags                                          |
|         |      | 1... .... |     | trlfdb66   | on = occ. is completed                                 |
|         |      | .1.. .... |     | trlbyp66   | on = bypass during restart                             |
|         |      | ..1. .... |     | trlman66   | on = status set manually (gs)                          |
|         |      | ...1 .... |     | trlX66     | on = status X set                                      |
|         |      | .... 1111 |     | *          | reserved                                               |
| 96      | (60) | CHARACTER | 16  | trlowi66   | owner id                                               |
| 112     | (70) | CHARACTER | 8   | trljbn66   | jobname                                                |

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 120     | (78) | UNSIGNED  | 4   | trldurs66  | duration in 100th*sec |
| 124     | (7C) | CHARACTER | 8   | trlready66 | start time wait opr   |
| 132     | (84) | CHARACTER | 1   | trlOldSt66 | Old Status            |
| 133     | (85) | CHARACTER | 15  | *          | start time wait opr   |

## TRL 67 EXTENDED AUDIT RECORD

| Offsets |      |           |     |            |                                                                               |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                   |
| 52      | (34) | STRUCTURE | *   | trlbdy67   | audit trail log record                                                        |
| 52      | (34) | CHARACTER | 96  | trlfix67   |                                                                               |
| 52      | (34) | SIGNED    | 2   | trlkln67   | size of key                                                                   |
| 54      | (36) | SIGNED    | 2   | trlrec67   | amount of data this record                                                    |
| 56      | (38) | SIGNED    | 4   | trltot67   | total data size                                                               |
| 60      | (3C) | CHARACTER | 8   | trltod67   | time of day                                                                   |
| 68      | (44) | CHARACTER | 4   | trlfil67   | logical file name                                                             |
| 72      | (48) | CHARACTER | 1   | trlacc67   | access type: R read access, U update access, I add a record, D record deleted |
| 73      | (49) | CHARACTER | 1   | trlseq67   | before/after                                                                  |
| 74      | (4A) | CHARACTER | 1   | trlfro67   | from ISPF or PIF                                                              |
| 75      | (4B) | CHARACTER | 9   | *          | reserved                                                                      |
| 84      | (54) | CHARACTER | 64  | trlkey67   | record key + blanks                                                           |
| 84      | (54) | CHARACTER | 28  | *          | reserved                                                                      |
| 112     | (70) | CHARACTER | 8   | trlrib67   | library read from                                                             |
| 120     | (78) | CHARACTER | 8   | trlmem67   | jcl member read                                                               |
| 128     | (80) | CHARACTER | 19  | *          | reserved                                                                      |

| Offsets |      |           |     |            |                      |
|---------|------|-----------|-----|------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description          |
| 147     | (93) | CHARACTER | 1   | trlchg67   | record changed SDSLA |
| 148     | (94) | CHARACTER | *   | trlvar67   |                      |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 12  | trlWRK     |             |
| 0       | (0) | ADDRESS   | 4   | trlWRKnxt  |             |
| 4       | (4) | CHARACTER | 2   | trlWRKtyp  |             |
| 6       | (6) | CHARACTER | 2   | *          |             |
| 8       | (8) | ADDRESS   | 4   | trlWRKeIP  |             |

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 12  | trlMCP     |             |
| 0       | (0) | ADDRESS   | 4   | trlMCPnxt  |             |
| 4       | (4) | CHARACTER | 2   | trlMCPtyp  |             |
| 6       | (6) | CHARACTER | 2   | *          |             |
| 8       | (8) | ADDRESS   | 4   | trlMCPeIP  |             |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| trlopdl28 | 5C         |           | 2     |
| trlopdu28 | 5E         |           | 2     |
| trlop28   | 60         |           | 2     |
| trlacc32  | 44         |           | 3     |
| TRLACC51  | 40         |           | 3     |
| trlact34  | 66         |           | 2     |
| trladi23  | 34         |           | 2     |
| trladi34  | 4C         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| trladi40   | 34         |           | 2     |
| trladi42   | 34         |           | 2     |
| trladi44   | 34         |           | 2     |
| trladi45   | 34         |           | 2     |
| trladi47   | 34         |           | 2     |
| trladi48   | 34         |           | 2     |
| trladi49   | 34         |           | 2     |
| trladi50   | 34         |           | 2     |
| trladi53   | 34         |           | 2     |
| trladi54   | 34         |           | 2     |
| trladi55   | 34         |           | 2     |
| trladi66   | 34         |           | 2     |
| trladld27  | 68         |           | 3     |
| trladld28  | 54         |           | 3     |
| trladlt27  | 6E         |           | 3     |
| trladlt28  | 56         |           | 3     |
| trladl27   | 68         |           | 2     |
| trladl28   | 54         |           | 2     |
| trladu27   | 58         |           | 2     |
| trladu28   | 6C         |           | 3     |
| trlaid25   | 34         |           | 2     |
| trlaid26   | 34         |           | 2     |
| trlaid27   | 34         |           | 2     |
| trlaid28   | 34         |           | 2     |
| trlaid33   | 34         |           | 2     |
| trlaid38   | 34         |           | 2     |
| trlaid41   | 34         |           | 2     |
| trlaltws25 | 80         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| trIARinfo  | 50         |           | 2     |
| trIARpStep | 5C         |           | 3     |
| trIARstep  | 54         |           | 3     |
| trIARstn   | 50         |           | 3     |
| trIbdw     | 2          |           | 3     |
| trIbdy20   | 34         |           | 1     |
| trIbdy23   | 34         |           | 1     |
| trIbdy24   | 34         |           | 1     |
| trIbdy25   | 34         |           | 1     |
| trIbdy26   | 34         |           | 1     |
| trIbdy27   | 34         |           | 1     |
| trIbdy28   | 34         |           | 1     |
| trIbdy29   | 34         |           | 1     |
| trIbdy30   | 34         |           | 1     |
| trIbdy31   | 34         |           | 1     |
| trIbdy32   | 34         |           | 1     |
| trIbdy33   | 34         |           | 1     |
| trIbdy34   | 34         |           | 1     |
| trIbdy35   | 34         |           | 1     |
| trIbdy36   | 34         |           | 1     |
| trIbdy37   | 34         |           | 1     |
| trIbdy38   | 34         |           | 1     |
| trIbdy39   | 34         |           | 1     |
| trIbdy40   | 34         |           | 1     |
| trIbdy41   | 34         |           | 1     |
| trIbdy42   | 34         |           | 1     |
| trIbdy44   | 34         |           | 1     |
| trIbdy45   | 34         |           | 1     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| trlbdy46    | 34         |           | 1     |
| trlbdy47    | 34         |           | 1     |
| trlbdy48    | 34         |           | 1     |
| trlbdy49    | 34         |           | 1     |
| trlbdy50    | 34         |           | 1     |
| TRLBDY51    | 34         |           | 2     |
| TRLBDY51A   | 34         |           | 1     |
| trlbdy52    | 34         |           | 1     |
| trlbdy53    | 34         |           | 1     |
| trlbdy54    | 34         |           | 1     |
| trlbdy55    | 34         |           | 1     |
| trlbdy60    | 34         |           | 1     |
| trlbdy61    | 34         |           | 1     |
| trlbdy62    | 34         |           | 1     |
| trlbdy63    | 34         |           | 1     |
| trlbdy64    | 34         |           | 1     |
| trlbdy65    | 34         |           | 1     |
| trlbdy66    | 34         |           | 1     |
| trlBKPT     | 3          | 08        | 5     |
| trlbypass   | 3          | 20        | 5     |
| trlbyp23    | 5F         | 40        | 3     |
| trlbyp66    | 5F         | 40        | 3     |
| trlCaller44 | 7E         |           | 2     |
| trlCaller45 | 54         |           | 2     |
| trlCaller47 | 7C         |           | 2     |
| trlcaller48 | 54         |           | 2     |
| trlCaller49 | 7C         |           | 2     |
| trlcaller50 | 54         |           | 2     |



| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| trlcan62    | 68         |           | 2     |
| trlcat34    | A3         |           | 2     |
| trlchg30    | 36         | 40        | 3     |
| trlchg32    | 87         |           | 4     |
| trlCid44    | 50         |           | 2     |
| trlCid45    | 50         |           | 2     |
| trlCid47    | 50         |           | 2     |
| trlCid49    | 50         |           | 2     |
| trlckptr    | 3          | 80        | 5     |
| trlckptr_o  | 30         | 80        | 5     |
| trlcnd46    | 34         |           | 2     |
| trlcnt35    | 44         |           | 3     |
| trlcom      | 0          |           | 2     |
| trlCPchgd40 | 5D         | 80        | 3     |
| trlcpdd36   | 34         |           | 2     |
| trlcpeut    | 14         |           | 5     |
| trlcpkey    | 14         |           | 3     |
| trlCPtod61  | 38         |           | 2     |
| trlcyc30    | 40         |           | 3     |
| trlcyc35    | 54         |           | 3     |
| trlcyc39    | 4C         |           | 3     |
| trldata37   | 3C         |           | 2     |
| trldata52   | 38         |           | 2     |
| trldata64   | 3C         |           | 2     |
| trldat32    | 88         |           | 3     |
| TRLDAT51    | 80         |           | 2     |
| trlddn25    | 56         |           | 2     |
| trlddn34    | 6F         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| trldpa35    | 36         | 80        | 3     |
| trldpa39    | 34         | 80        | 3     |
| trldsn34    | 77         |           | 2     |
| trldurs23   | 78         |           | 2     |
| trldurs66   | 78         |           | 2     |
| trldur23    | 55         |           | 2     |
| trldur66    | 55         |           | 2     |
| trledld27   | 62         |           | 3     |
| trledlt27   | 64         |           | 3     |
| trledl27    | 62         |           | 2     |
| trledu27    | 54         |           | 2     |
| trlerc23    | 5B         |           | 2     |
| trlerc66    | 5B         |           | 2     |
| trletc31    | 36         |           | 2     |
| trlevdat    | C          |           | 3     |
| trlevtim    | 10         |           | 3     |
| trlevt23    | 54         |           | 2     |
| trlevt66    | 54         |           | 2     |
| trlexit13rc | 6E         | 20        | 3     |
| trlexr29    | 35         |           | 2     |
| trlexsr30   | 48         |           | 2     |
| trlexs30    | 38         |           | 1     |
| trlfdb23    | 5F         | 80        | 3     |
| trlfdb66    | 5F         | 80        | 3     |
| trlfile62   | 50         |           | 2     |
| trlfill     | 27         |           | 3     |
| trlfill2    | 3          |           | 4     |
| trlfill2_o  | 30         |           | 4     |

| Name               | Hex Offset | Hex Value | Level |
|--------------------|------------|-----------|-------|
| trlfil32           | 40         |           | 3     |
| TRLFIL51           | 3C         |           | 3     |
| trlfirfirst        | 27         | 80        | 4     |
| trlfirfirstBDW65   | 46         |           | 3     |
| trlfirfirstEVDAT65 | 48         |           | 3     |
| trlfirfirstEVTIM65 | 4C         |           | 3     |
| trlfirfirstSEQNO65 | 50         |           | 3     |
| trlfirfirstTYP65   | 44         |           | 3     |
| trlfirfirst65      | 44         |           | 2     |
| trlFIX32           | 34         |           | 2     |
| trlFlag            | 6E         |           | 2     |
| trlflags42         | 54         |           | 2     |
| trlflag40          | 5D         |           | 2     |
| trlfla30           | 36         |           | 2     |
| trlfl135           | 36         |           | 2     |
| trlfl139           | 34         |           | 2     |
| trlfromBKP         | 3          | 01        | 5     |
| trlfromSEQNO       | 50         |           | 2     |
| trlFsent           | 3          | 02        | 5     |
| trlgmtof           | 2C         |           | 3     |
| trliad23           | 44         |           | 2     |
| trliad25           | 44         |           | 3     |
| trliad27           | 44         |           | 2     |
| trliad28           | 44         |           | 2     |
| trliad33           | 44         |           | 3     |
| trliad40           | 44         |           | 3     |
| trliad42           | 44         |           | 3     |
| trliad44           | 44         |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| trliad45 | 44         |           | 3     |
| trliad47 | 44         |           | 3     |
| trliad48 | 44         |           | 3     |
| trliad49 | 44         |           | 3     |
| trliad50 | 44         |           | 3     |
| trliad53 | 44         |           | 3     |
| trliad54 | 44         |           | 3     |
| trliad55 | 44         |           | 3     |
| trliad66 | 44         |           | 2     |
| trliat23 | 4A         |           | 2     |
| trliat25 | 4A         |           | 3     |
| trliat27 | 4A         |           | 2     |
| trliat28 | 4A         |           | 2     |
| trliat33 | 4A         |           | 3     |
| trliat34 | 5C         |           | 2     |
| trliat40 | 4A         |           | 3     |
| trliat42 | 4A         |           | 3     |
| trliat44 | 4A         |           | 3     |
| trliat45 | 4A         |           | 3     |
| trliat47 | 4A         |           | 3     |
| trliat48 | 4A         |           | 3     |
| trliat49 | 4A         |           | 3     |
| trliat50 | 4A         |           | 3     |
| trliat53 | 4A         |           | 3     |
| trliat54 | 4A         |           | 3     |
| trliat55 | 4A         |           | 3     |
| trliat66 | 4A         |           | 2     |
| trlia25  | 44         |           | 2     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| trlia26      | 44         |           | 2     |
| trlia33      | 44         |           | 2     |
| trlia38      | 44         |           | 2     |
| trlia40      | 44         |           | 2     |
| trlia41      | 44         |           | 2     |
| trlia42      | 44         |           | 2     |
| trlia44      | 44         |           | 2     |
| trlia45      | 44         |           | 2     |
| trlia47      | 44         |           | 2     |
| trlia48      | 44         |           | 2     |
| trlia49      | 44         |           | 2     |
| trlia50      | 44         |           | 2     |
| trlia53      | 44         |           | 2     |
| trlia54      | 44         |           | 2     |
| trlia55      | 44         |           | 2     |
| trlinJTB42   | 54         | 80        | 3     |
| trljbn23     | 70         |           | 2     |
| trljbn66     | 70         |           | 2     |
| trljid25     | 4E         |           | 2     |
| trljid34     | 3C         |           | 2     |
| trljid53     | 5C         |           | 2     |
| trljnm25     | 5E         |           | 2     |
| trljnm34     | 34         |           | 2     |
| trlJobid50   | 60         |           | 2     |
| trljobid55   | 50         |           | 2     |
| trljobid62   | 60         |           | 2     |
| trlJobname50 | 58         |           | 2     |
| trlJobNm47   | 8F         |           | 2     |

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| trlJobNm49     | 8F         |           | 2     |
| trljobnm62     | 58         |           | 2     |
| trljob53       | 54         |           | 2     |
| trljrnf1       | 27         | 01        | 4     |
| trljrpf1       | 27         | 04        | 4     |
| trljtddOCP36   | 44         |           | 2     |
| trljtdd36      | 3C         |           | 2     |
| trIJTid        | 2          |           | 4     |
| trIJTlost63    | 4D         |           | 2     |
| trljtwho36     | 4D         |           | 2     |
| trlkey32       | 48         |           | 3     |
| TRLKEY51       | 44         |           | 3     |
| trlkln32       | 34         |           | 3     |
| TRLKLN51       | 34         |           | 3     |
| trllost        | 27         | 40        | 4     |
| trllostBDW65   | 56         |           | 3     |
| trllostEVDAT65 | 58         |           | 3     |
| trllostEVTIM65 | 5C         |           | 3     |
| trllostSEQNO65 | 60         |           | 3     |
| trllostTYP65   | 54         |           | 3     |
| trllost65      | 54         |           | 2     |
| trlengt        | 28         |           | 3     |
| trllib32       | 64         |           | 4     |
| TRLLIB51       | 44         |           | 4     |
| trllim35       | 48         |           | 3     |
| trllim39       | 40         |           | 3     |
| trllogid       | 7          |           | 3     |
| trlLTPonly     | 69         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| trILTtod61  | 40         |           | 2     |
| trlman23    | 5F         | 20        | 3     |
| trlman66    | 5F         | 20        | 3     |
| trIMCP      | 0          |           | 1     |
| trIMCPelP   | 8          |           | 2     |
| trIMCPnxt   | 0          |           | 2     |
| trIMCPtyp   | 4          |           | 2     |
| trlmcp35    | 48         |           | 2     |
| trlmcp39    | 40         |           | 2     |
| trlmem32    | 6C         |           | 4     |
| TRLMEM51    | 70         |           | 4     |
| trlMissNO49 | 8E         |           | 2     |
| trlMiss47   | 8E         |           | 2     |
| trlmjs35    | 40         |           | 2     |
| trlmod20    | 34         |           | 2     |
| trlmsg33    | 4E         |           | 2     |
| trlmt024    | 34         |           | 2     |
| trlnam33    | 4F         |           | 2     |
| trlNESkip54 | 54         | 80        | 2     |
| trlNewSt44  | 7D         |           | 2     |
| trlNewSt45  | 53         |           | 2     |
| trlnode30   | 38         |           | 2     |
| trlnode35   | 4C         |           | 2     |
| trlnode39   | 44         |           | 2     |
| trlnod34    | 44         |           | 2     |
| trlodld28   | 4E         |           | 3     |
| trlodlt28   | 50         |           | 3     |
| trlodl28    | 4E         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| trlodu28    | 68         |           | 3     |
| trloid23    | 4E         |           | 2     |
| trloid27    | 4E         |           | 2     |
| trloid40    | 4E         |           | 2     |
| trloid42    | 4E         |           | 2     |
| trloid48    | 4E         |           | 2     |
| trloid50    | 4E         |           | 2     |
| trloid66    | 4E         |           | 2     |
| trloldcp    | 27         | 02        | 4     |
| trlOldSt44  | 7C         |           | 2     |
| trlOldSt45  | 52         |           | 2     |
| trlOldSt66  | 84         |           | 2     |
| trlopadd28  | 76         |           | 4     |
| trlopaddt28 | 78         |           | 4     |
| trlopaddl28 | 76         |           | 3     |
| trlopc      | 4          |           | 3     |
| trlopi28    | 62         |           | 3     |
| trlOpno44   | 4E         |           | 2     |
| trlOpno45   | 4E         |           | 2     |
| trlOpno47   | 4E         |           | 2     |
| trlOpno49   | 4E         |           | 2     |
| trlopnum53  | 4E         |           | 2     |
| trlopnum54  | 4E         |           | 2     |
| trlopnum55  | 4E         |           | 2     |
| trlopn23    | 52         |           | 3     |
| trlopn40    | 52         |           | 3     |
| trlopn42    | 52         |           | 3     |
| trlopn48    | 52         |           | 3     |



| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| trlopn50       | 52         |           | 3     |
| trlopn66       | 52         |           | 3     |
| trlopodld28    | 70         |           | 4     |
| trlopodlt28    | 72         |           | 4     |
| trlopodl28     | 70         |           | 3     |
| trlops28       | 62         |           | 2     |
| trlopt35       | 40         |           | 3     |
| trlorig27      | 5F         |           | 2     |
| trlowi23       | 60         |           | 2     |
| trlowi66       | 60         |           | 2     |
| trlpos30       | 40         |           | 2     |
| trlpos35       | 54         |           | 2     |
| trlpos39       | 4C         |           | 2     |
| trlprevBDW65   | 36         |           | 3     |
| trlprevEVDAT65 | 38         |           | 3     |
| trlprevEVTIM65 | 3C         |           | 3     |
| trlprevSEQN065 | 40         |           | 3     |
| trlprevTYP65   | 34         |           | 3     |
| trlprev65      | 34         |           | 2     |
| trlProcS44     | 88         |           | 2     |
| trlProcS47     | 86         |           | 2     |
| trlProcS49     | 86         |           | 2     |
| trlPSTEP50     | 70         |           | 2     |
| trlrcbdy       | 34         |           | 2     |
| trlrcode62     | 54         |           | 2     |
| trlrctyp       | 9          |           | 3     |
| trlrctyp61     | 34         |           | 2     |
| trlrcver       | B          |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| trldrn30   | 3C         |           | 2     |
| trldrn35   | 50         |           | 2     |
| trldrn39   | 48         |           | 2     |
| trlready23 | 7C         |           | 2     |
| trlready66 | 7C         |           | 2     |
| trlrec     | 0          |           | 1     |
| trlrec30   | 44         |           | 3     |
| trlrec35   | 58         |           | 3     |
| trlrec39   | 50         |           | 3     |
| trlrec32   | 36         |           | 3     |
| trlrec40   | 5E         |           | 2     |
| trlrec40D  | 5E         |           | 3     |
| trlrec40T  | 64         |           | 3     |
| TRLREC51   | 38         |           | 3     |
| trlrem32   | 3C         |           | 3     |
| trlreq30   | 35         |           | 2     |
| trlreq31   | 35         |           | 2     |
| trlrer25   | 6E         | 40        | 3     |
| trlresub   | 27         | 08        | 4     |
| trlres27   | 5E         |           | 2     |
| trlres35   | 34         |           | 2     |
| trlrid27   | 60         |           | 2     |
| trlrid28   | 5A         |           | 2     |
| trlrnrec40 | 58         |           | 2     |
| trlrsr30   | 38         |           | 2     |
| trlrsv32   | 45         |           | 3     |
| TRLRSV51   | 41         |           | 3     |
| trlrunCP62 | 34         |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| trIrunCP63    | 34         |           | 2     |
| trIrunLT62    | 3E         |           | 2     |
| trIrunLT63    | 3E         |           | 2     |
| trIlsa        | 3          | 40        | 5     |
| trIlsa_o      | 30         | 40        | 5     |
| trISEQNO      | 30         |           | 3     |
| trIseqn40     | 54         |           | 2     |
| trIsize       | 0          |           | 3     |
| trIsize37     | 38         |           | 2     |
| trIsize52     | 34         |           | 2     |
| trIsize64     | 38         |           | 2     |
| trIsrs30      | 36         | 80        | 3     |
| trIsseq       | 22         |           | 4     |
| trIStatus50   | 79         |           | 2     |
| trIstc        | 27         | 20        | 4     |
| trIStepEnd50  | 78         |           | 2     |
| trIStepN44    | 80         |           | 2     |
| trIStepN47    | 7E         |           | 2     |
| trIStepN49    | 7E         |           | 2     |
| trISTEP50     | 68         |           | 2     |
| trIstmt53     | 64         |           | 2     |
| trIstp34      | 67         |           | 2     |
| trIsubtoken25 | 78         |           | 2     |
| trITaskType25 | 6F         |           | 2     |
| trItodCP62    | 36         |           | 2     |
| trItodCP63    | 36         |           | 2     |
| trItodLT62    | 40         |           | 2     |
| trItodLT63    | 40         |           | 2     |

| Name          | Hex Offset | Hex Value | Level |
|---------------|------------|-----------|-------|
| trltok_full25 | 70         |           | 2     |
| trltok_pre25  | 70         |           | 3     |
| trltok25      | 74         |           | 3     |
| trltot32      | 38         |           | 3     |
| trltot35      | 4A         |           | 3     |
| trltot39      | 42         |           | 3     |
| trltrg40      | 5C         |           | 2     |
| trlTURNOV     | 3          | 10        | 5     |
| trltype40     | 68         |           | 2     |
| trlType50     | 57         |           | 2     |
| trltype62     | 48         |           | 2     |
| trltype63     | 48         |           | 2     |
| trltyp29      | 34         |           | 2     |
| trltyp30      | 34         |           | 2     |
| trltyp31      | 34         |           | 2     |
| trltyp37      | 34         |           | 2     |
| trltyp64      | 34         |           | 2     |
| trITZOFF41    | 4E         |           | 2     |
| trluser       | 1A         |           | 4     |
| trlusr25      | 66         |           | 2     |
| trlusr35      | 38         |           | 2     |
| trlusr39      | 38         |           | 2     |
| trlVAR32      | 88         |           | 2     |
| trlvar61      | 48         |           | 2     |
| trlWASUJ      | 6E         | 80        | 3     |
| trlWRK        | 0          |           | 1     |
| trlWRKeIP     | 8          |           | 2     |
| trlWRKnxt     | 0          |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| trlWRKtyp       | 4          |           | 2     |
| trlwsn23        | 4E         |           | 3     |
| trlwsn40        | 4E         |           | 3     |
| trlwsn42        | 4E         |           | 3     |
| trlwsn48        | 4E         |           | 3     |
| trlwsn50        | 4E         |           | 3     |
| trlwsn66        | 4E         |           | 3     |
| trlws53         | 50         |           | 2     |
| trlws54         | 50         |           | 2     |
| trlwto          | 27         | 10        | 4     |
| trlxst26        | 4E         |           | 2     |
| trlX23          | 5F         | 10        | 3     |
| trlX66          | 5F         | 10        | 3     |
| trl36filler     | 4C         |           | 2     |
| trl44PredAd     | 54         |           | 2     |
| trl44PredDep    | 6E         |           | 2     |
| trl44PredIA     | 64         |           | 2     |
| trl44PredLog    | 71         |           | 2     |
| trl44PredOp     | 52         |           | 2     |
| trl44PredTyp    | 6F         |           | 2     |
| trl44PredValrc  | 73         |           | 2     |
| trl44PredValrc2 | 77         |           | 2     |
| trl44PredValst  | 7B         |           | 2     |
| trl47PredAd     | 54         |           | 2     |
| trl47PredDep    | 6E         |           | 2     |
| trl47PredIA     | 64         |           | 2     |
| trl47PredLog    | 71         |           | 2     |
| trl47PredOp     | 52         |           | 2     |

| Name            | Hex Offset | Hex Value | Level |
|-----------------|------------|-----------|-------|
| trl47PredTyp    | 6F         |           | 2     |
| trl47PredValrc  | 73         |           | 2     |
| trl47PredValrc2 | 77         |           | 2     |
| trl47PredValst  | 7B         |           | 2     |
| trl49PredAd     | 54         |           | 2     |
| trl49PredDep    | 6E         |           | 2     |
| trl49PredIA     | 64         |           | 2     |
| trl49PredLog    | 71         |           | 2     |
| trl49PredOp     | 52         |           | 2     |
| trl49PredTyp    | 6F         |           | 2     |
| trl49PredValrc  | 73         |           | 2     |
| trl49PredValrc2 | 77         |           | 2     |
| trl49PredValst  | 7B         |           | 2     |
| trl60curCPdd    | 34         |           | 2     |
| trl60curCPtod   | 3C         |           | 2     |
| trl60reason     | 44         |           | 2     |

## WAP - Workstation analyzer parameters

### Example

Name : DCLWAP

Function:

This segment declares a workstation analyzer area. This control block is built, initialized, and freed by the workstation analyzer task.

| Offsets |     |           |     |            |                        |
|---------|-----|-----------|-----|------------|------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE | 344 | WAP        | WS ANALYZER PARAMETERS |
| 0       | (0) | CHARACTER | 4   | WAPDESC    | BLOCK DESCRIPTOR = WAP |
| 4       | (4) | CHARACTER | 2   | WAPVER     | BLOCK MAPPING VERSION  |
| 6       | (6) | BITSTRING | 2   | WAPFLAGS   | FLAGS                  |

| Offsets |      |           |     |            |                                             |
|---------|------|-----------|-----|------------|---------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                 |
|         |      | 1... ..   |     | WAPNOWT    | NO WAIT THIS TIME                           |
|         |      | .1... ..  |     | WAPSUBX    | CALL SUBUS EXIT                             |
|         |      | ..1. .... |     | WAPUX01    | UX02 RC NOT 0                               |
|         |      | ...1 .... |     | WAPSUBER   | ERROR IN SUBMISSION OF A CENTRALIZED SCRIPT |
|         |      | .... 1... |     | WAPSAERR   | ERROR RETURNED FROM SA EXIT                 |
|         |      | .... .1.. |     | WAPFAKESUB | FAKE SUBMISSION FOR PARALL                  |
| 8       | (8)  | BITSTRING | 4   | WAPTMECB   | TIMER ECB                                   |
| 12      | (C)  | ADDRESS   | 4   | WAPMCAP    | MCA ADDRESS                                 |
| 16      | (10) | ADDRESS   | 4   | WAPDOAP    | DOA ADDRESS                                 |
| 20      | (14) | ADDRESS   | 4   | WAPJBUF    | JOBLIB BUFFER ADDRESS                       |
| 24      | (18) | ADDRESS   | 4   | WAPEMPP    | EV MGR PARAMETER AREA                       |
| 28      | (1C) | ADDRESS   | 4   | WAPOPRP    | CURRENT OPER RECORD ADDR                    |
| 32      | (20) | ADDRESS   | 4   | WAPJCLB    | JCL RECORD BUFFER, <16M                     |
| 36      | (24) | SIGNED    | 4   | WAPJSIZE   | MAXIMUM JS RECORD SIZE                      |
| 40      | (28) | ADDRESS   | 4   | WAPSSRP    | SR AREA TO SUBUS                            |
| 44      | (2C) | CHARACTER | 8   | WAPRUSER   | CURRENT TSO USER                            |
| 52      | (34) | CHARACTER | 16  | WAPJID     | JOB IDENTIFICATION                          |
| 52      | (34) | CHARACTER | 8   | WAPJNAM    | JOB NAME                                    |
| 60      | (3C) | CHARACTER | 8   | WAPJNUM    | JES JOB NUMBER                              |
| 68      | (44) | CHARACTER | 10  | WAPLATE    | NEXT TEST LATE OPER                         |
| 78      | (4E) | CHARACTER | 10  | WAPDWTO    | NEXT DEADLINE WTO TIME                      |
| 88      | (58) | CHARACTER | 1   | WAPSSTAT   | VAR SUBSTITUTION STATUS                     |
| 89      | (59) | CHARACTER | 3   | *          | RESERVED                                    |
| 92      | (5C) | CHARACTER | 88  | WAPDCB     | JOBLIB DCB                                  |
| 180     | (B4) | CHARACTER | 64  | WAPEXIT    | TIMER EXIT                                  |
| 244     | (F4) | CHARACTER | 10  | WAPSYNC    | NEXT TIME FOR NEW SYNC                      |
| 254     | (FE) | SIGNED    | 2   | WAPPLOOP#  | LOOP COUNTER                                |

| Offsets |       |           |     |            |                      |
|---------|-------|-----------|-----|------------|----------------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description          |
| 256     | (100) | ADDRESS   | 4   | WAPPDOAP   | PREVIOUS DOA ADDRESS |
| 260     | (104) | CHARACTER | 4   | WAPPCPTR   | PREVIOUS CP INDEX    |
| 260     | (104) | UNSIGNED  | 3   | WAPOCCX    | OCCURRENCE INDEX     |
| 263     | (107) | UNSIGNED  | 1   | WAPOPNO    | OPERATION NUMBER     |
| 264     | (108) | CHARACTER | 4   | WAPUX01CO  | USER EXIT 02 RC      |
| 268     | (10C) | CHARACTER | 48  | WAPPERFDB  | PERF DEBUG INFO      |
| 268     | (10C) | CHARACTER | 8   | WAPWASUB   | WASUB ELAPSED TIME   |
| 276     | (114) | CHARACTER | 8   | WAPJHGET   | JHGET ELAPSED TIME   |
| 284     | (11C) | CHARACTER | 8   | WAPJHPDS   | JHPDS ELAPSED TIME   |
| 292     | (124) | CHARACTER | 8   | WAPEXI02   | EXI02 ELAPSED TIME   |
| 300     | (12C) | CHARACTER | 8   | WAPJHPUT   | JHPUT ELAPSED TIME   |
| 308     | (134) | CHARACTER | 8   | WAPEXI01   | EXI01 ELAPSED TIME   |
| 316     | (13C) | 1... ..   |     | WAPDEBUG   | PERF DEBUG ON        |
|         |       | .111 1111 |     | *          | RESERVED             |
| 317     | (13D) | CHARACTER | 3   | *          | RESERVED             |
| 320     | (140) | ADDRESS   | 4   | WAPDIAP    | ADDRESS OF ZZWSA     |
| 324     | (144) | CHARACTER | 20  | *          | RESERVED             |
| 340     | (154) | CHARACTER | 4   | *          | RESERVED             |
| 344     | (158) | CHARACTER |     | WAPEND     | END OF WAP           |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| WAP      | 0          |           | 1     |
| WAPDCB   | 5C         |           | 2     |
| WAPDEBUG | 13C        | 80        | 2     |
| WAPDESC  | 0          |           | 2     |
| WAPDIAP  | 140        |           | 2     |
| WAPDOAP  | 10         |           | 2     |



| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| WAPDWTO    | 4E         |           | 2     |
| WAPEMP     | 18         |           | 2     |
| WAPEND     | 158        |           | 2     |
| WAPEXIT    | B4         |           | 2     |
| WAPEXI01   | 134        |           | 3     |
| WAPEXI02   | 124        |           | 3     |
| WAPFAKESUB | 6          | 04        | 3     |
| WAPFLAGS   | 6          |           | 2     |
| WAPJBUF    | 14         |           | 2     |
| WAPJCLB    | 20         |           | 2     |
| WAPJHGET   | 114        |           | 3     |
| WAPJHPDS   | 11C        |           | 3     |
| WAPJHPUT   | 12C        |           | 3     |
| WAPJID     | 34         |           | 2     |
| WAPJNAM    | 34         |           | 3     |
| WAPJNUM    | 3C         |           | 3     |
| WAPJSIZE   | 24         |           | 2     |
| WAPLATE    | 44         |           | 2     |
| WAPMCAP    | C          |           | 2     |
| WAPNOWT    | 6          | 80        | 3     |
| WAPOCCX    | 104        |           | 3     |
| WAPOPNO    | 107        |           | 3     |
| WAPOPRP    | 1C         |           | 2     |
| WAPPCPTR   | 104        |           | 2     |
| WAPPDOAP   | 100        |           | 2     |
| WAPPERFDB  | 10C        |           | 2     |
| WAPLOOP#   | FE         |           | 2     |
| WAPRUSER   | 2C         |           | 2     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| WAPSAERR  | 6          | 08        | 3     |
| WAPSCHE   | 144        |           | 2     |
| WAPSSRP   | 28         |           | 2     |
| WAPSSTAT  | 58         |           | 2     |
| WAPSUBER  | 6          | 10        | 3     |
| WAPSUBX   | 6          | 40        | 3     |
| WAPSYNC   | F4         |           | 2     |
| WAPTMECB  | 8          |           | 2     |
| WAPUX01   | 6          | 20        | 3     |
| WAPUX01CO | 108        |           | 2     |
| WAPVER    | 4          |           | 2     |
| WAPWASUX  | 10C        |           | 3     |

## WQA - Workstation queue area

### Example

Name : DCLWQA

Function:

This segment declares a workstation queue area entry. WQAs are chained, via WQAWQANX, to the anchor in NMMWAQ1. WQAs are built by the NMM when the scheduler is started from information in current plan workstation records.

| Offsets |     |           |     |            |                           |
|---------|-----|-----------|-----|------------|---------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description               |
| 0       | (0) | STRUCTURE | 248 | WQA        | WORKSTATION QUEUE AREA    |
| 0       | (0) | CHARACTER | 4   | WQADESC    | BLOCK DESCRIPTOR = 'WQA ' |
| 4       | (4) | CHARACTER | 2   | WQAVER     | BLOCK MAPPING VERSION     |
| 6       | (6) | BITSTRING | 1   | WQAFLGS    | WORKSTATION FLAGS         |
|         |     | 1... ..   |     | WQADEL     | WQA IS LOGICALLY DELETED  |
|         |     | .1.. ..   |     | WQAIVLNP   | PS NOT USED               |
|         |     | ..1. .... |     | WQAR1C     | CONTROL ON RESOURCE 1     |

| Offsets |      |           |     |              |                            |
|---------|------|-----------|-----|--------------|----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)   | Description                |
|         |      | ...1 .... |     | WQAR2C       | CONTROL ON RESOURCE 2      |
|         |      | .... 1... |     | WQAREROUTE   | 1: REROUTE MODE            |
|         |      | .... .1.. |     | WQAWS_VARY   | 1: VARIED STATUS           |
|         |      | .... ..1. |     | WQARTR_PEND  | 1: RTR EVENT PENDING       |
|         |      | .... ...1 |     | WQAOFF_PEND  | 1: PENDING OFFLINE         |
| 7       | (7)  | CHARACTER | 1   | WQAWSTYP     | WORKSTATION TYPE           |
| 8       | (8)  | CHARACTER | 4   | WQAWSNAM     | WORKSTATION NAME           |
| 12      | (C)  | CHARACTER | 1   | WQAWSREP     | REPORTING ATTRIBUTE        |
| 13      | (D)  | CHARACTER | 1   | WQAPREP      | JOB PREPARATION WS Y\N     |
| 14      | (E)  | CHARACTER | 1   | WQASTATUS    | WS STATUS                  |
| 15      | (F)  | BITSTRING | 1   | WQAFLAG2     | WORKSTATION FLAG 2         |
|         |      | 1... .... |     | WQASTC       | STC OPTION                 |
|         |      | .1.. .... |     | WQAWTO       | WTO OPTION                 |
|         |      | ..1. .... |     | WQASSEQ_PEND | WAITING FOR JO EVENT       |
|         |      | ...1 .... |     | WQAOSI       | USER DEFINED DESTINATION   |
|         |      | .... 1... |     | WQATOKEN     | TOKEN REQUIRED             |
|         |      | .... .1.. |     | WQAWSSTAT    | STATUS BY WSSTAT           |
|         |      | .... ..1. |     | WQAUX009     | STATUS BY EQQUX009         |
|         |      | .... ...1 |     | WQATCP       | TCP DESTINATION            |
| 16      | (10) | UNSIGNED  | 2   | WQACURR1     | AMOUNT OF R1 IN USE        |
| 18      | (12) | UNSIGNED  | 2   | WQACURR2     | AMOUNT OF R2 IN USE        |
| 20      | (14) | SIGNED    | 4   | WQAMAX15     | MAX NO OF EVENTS IN 15 MIN |
| 24      | (18) | BITSTRING | 2   | WQAFLAG3     | WORKSTATION FLAG 3         |
|         |      | 1... .... |     | WQAAPPC      | APPC DESTINATION           |
|         |      | .1.. .... |     | WQAWAIT      | WAIT WORKSTATION           |
|         |      | ..1. .... |     | WQAZNOINFO   | ZCENTRIC INIT STATUS       |
|         |      | ...1 .... |     | WQASTCHG     | WQA STATUS CHANGE          |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 24      | (18) | BITSTRING | 1   | *          | FREE                    |
| 26      | (1A) | BITSTRING | 2   | *          | FREE                    |
|         |      | 1... ..   |     | WQATCPNEW  | TCPIP CLASSIC TRACKER   |
| 28      | (1C) | ADDRESS   | 4   |            |                         |
| 32      | (20) | ADDRESS   | 4   | WQADOAP    | ADDR OF 1ST ACTIVE OPER |
| 36      | (24) | ADDRESS   | 4   | WQASUREP   | ADDR OF SU/RE DS IOC    |
| 40      | (28) | ADDRESS   | 4   | WQAOINTP   | CURR INTERVAL IVL       |
| 44      | (2C) | ADDRESS   | 4   | WQA_ALTWSP | ADDR OF ALTERNATE       |
| 48      | (30) | ADDRESS   | 4   | WQADOAPR   | ADDR OF 1ST READY OPER  |
| 52      | (34) | CHARACTER | 12  | WQASUMC    | SUM OF COMPLETED OPS    |
| 52      | (34) | SIGNED    | 4   | WQASUMC#   | NUMBER                  |
| 56      | (38) | SIGNED    | 4   | WQASUMCE   | ESTIMATED DURATION      |
| 60      | (3C) | SIGNED    | 4   | WQASUMCR   | REAL DURATION           |
| 64      | (40) | CHARACTER | 12  | WQASUMI    | SUM OF INTERRUPTED OPS  |
| 64      | (40) | SIGNED    | 4   | WQASUMI#   | NUMBER                  |
| 68      | (44) | SIGNED    | 4   | WQASUMIE   | ESTIMATED DURATION      |
| 72      | (48) | SIGNED    | 4   | WQASUMIR   | REAL DURATION           |
| 76      | (4C) | CHARACTER | 8   | WQASUMS    | SUM OF STARTED OPS      |
| 76      | (4C) | SIGNED    | 4   | WQASUMS#   | NUMBER                  |
| 80      | (50) | CHARACTER | 8   | WQASUMSE   | ESTIMATED DURATION      |
| 84      | (54) | CHARACTER | 8   | WQASUMR    | SUM OF READY OPS        |
| 84      | (54) | SIGNED    | 4   | WQASUMR#   | NUMBER                  |
| 88      | (58) | CHARACTER | 8   | WQASUMRE   | ESTIMATED DURATION      |
| 92      | (5C) | CHARACTER | 8   | WQASUMW    | SUM OF WAITING OPS      |
| 92      | (5C) | SIGNED    | 4   | WQASUMW#   | NUMBER                  |
| 96      | (60) | SIGNED    | 4   | WQASUMWE   | ESTIMATED DURATION      |
| 100     | (64) | SIGNED    | 4   | WQASUMA    | SUM OF ARRIVING OPS     |

| Offsets |      |           |     |             |                                                                        |
|---------|------|-----------|-----|-------------|------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                            |
| 104     | (68) | SIGNED    | 4   | WQASUMNRR   | SUM OF '*' READY                                                       |
| 108     | (6C) | SIGNED    | 4   | WQASUMU     | SUM OF UNDECIDED                                                       |
| 112     | (70) | SIGNED    | 4   | WQASUME     | SUM OF ERROR OPERS                                                     |
| 116     | (74) | SIGNED    | 4   | WQASUML     | SUM OF LATE OPERS                                                      |
| 120     | (78) | CHARACTER | 8   | WQACREVT    | LAST SYNCHRONOUS EVENT<br>CREATION TIME                                |
| 120     | (78) | SIGNED    | 4   | WQADATE     | DATE FORMAT (00YYDDDF)                                                 |
| 124     | (7C) | SIGNED    | 4   | WQATIME     | TIME FORMAT (SECS*100)                                                 |
| 128     | (80) | ADDRESS   | 4   | WQAVIRTPTR  | IF WQAVTYPE: N ==> 0, V ==> 1° VIRT<br>DEST WQA, D ==> OWNING VIRT WQA |
| 132     | (84) | SIGNED    | 4   | WQASUMX     | SUM OF DUMMY COMPL OPERATIONS                                          |
| 136     | (88) | SIGNED    | 4   | WQASUMD     | SUM OF DELETED OPERATIONS                                              |
| 140     | (8C) | CHARACTER | 8   | WQAPREEV    | TIME OF PREVIOUS EVENT                                                 |
| 140     | (8C) | CHARACTER | 4   | WQAPREDT    | DATE (FORMAT 00YYDDDF)                                                 |
| 144     | (90) | CHARACTER | 4   | WQAPRETM    | TIME (FORMAT HHMMSSSTH)                                                |
| 148     | (94) | CHARACTER | 8   | WQAOFF      | TIME OF OFFLINE EVENT                                                  |
| 148     | (94) | CHARACTER | 4   | WQAOFF_DATE | DATE (FORMAT 00YYDDDF)                                                 |
| 152     | (98) | CHARACTER | 4   | WQAOFF_TIME | TIME (FORMAT HHMMSSSTH)                                                |
| 156     | (9C) | CHARACTER | 2   | WQAWSR1N    | NAME OF R1 ON THIS WORKSTATION                                         |
| 158     | (9E) | CHARACTER | 2   | WQAWSR2N    | NAME OF R2 ON THIS WORKSTATION                                         |
| 160     | (A0) | CHARACTER | 8   | WQASUDS     | SUBMIT DESTINATION                                                     |
| 168     | (A8) | SIGNED    | 4   | WQAIVL#     | NUMBER OF OPEN INTERVALS                                               |
| 172     | (AC) | CHARACTER | 32  | WQASDESC    | WORKSTATION DESCRIPTION                                                |
| 204     | (CC) | CHARACTER | 1   | WQAEOPTP    | POINTER TO E2E OPTIONS                                                 |
| 208     | (D0) | CHARACTE  | 1   | WQAVTYPE    |                                                                        |
| 209     | (D1) | UNSIGNED  | 1   | WQARSEQ#    | CURRENT SUBMIT REQ#                                                    |
| 210     | (D2) | UNSIGNED  | 2   | WQASSEQ#    | CURRENT SUBMIT SEQ#                                                    |
| 212     | (D4) | CHARACTER | 8   | WQANETID    | APPC ROUTE NETID                                                       |

| Offsets |      |           |     |            |                                                               |
|---------|------|-----------|-----|------------|---------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                   |
| 220     | (DC) | CHARACTER | 8   | WQANETLU   | APPC ROUTE LU NAME                                            |
| 228     | (E4) | UNSIGNED  | 1   | WQASUMCES  | SECONDS FOR WQASUMCE                                          |
| 229     | (E5) | UNSIGNED  | 1   | WQASUMCRS  | SECONDS FOR WQASUMCR                                          |
| 230     | (E6) | UNSIGNED  | 1   | WQASUMIES  | SECONDS FOR WQASUMIE                                          |
| 231     | (E7) | UNSIGNED  | 1   | WQASUMIRS  | SECONDS FOR WQASUMIR                                          |
| 232     | (E8) | UNSIGNED  | 1   | WQASUMSES  | SECONDS FOR WQASUMSE                                          |
| 233     | (E9) | UNSIGNED  | 1   | WQASUMRES  | SECONDS FOR WQASUMRE                                          |
| 234     | (EA) | UNSIGNED  | 1   | WQASUMWES  | SECONDS FOR WQASUMWE                                          |
| 235     | (EB) | CHARACTER | 1   | WQATWS     | WORKLOAD SCHEDULER<br>WORKSTATION                             |
| 236     | (EC) | CHARACTER | 1   | WQALNKSTA  | WORKLOAD SCHEDULER<br>WORKSTATION LINK STATUS                 |
| 237     | (ED) | CHARACTER | 1   | WQAF LGTWS | WORKLOAD SCHEDULER<br>WORKSTATION SPECIFIC FLAGS              |
|         |      | 1... ..   |     | WQALNKVA   | WORKLOAD SCHEDULER LINKED MAN<br>VARIED                       |
|         |      | .1.. ..   |     | WQASTAVA   | WORKLOAD SCHEDULER STATUS MAN<br>VARIED                       |
|         |      | ..1. .... |     | WQALNKDW   | WORKLOAD SCHEDULER LINKED DOWN<br>TO CPU                      |
|         |      | ...1 .... |     | WQAWRTST   | WORKLOAD SCHEDULER WRITER<br>STATUS FOR CPU                   |
|         |      | .... 1... |     | WQACMDLNK  | WORKLOAD SCHEDULER command link:<br>on=link<br>off=unlink     |
|         |      | .... .1.. |     | WQACMDSTA  | WORKLOAD SCHEDULER command<br>status:<br>on=start<br>off=stop |
|         |      | .... ..1. |     | WQAFULLNK  | WORKLOAD FULLY LINKED STATUS:                                 |

| Offsets |      |           |     |             |                                                                        |
|---------|------|-----------|-----|-------------|------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                                            |
|         |      |           |     |             | ON=FULLY LINKED<br>OFF=NOT FULLY LINKED                                |
| 238     | (EE) | USIGNED   | 2   | WQACPULIMIT | CPU LIMIT VALUE                                                        |
| 240     | (F0) | CHARACTER | 1   | WQAWSFLG    | WORKSTATION FLAG                                                       |
|         |      | 1... ..   |     | WQASAUTO    | WORKSTATION SYSTEM AUTOMATION<br>STATUS:<br>YES=ENABLED<br>NO=DISABLED |
|         |      | .1... ..  |     | WQASTARTV   | ON: LAST PROPOSED VIRT                                                 |
|         |      | ..1. .... |     | WQASUBV     | ON: LAST SUB FOR VIRT                                                  |
|         |      | ...1 .... |     | WQAZCAGENT  | ON: Z CENTRIC DISTRIBUTED AGENT                                        |
|         |      | .... 1... |     | WQAPARALWS  | ON: PARALLEL WORKSTATION                                               |
|         |      | .... .1.. |     | WQADYN      | ON: DYNAMIC WORKSTATION                                                |
|         |      | .... ..1. |     | *           | AVAILABLE                                                              |
| 241     | (F1) | CHARACTER | 1   | WQAFULLYACT | Y N                                                                    |
| 242     | (F2) | CHARACTER | 1   | WQARENGT    | REMOTE ENGINE TYPE                                                     |
| 243     | (F3) | CHARACTER | 1   | *           | FREE                                                                   |
| 244     | (F4) | SIGNED    | 4   | WQASUMH     | SUM OF MAN HOLD OPERATIONS                                             |
| 248     | (F8) | CHARACTER |     | WQAEND      | END OF WQA                                                             |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| WQA         | 0          |           | 1     |
| WQA_ALTWSP  | 2C         |           | 2     |
| WQAACCOMP   | CC         |           | 2     |
| WQAAPPC     | 18         | 80        | 3     |
| WQACMDLNK   | ED         | 08        | 3     |
| WQACMDSTA   | ED         | 04        | 3     |
| WQACPULIMIT | EE         |           | 2     |

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| WQACREVT    | 78         |           | 2     |
| WQACURR1    | 10         |           | 2     |
| WQACURR2    | 12         |           | 2     |
| WQADATE     | 78         |           | 3     |
| WQADEL      | 6          | 80        | 3     |
| WQADESC     | 0          |           | 2     |
| WQADOAP     | 20         |           | 2     |
| WQADOAPR    | 30         |           | 2     |
| WQADYN      | F0         | 04        | 3     |
| WQAEND      | F8         |           | 2     |
| WQAEOPTP    | CC         |           | 2     |
| WQAFLAG2    | F          |           | 2     |
| WQAFLAG3    | 18         |           | 2     |
| WQAFLGS     | 6          |           | 2     |
| WQAFLGTWS   | ED         |           | 2     |
| WQAFULLNK   | ED         | 02        | 3     |
| WQAFULLYACT | F1         |           | 2     |
| WQAIVL#     | A8         |           | 2     |
| WQAIVLNP    | 6          | 40        | 3     |
| WQALNKDW    | ED         | 20        | 3     |
| WQALNKSTA   | EC         |           | 2     |
| WQALNKVA    | ED         | 80        | 3     |
| WQAMAX15    | 14         |           | 2     |
| WQANETID    | D4         |           | 2     |
| WQANETLU    | DC         |           | 2     |
| WQAOFF      | 94         |           | 2     |
| WQAOFF_DATE | 94         |           | 3     |
| WQAOFF_PEND | 6          | 01        | 3     |



| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| WQAOFF_TIME  | 98         |           | 3     |
| WQAINTP      | 28         |           | 2     |
| WQAOSI       | F          | 10        | 3     |
| WQAPARALWS   | F0         | 08        | 3     |
| WQAPREDT     | 8C         |           | 3     |
| WQAPREEV     | 8C         |           | 2     |
| WQAPREP      | D          |           | 2     |
| WQAPRETM     | 90         |           | 3     |
| WQARENGT     | F2         |           | 2     |
| WQAREROUTE   | 6          | 08        | 3     |
| WQARSEQ#     | D1         |           | 2     |
| WQARTR_PEND  | 6          | 02        | 3     |
| WQAR1C       | 6          | 20        | 3     |
| WQAR2C       | 6          | 10        | 3     |
| WQASAUTO     | F0         | 80        | 3     |
| WQASDESC     | AC         |           | 3     |
| WQASSEQ_PEND | F          | 20        | 3     |
| WQASSEQ#     | D2         |           | 2     |
| WQASTARTV    | F0         | 40        | 3     |
| WQASTATUS    | E          |           | 2     |
| WQASTAVA     | ED         | 40        | 3     |
| WQASTC       | F          | 80        | 3     |
| WQASTCHG     | 18         | 10        | 3     |
| WQASUBV      | F0         | 20        | 3     |
| WQASUDS      | A0         |           | 2     |
| WQASUMA      | 64         |           | 2     |
| WQASUMC      | 34         |           | 2     |
| WQASUMC#     | 34         |           | 3     |

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| WQASUMCE  | 38         |           | 3     |
| WQASUMCES | E4         |           | 2     |
| WQASUMCR  | 3C         |           | 3     |
| WQASUMCRS | E5         |           | 2     |
| WQASUMD   | 88         |           | 2     |
| WQASUME   | 70         |           | 2     |
| WQASUMH   | F4         |           | 2     |
| WQASUMI   | 40         |           | 2     |
| WQASUMI#  | 40         |           | 3     |
| WQASUMIE  | 44         |           | 3     |
| WQASUMIES | E6         |           | 2     |
| WQASUMIR  | 48         |           | 3     |
| WQASUMIRS | E7         |           | 2     |
| WQASUML   | 74         |           | 2     |
| WQASUMNRR | 68         |           | 2     |
| WQASUMR   | 54         |           | 2     |
| WQASUMR#  | 54         |           | 3     |
| WQASUMRE  | 58         |           | 3     |
| WQASUMRES | E9         |           | 2     |
| WQASUMS   | 4C         |           | 2     |
| WQASUMS#  | 4C         |           | 3     |
| WQASUMSE  | 50         |           | 3     |
| WQASUMSES | E8         |           | 2     |
| WQASUMU   | 6C         |           | 2     |
| WQASUMW   | 5C         |           | 2     |
| WQASUMW#  | 5C         |           | 3     |
| WQASUMWE  | 60         |           | 3     |
| WQASUMWES | EA         |           | 2     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| WQASUMX    | 84         |           | 2     |
| WQASUREP   | 24         |           | 2     |
| WQATCP     | F          | 01        | 3     |
| WQATCPNEW  | 1A         | 80        | 3     |
| WQATIME    | 7C         |           | 3     |
| WQATOKEN   | F          | 08        | 3     |
| WQATWS     | EB         |           | 2     |
| WQAU009    | F          | 02        | 3     |
| WQAVERT    | 4          |           | 2     |
| WQAVIRTPTR | 80         |           | 2     |
| WQAVTYPE   | D0         |           | 2     |
| WQAWAIT    | 18         | 40        | 3     |
| WQAWQANX   | 1C         |           | 2     |
| WQAWRTST   | ED         | 10        | 3     |
| WQAWS_VARY | 6          | 04        | 3     |
| WQAWSFLG   | F0         |           | 2     |
| WQAWSNAM   | 8          |           | 2     |
| WQAWSREP   | C          |           | 2     |
| WQAWSR1N   | 9C         |           | 2     |
| WQAWSR2N   | 9E         |           | 2     |
| WQAWSSTAT  | F          | 04        | 3     |
| WQAWSTYP   | 7          |           | 2     |
| WQAWTO     | F          | 40        | 3     |
| WQAZCAGENT | F0         | 10        | 3     |
| WQASUBV    | 18         | 20        | 3     |

## WSD - Workstation description record

### Example

Name : DCLWSD

Function:

This segment declares a workstation definition, physically located in the workstation description database (EQQWSDS) The WSD structure is as follows:

1 WSD

2 common data

2 a table with one row per day defined describing the day

2 a table with one row per open time interval describing the interval

Each entry in the day table contains an index into the interval table for the first interval defined for that particular day.

| Offsets |      |           |     |            |                             |
|---------|------|-----------|-----|------------|-----------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                 |
| 0       | (0)  | STRUCTURE | *   | WSD        |                             |
| 0       | (0)  | CHARACTER | 156 | WSDCOMMON  |                             |
| 0       | (0)  | CHARACTER | 6   | *          | RESERVED FOR VSAM           |
| 6       | (6)  | CHARACTER | 4   | WSDKEY     | *** KEY FIELD *****         |
| 6       | (6)  | CHARACTER | 4   | WSDNAME    | WS NAME                     |
| 10      | (A)  | CHARACTER | 4   | WSDEYE     | EYECATCHER                  |
| 14      | (E)  | UNSIGNED  | 1   | WSDVERS    | VERSION NUMBER              |
| 15      | (F)  | CHARACTER | 4   | WSDTRSPT   | TIME FROM PRE WS HHMM       |
| 19      | (13) | CHARACTER | 4   | WSDOPDUR   | OPER DURATION DEFAULT HHMM  |
| 23      | (17) | CHARACTER | 8   | WSDROUT    | PRINTOUT ROUTING FOR DP     |
| 31      | (1F) | CHARACTER | 32  | WSDDESCR   | WS DESCRIPTION              |
| 63      | (3F) | CHARACTER | 1   | WSDTYPE    | TYPE OF WORKSTATION         |
| 64      | (40) | BITSTRING | 1   | WSDFLG     |                             |
|         |      | 1... ..   |     | WSDPREP    | JOBSETUP USED ON THIS WS?   |
|         |      | .1.. ..   |     | WSDPSJT    | CONTROL ON SERVERS          |
|         |      | ..1. .... |     | WSDSPLIT   | SPLITTABLE ATTRIBUTE        |
|         |      | ...1 .... |     | WSDSTC     | STARTED TASK                |
|         |      | .... 1... |     | WSDWTO     | DEADLINE WTO                |
|         |      | .... .1.. |     | WSDZCAGN   | Z-CENTRIC AGENT WORKSTATION |

| Offsets |      |           |     |            |                                                  |
|---------|------|-----------|-----|------------|--------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                      |
|         |      | .... ..1. |     | WSDWAIT    | WAIT WORKSTATION                                 |
|         |      | .... ..1  |     | WSDVIRT    | VIRTUAL WORKSTATION                              |
| 65      | (41) | CHARACTER | 1   | WSDREP     | REPORTING ATTRIBUTE                              |
| 66      | (42) | CHARACTER | 2   | WSDR1NAM   | WS RESOURCE NAME                                 |
| 68      | (44) | CHARACTER | 2   | WSDR1FLG   | RESOURCE INDICATORS                              |
|         |      | 1... .... |     | WSDR1PLAN  | RESOURCE USED AT PLANNING                        |
|         |      | .1.. .... |     | WSDR1CONT  | RESOURCE USED AT CONTROL                         |
| 68      | (44) | BITSTRING | 1   | *          | FREE                                             |
| 70      | (46) | CHARACTER | 2   | WSDR2NAM   | WS RESOURCE NAME                                 |
| 72      | (48) | CHARACTER | 2   | WSDR2FLG   | RESOURCE INDICATORS                              |
|         |      | 1... .... |     | WSDR2PLAN  | RESOURCE USED AT PLANNING                        |
|         |      | .1.. .... |     | WSDR2CONT  | RESOURCE USED AT CONTROL                         |
| 72      | (48) | BITSTRING | 1   | *          | FREE                                             |
| 74      | (4A) | CHARACTER | 6   | WSDUPDAT   | LATEST UPDATE, THIS WSD                          |
| 80      | (50) | CHARACTER | 4   | WSDUPTI    | LATEST UPDATE TIME                               |
| 84      | (54) | CHARACTER | 8   | WSDUSER    | ID OF USER WHO MADE THE LATEST CHANGE TO THIS WS |
| 92      | (5C) | CHARACTER | 8   | WSDSUDS    | SU/RE DATA SET DDNAME                            |
| 100     | (64) | SIGNED    | 2   | WSDVDES#   | NUMBER OF VIRTUAL DEST                           |
| 102     | (66) | BITSTRING | 1   | WSDFLG1    |                                                  |
|         |      | 1... .... |     | WSDINVOPT  | INVALID OPTION SPEC                              |
|         |      | .1.. .... |     | WSDDYN     | DYNAMIC SCHEDULING WORKSTATION                   |
|         |      | ..1. .... |     | WSDDYNIO   | DYNAMIC INVALID OPT                              |
|         |      | ...1 1111 |     | *          | FREE                                             |
| 103     | (67) | CHARACTER | 1   | WSDPSERV   | SERVER USEAGE N/B/P/C                            |
| 104     | (68) | CHARACTER | 1   | WSDRENG    | REMOTE ENGINE TYPE Z/D                           |
| 105     | (69) | CHARACTER | 2   | *          | FREE                                             |
| 107     | (6B) | CHARACTER | 1   | WSDTWS     | FTA WORKSTATION                                  |

| Offsets                 |      |           |     |            |                                                 |
|-------------------------|------|-----------|-----|------------|-------------------------------------------------|
| Dec                     | Hex  | Type      | Len | Name (Dim) | Description                                     |
| 108                     | (6C) | SIGNED    | 2   | WSDDAY#    | TOTAL NO. OF DAYS                               |
| 110                     | (6E) | SIGNED    | 2   | WSDTOTIVL# | TOTAL NO. OPEN TIME INTVLS                      |
| 112                     | (70) | SIGNED    | 2   | WSDACCM#   | 0=NO ACC. METH. DATA<br>1=ACC METH DATA PRESENT |
| 114                     | (72) | CHARACTER | 1   | WSDAUTO    | SYSTEM AUTOMATION                               |
| 115                     | (73) | CHARACTER | 1   | *          | FREE                                            |
| 116                     | (74) | CHARACTER | 8   | WSDLUTS    | LAST UPDATE TIMESTAMP                           |
| 124                     | (7C) | SIGNED    | 2   | WSDEOPT#   | 0 = 'NO E2E OPTIONS DATA'                       |
| 126                     | (7E) | CHARACTER | 14  | *          | FREE                                            |
| 140                     | (8C) | CHARACTER | 16  | WSDLONGWS  | LONG WS NAME                                    |
| 156                     | (9C) | CHARACTER | *   | WSDVARSECT | VARIABLE SECTION                                |
| DAY RELATED INFORMATION |      |           |     |            |                                                 |

| Offsets                        |       |           |     |              |                                                   |
|--------------------------------|-------|-----------|-----|--------------|---------------------------------------------------|
| Dec                            | Hex   | Type      | Len | Name (Dim)   | Description                                       |
| 140                            | (8C)  | STRUCTURE | 52  | WSDDAY (*)   |                                                   |
| 140                            | (8C)) | CHARACTER | 6   | WSDDATE      | SPECIFIC DATE                                     |
| 140                            | (8C)  | SIGNED    | 2   | WSDDAYNO     | 1-MONDAY 7-SUNDAY 8-STAND                         |
| 146                            | (92   | CHARACTER | 24  | WSDDESD      | DESCRIPTION OF DAY                                |
| 170                            | (AA)  | BITSTRING | 1   | WSDDFLG      |                                                   |
|                                |       | 1... ..   |     | WSDDSPECIFIC | SPECIFIC DAY INDICATOR                            |
| 171                            | (AB)  | CHARACTER | 13  | *            | FREE                                              |
| 184                            | (B8)  | SIGNED    | 4   | WSDDIVL#     | NO. OF INTERVALS                                  |
| 188                            | (BC)  | SIGNED    | 4   | WSDIVL_IX    | INDEX OF FIRST OPEN TIME INTERVAL<br>FOR THIS DAY |
| OPEN TIME INTERVAL INFORMATION |       |           |     |              |                                                   |

| Offsets                   |      |           |     |            |                            |
|---------------------------|------|-----------|-----|------------|----------------------------|
| Dec                       | Hex  | Type      | Len | Name (Dim) | Description                |
| 0                         | (0)  | STRUCTURE | 32  | WSDIVL (*) |                            |
| 0                         | (0)  | CHARACTER | 4   | WSDSTART   | START TIME OF INTERVAL     |
| 4                         | (4)  | CHARACTER | 4   | WSDENDT    | END TIME OF INTERVAL       |
| 8                         | (8)  | SIGNED    | 2   | WSDSERV#   | NUMBER OF PARALLEL SERVERS |
| 10                        | (A)  | SIGNED    | 2   | WSDR1CAP   | RESOURCE CAPACITY          |
| 12                        | (C)  | SIGNED    | 2   | WSDR2CAP   | RESOURCE CAPACITY          |
| 14                        | (E)  | CHARACTER | 4   | WSDAWS     | ALTERNATE WS NAME          |
| 18                        | (12) | CHARACTER | 14  | *          | FREE                       |
| ACCESS METHOD INFORMATION |      |           |     |            |                            |

| Offsets |      |           |     |            |                    |
|---------|------|-----------|-----|------------|--------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description        |
| 0       | (0)  | STRUCTURE | 72  | WSDACC (*) |                    |
| 0       | (0)  | CHARACTER | 12  | WSDACCMN   | ACCESS METHOD NAME |
| 12      | (C)  | CHARACTER | 52  | WSDADR     | SAP HOST ADDRESS   |
| 12      | (C)  | CHARACTER | 26  | WSDADR1    | SAP HOST ADDRESS   |
| 38      | (26) | CHARACTER | 26  | WSDADR2    | SAP HOST ADDRESS   |
| 64      | (40) | SIGNED    | 4   | WSDPORT    | SAP PORT NUMBER    |
| 68      | (44) | CHARACTER | 4   | *          | FREE               |

| Offsets |     |           |     |             |                  |
|---------|-----|-----------|-----|-------------|------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description      |
| 0       | (0) | STRUCTURE | 16  | WSDVDES (*) |                  |
| 0       | (0) | CHARACTER | 8   | WSDVDNAM    | REAL DESTINATION |
| 8       | (8) | SIGNED    | 4   | WSDVDID     | WSV ID           |
| 12      | (C) | CHARACTER | 4   | *           | FREE             |

| Offsets |      |           |     |             |                        |
|---------|------|-----------|-----|-------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description            |
| 0       | (0)  | STRUCTURE | 173 | WSDEOPT (*) |                        |
| 0       | (0)  | CHARACTER | 47  | WSDEOJU     | DEFAULT USER NAME      |
| 47      | (2F) | CHARACTER | 1   | WSDEOJP     | PASSWORD SPECIFIED     |
| 48      | (30) | CHARACTER | 40  | WSDEOJT     | DEFAULT ACCESS METHOD  |
| 88      | (58) | CHARACTER | 1   | WSDEOBR     | IS A BROKER (YIN)      |
| 89      | (59) | CHARACTER | 40  | WSDEOPL     | BROKER AGENT POOL NAME |
| 129     | (81) | CHARACTER | 40  | WSDEODP     | BROKER DYNAMIC POOL    |
| 169     | (A9) | CHARACTER | 4   | *           | FREE                   |

### Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| WSD       | 0          |           | 1     |
| WSDACC    | 0          |           | 1     |
| WSDACCM#  | 70         |           | 3     |
| WSDACCMN  | 0          |           | 2     |
| WSDADR    | C          |           | 2     |
| WSDADR1   | C          |           | 3     |
| WSDADR2   | 26         |           | 3     |
| WSDAUTO   | 72         |           | 3     |
| WSDAWS    | E          |           | 2     |
| WSDCOMMON | 0          |           | 2     |
| WSDDATE   | 8C         |           | 2     |
| WSDDAY    | 8C         |           | 1     |
| WSDDAY#   | 6C         |           | 3     |
| WSDDAYNO  | 8C         |           | 3     |
| WSDDESCR  | 1F         |           | 3     |
| WSDDESD   | 92         |           | 2     |
| WSDDFLG   | AA         |           | 2     |



| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| WSDDIVL#     | B8         |           | 2     |
| WSDDSPECIFIC | AA         | 80        | 3     |
| WSDDYN       | 66         | 40        | 4     |
| WEDDYNIO     | 66         | 20        | 4     |
| WSDENDT      | 4          |           | 2     |
| WSDEOBR      | 58         |           | 2     |
| WSDEODP      | 81         |           | 2     |
| WSDEOJP      | 2F         |           | 2     |
| WSDEOJT      | 30         |           | 2     |
| WSDEOJU      | 0          |           | 2     |
| WSDEOPL      | 59         |           | 2     |
| WSDEOPT      | 0          |           | 1     |
| WSDEOPT#     | 7C         |           | 3     |
| WSDEYE       | A          |           | 3     |
| WSDFLG       | 40         |           | 3     |
| WSDFLG1      | 66         |           | 3     |
| WSDINVOPT    | 66         | 80        | 4     |
| WSDIVL       | 0          |           | 1     |
| WSDIVL_IX    | BC         |           | 2     |
| WSDKEY       | 6          |           | 3     |
| WSDLUTS      | 74         |           | 3     |
| WSDNAME      | 6          |           | 4     |
| WSDOPDUR     | 13         |           | 3     |
| WSDPORT      | 40         |           | 2     |
| WSDPREP      | 40         | 80        | 4     |
| wsdpserv     | 67         |           | 3     |
| WSDPSJT      | 40         | 40        | 4     |
| WSDRENG      | 68         |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| WSDREP     | 41         |           | 3     |
| WSDROUT    | 17         |           | 3     |
| WSDRSEQ#   | 66         |           | 3     |
| WSDR1CAP   | A          |           | 2     |
| WSDR1CONT  | 44         | 40        | 4     |
| WSDR1FLG   | 44         |           | 3     |
| WSDR1NAM   | 42         |           | 3     |
| WSDR1PLAN  | 44         | 80        | 4     |
| WSDR2CAP   | C          |           | 2     |
| WSDR2CONT  | 48         | 40        | 4     |
| WSDR2FLG   | 48         |           | 3     |
| WSDR2NAM   | 46         |           | 3     |
| WSDR2PLAN  | 48         | 80        | 4     |
| WSDSERV#   | 8          |           | 2     |
| WSDSPLIT   | 40         | 20        | 4     |
| WSDSSEQ#   | 64         |           | 3     |
| WSDSTART   | 0          |           | 2     |
| WSDSTC     | 40         | 10        | 4     |
| WSDSUDS    | 5C         |           | 3     |
| WSDTOTIVL# | 6E         |           | 3     |
| WSDTRSPT   | F          |           | 3     |
| WSDTWS     | 6B         |           | 3     |
| WSDTYPE    | 3F         |           | 3     |
| WSDUPDAT   | 4A         |           | 3     |
| WSDUPTI    | 50         |           | 3     |
| WSDUSER    | 54         |           | 3     |
| WSDVARSECT | 8C         |           | 2     |
| WSDVERS    | E          |           | 3     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| WSDVIRT  | 40         | 01        | 4     |
| WSDWAIT  | 40         | 02        | 4     |
| WSDWTO   | 40         | 08        | 4     |
| WSDZCAGN | 40         | 04        | 4     |

## WSN - Workstation resource report record in DP

### Example

Name : DCLWSN

Function:

Describes layout of parallel servers, R1 and R2 indicating the planned workstation load measured in parallel servers, R1 and R2 units. There is one record for each workstation and 'day' in the plan. A 'day' starts/ends on the time given in planhour. For each 15 minutes the amount is recorded of R1/R2 resources needed (according to the operation descriptions) multiplied by 15 planned server minutes for all operations with start-end interval covering the interval (if 1/3 of the interval covered - 1/3\*amount). An example: An operation planned between 14.30 and 14.48 using 1 server, 50 R1, and 2 R2 will record 15 server minutes, 15\*50 R1 units and 15\*2 R2 units in the 14.30-14.45 slot and will record 3 server minutes, 3\*50 R1 units and 3\*2 R2 units in the 14.45-15.00 slot. The records have the standard recsize and keysize of DPIN records.

| Offsets |      |           |     |            |                                                    |
|---------|------|-----------|-----|------------|----------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                        |
| 0       | (0)  | STRUCTURE | 273 | WSNAREA    | PARALLEL SERV R1 R2 REC                            |
| 0       | (0)  | CHARACTER | 74  | WSNKEY     | KEY                                                |
| 0       | (0)  | SIGNED    | 2   | WSNTYPE    | ALWAYS TYPE 3                                      |
| 2       | (2)  | CHARACTER | 8   | WSNROUT    | REPORT ROUTING                                     |
| 10      | (A)  | CHARACTER | 4   | WSNWSID    | WORKSTATION ID                                     |
| 14      | (E)  | SIGNED    | 2   | WSNSTYPE   | SUBTYPE SERVER MINUTES= 3 R1 = 4 R2<br>= 5         |
| 16      | (10) | CHARACTER | 6   | WSNDATE    | REPORT 'DAY' (YYMMDD)                              |
| 22      | (16) | CHARACTER | 2   | WSNSTRNG   | R1 R2 STRING IN REPORTS BLANK FOR<br>PARALLEL SERV |
| 24      | (18) | CHARACTER | 1   | WSNRPLN    | RESOURCE PLANNING Y N                              |

| Offsets |       |           |     |             |                           |
|---------|-------|-----------|-----|-------------|---------------------------|
| Dec     | Hex   | Type      | Len | Name (Dim)  | Description               |
| 25      | (19)  | CHARACTER | 34  | *           | ADJUST TO KEYLENGTH       |
| 59      | (3B)  | CHARACTER | 15  | *           | TO ADD UP TO 74 BYTES     |
| 74      | (4A)  | CHARACTER | 199 | WSNDATA     | DATA PART OF WSN RECORD   |
| 74      | (4A)  | SIGNED    | 2   | WSNFACT     | FACTOR TO MULTIPLY AMOUNT |
| 76      | (4C)  | UNSIGNED  | 1   | WSNAMT (96) | OF RESOURCES              |
| 172     | (AC)  | UNSIGNED  | 1   | WSNLIM (96) | LIMIT OF RESOURCES        |
| 268     | (10C) | CHARACTER | 5   | *           | TO ADD UP TO STD RECSIZE  |

### Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| WSNAMT   | 4C         |           | 3     |
| WSNAREA  | 0          |           | 1     |
| WSNDATA  | 4A         |           | 2     |
| WSNDATE  | 10         |           | 3     |
| WSNFACT  | 4A         |           | 3     |
| WSNKEY   | 0          |           | 2     |
| WSNLIM   | AC         |           | 3     |
| WSNROUT  | 2          |           | 3     |
| WSNRPLN  | 18         |           | 3     |
| WSNSTRNG | 16         |           | 3     |
| WSNSTYPE | E          |           | 3     |
| WSNTYPE  | 0          |           | 3     |
| WSNWSID  | A          |           | 3     |

### WSP - Workstation plan report record in DP

#### Example

Name : DCLWSP

Function:

describes layout of wsp records representing report data on operations on certain workstations in the new current plan. New first operations may appear both as an ordinary all operations record (subtype 16) and a first operation record (subtype 32) depending on report options selected. Note that there is additional record for all predecessors after the 2nd (see DCLDAIOP). An additional subsubtype of record is used to represent opentime interval (changes) with a key that sorts the opentime record before the operations planned in the opentime. The records have the standard recsize and keysize of DPIN records.

| Offsets                                         |      |           |     |            |                                                 |
|-------------------------------------------------|------|-----------|-----|------------|-------------------------------------------------|
| Dec                                             | Hex  | Type      | Len | Name (Dim) | Description                                     |
| 0                                               | (0)  | STRUCTURE | 250 | WSPAREA    | WSP RECORD                                      |
| 0                                               | (0)  | CHARACTER | 132 | WSPKEY     | KEY                                             |
| 0                                               | (0)  | SIGNED    | 2   | WSPTYPE    | TYPE IS ALWAYS 3                                |
| 2                                               | (2)  | CHARACTER | 8   | WSPROUT    | REPORT ROUTING                                  |
| 10                                              | (A)  | CHARACTER | 4   | WSPWSID    | WSID OF OPERATION                               |
| 14                                              | (E)  | SIGNED    | 2   | WSPSTYPE   | SUBTYPE 1 = (ALL) OPER. SUBTYPE 2 = FIRST OPER. |
| 16                                              | (10) | CHARACTER | 1   | WSPNONR    | NONREPORTING WS (Y/N)                           |
| 17                                              | (11) | CHARACTER | 10  | WSPPLNS    | OPERATION PLANNED START (OR WSO OPENTIME START) |
| 17                                              | (11) | CHARACTER | 6   | WSPPLNSD   | DAY (YYMMDD)                                    |
| 23                                              | (17) | CHARACTER | 4   | WSPPLNST   | TIME (HHMM)                                     |
| 23                                              | (17) | CHARACTER | 2   | WSPPLNSH   | TIME (HH )                                      |
| 25                                              | (19) | CHARACTER | 2   | WSPPLNSM   | TIME ( MM)                                      |
| 27                                              | (1B) | UNSIGNED  | 1   | WSPSSTYP   | 1 = OPENTIME RCD 2 = ORDINARY OPERATION RCD     |
| THE ABOVE FIELDS FILLED IN FOR ALL RECORD TYPES |      |           |     |            |                                                 |
| 28                                              | (1C) | CHARACTER | 10  | WSPOCIA    | OCC IA AFTER MCP                                |
| 28                                              | (1C) | CHARACTER | 6   | WSPOCIAD   | DAY (YYMMDD)   BLANK                            |
| 34                                              | (22) | CHARACTER | 4   | WSPOCIAT   | TIME (HHMM)   BLANK                             |
| 34                                              | (22) | CHARACTER | 2   | WSPOCIAH   | TIME (HH )                                      |

| Offsets |      |           |     |            |                                   |
|---------|------|-----------|-----|------------|-----------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                       |
| 36      | (24) | CHARACTER | 2   | WSPOCIAM   | TIME (MM)                         |
| 38      | (26) | CHARACTER | 19  | WSPID      |                                   |
| 38      | (26) | CHARACTER | 16  | WSPADID    | APPLICATION ID OF OPER.           |
| 54      | (36) | CHARACTER | 3   | WSPOPNO    | OPERATION NUMBER                  |
| 57      | (39) | CHARACTER | 41  | WSPPRE     | OPERATION PRED   BLANK            |
| 57      | (39) | CHARACTER | 16  | WSPPREOC   | PREDECESSOR ADID                  |
| 73      | (49) | CHARACTER | 3   | WSPPREOP   | PREDECESSOR OP NO   BLANK         |
| 76      | (4C) | CHARACTER | 4   | WSPPREWS   | PREDECESSOR WSID   BLANK          |
| 80      | (50) | CHARACTER | 8   | WSPPREJN   | PREDECESSOR JOBNAME   BLANK       |
| 88      | (58) | CHARACTER | 10  | WSPPREIA   | YYMMDDHHMM PRED IA   BLANK        |
| 88      | (58) | CHARACTER | 6   | WSPPREID   | YYMMDD                            |
| 94      | (5E) | CHARACTER | 2   | WSPPREIH   | HH                                |
| 96      | (60) | CHARACTER | 2   | WSPPREIM   | MM                                |
| 98      | (62) | CHARACTER | 34  | *          | ADJUST HEYLENGTJH                 |
| 132     | (84) | CHARACTER | 118 | WSPDATA    | DATA PART OF WSP RECORD           |
| 132     | (84) | CHARACTER | 1   | WSPOPPRI   | OPERATION PRIORITY                |
| 133     | (85) | CHARACTER | 1   | WSPWSTYP   | WORKSTATION TYPE                  |
| 134     | (86) | CHARACTER | 8   | WSPOPJOB   | OPERATION JOBNAME                 |
| 142     | (8E) | CHARACTER | 24  | WSPOPTXT   | OPERATION TEXT                    |
| 166     | (A6) | CHARACTER | 2   | WSPOPPS    | PARALLEL SERVERS                  |
| 168     | (A8) | CHARACTER | 2   | WSOPR1     | OPERATION R1 RESOURCE             |
| 170     | (AA) | CHARACTER | 2   | WSOPR2     | OPERATION R2 RESOURCE             |
| 172     | (AC) | CHARACTER | 8   | WSOPRES    | ID OF CRITICAL RESOURCE           |
| 180     | (B4) | CHARACTER | 1   | WSPOPEXC   | Y = EXCLUSIVE USE                 |
| 181     | (B5) | CHARACTER | 1   | WSPOPST    | OPERATION STATUS                  |
| 182     | (B6) | CHARACTER | 1   | WSOPRER    | Y = PLANNED RERUN, ELSE N         |
| 183     | (B7) | CHARACTER | 4   | WSOPDUR    | OPERATION DURATION HHMM REMAINING |

| Offsets                                                                                                       |      |           |     |            |                            |
|---------------------------------------------------------------------------------------------------------------|------|-----------|-----|------------|----------------------------|
| Dec                                                                                                           | Hex  | Type      | Len | Name (Dim) | Description                |
| 187                                                                                                           | (BB) | CHARACTER | 8   | WSPOPFRM   | OPERATION FORMNUMBER       |
| 195                                                                                                           | (C3) | CHARACTER | 1   | WSPOPCLS   | OPERATION JOB SYSOUT CLASS |
| 196                                                                                                           | (C4) | CHARACTER | 10  | WSPPLNE    | OPERATION PLANNED END      |
| 196                                                                                                           | (C4) | CHARACTER | 6   | WSPPLNED   | DAY (YYMMDD)               |
| 202                                                                                                           | (CA) | CHARACTER | 4   | WSPPLNET   | TIME (HHMM)                |
| 202                                                                                                           | (CA) | CHARACTER | 2   | WSPPLNEH   | TIME (HH)                  |
| 204                                                                                                           | (CC) | CHARACTER | 2   | WSPPLNEM   | TIME (MM)                  |
| 206                                                                                                           | (CE) | CHARACTER | 10  | WSPOPLU    | OPERATION LATEST OUT       |
| 206                                                                                                           | (CE) | CHARACTER | 6   | WSPOPLUD   | DAY (YYMMDD)               |
| 212                                                                                                           | (D4) | CHARACTER | 4   | WSPOPLUT   | TIME (HHMM)                |
| 212                                                                                                           | (D4) | CHARACTER | 2   | WSPOPLUH   | TIME (HH)                  |
| 214                                                                                                           | (D6) | CHARACTER | 2   | WSPOPLUM   | TIME (MM)                  |
| 216                                                                                                           | (D8) | CHARACTER | 1   | WSPOPDL    | Y IF DL = LATESTOUT ELSE N |
| 217                                                                                                           | (D9) | CHARACTER | 16  | WSPOWNER   | APPLICATION OWNER          |
| THE SECTION ABOVE NOT FILLED IN FOR OPENTIME RECORDS THE<br>SECTION BELOW FILLED IN FOR OPENTIME RECORDS ONLY |      |           |     |            |                            |
| 233                                                                                                           | (E9) | CHARACTER | 4   | WSPWSOET   | WS OPENTIME END HHMM       |
| 233                                                                                                           | (E9) | CHARACTER | 2   | WSPWSOEH   | TIME (HH)                  |
| 235                                                                                                           | (EB) | CHARACTER | 2   | WSPWSOEM   | TIME (MM)                  |
| 237                                                                                                           | (ED) | CHARACTER | 2   | WSPWSO#S   | WS OPENTIME NO OF SERVERS  |
| THE FIELD BELOW NOT FILLED IN FOR OPENTIME RECORDS                                                            |      |           |     |            |                            |
| 239                                                                                                           | (EF) | CHARACTER | 1   | WSPNEW     | NEW OPR FROM LTP Y   N     |
| THE FIELD FILLED IN FOR 1ST-OPER-SUBTYPE ONLY                                                                 |      |           |     |            |                            |
| 240                                                                                                           | (F0) | CHARACTER | 10  | WSPOPIA    | OPR IA (OR = OCC IA)       |
| 240                                                                                                           | (F0) | CHARACTER | 6   | WSPOPIAD   | DAY (YYMMDD)               |
| 246                                                                                                           | (F6) | CHARACTER | 4   | WSPOPIAT   | TIME (HHMM)                |
| 246                                                                                                           | (F6) | CHARACTER | 2   | WSPOPIAH   | TIME (HH)                  |
| 248                                                                                                           | (F8) | CHARACTER | 2   | WSPOPIAM   | TIME (MM)                  |

## Cross reference

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| WSPADID  | 26         |           | 4     |
| WSPAREA  | 0          |           | 1     |
| WSPDATA  | 84         |           | 2     |
| WSPID    | 26         |           | 3     |
| WSPKEY   | 0          |           | 2     |
| WSPNEW   | EF         |           | 3     |
| WSPNONR  | 10         |           | 3     |
| WSPOCIA  | 1C         |           | 3     |
| WSPOCIAD | 1C         |           | 4     |
| WSPOCIAH | 22         |           | 5     |
| WSPOCIAM | 24         |           | 5     |
| WSPOCIAT | 22         |           | 4     |
| WSPOPCLS | C3         |           | 3     |
| WSPOPDL  | D8         |           | 3     |
| WSPOPDUR | B7         |           | 3     |
| WSPOPEXC | B4         |           | 3     |
| WSPOPFRM | BB         |           | 3     |
| WSPOPIA  | F0         |           | 3     |
| WSPOPIAD | F0         |           | 4     |
| WSPOPIAH | F6         |           | 5     |
| WSPOPIAM | F8         |           | 5     |
| WSPOPIAT | F6         |           | 4     |
| WSPOPJOB | 86         |           | 3     |
| WSPOPLU  | CE         |           | 3     |
| WSPOPLUD | CE         |           | 4     |
| WSPOPLUH | D4         |           | 5     |
| WSPOPLUM | D6         |           | 5     |



| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| WSPOPLUT | D4         |           | 4     |
| WSPOPNO  | 36         |           | 4     |
| WSPOPPRI | 84         |           | 3     |
| WSPOPPS  | A6         |           | 3     |
| WSPOPRER | B6         |           | 3     |
| WSPOPRES | AC         |           | 3     |
| WSPOPR1  | A8         |           | 3     |
| WSPOPR2  | AA         |           | 3     |
| WSPOPST  | B5         |           | 3     |
| WSPOPTXT | 8E         |           | 3     |
| WSPOWNER | D9         |           | 3     |
| WSPPLNE  | C4         |           | 3     |
| WSPPLNED | C4         |           | 4     |
| WSPPLNEH | CA         |           | 5     |
| WSPPLNEM | CC         |           | 5     |
| WSPPLNET | CA         |           | 4     |
| WSPPLNS  | 11         |           | 3     |
| WSPPLNSD | 11         |           | 4     |
| WSPPLNSH | 17         |           | 5     |
| WSPPLNSM | 19         |           | 5     |
| WSPPLNST | 17         |           | 4     |
| WSPPRE   | 39         |           | 3     |
| WSPPREIA | 58         |           | 4     |
| WSPPREID | 58         |           | 5     |
| WSPPREIH | 5E         |           | 5     |
| WSPPREIM | 60         |           | 5     |
| WSPPREJN | 50         |           | 4     |
| WSPPREOC | 39         |           | 4     |

| Name     | Hex Offset | Hex Value | Level |
|----------|------------|-----------|-------|
| WSPPREOP | 49         |           | 4     |
| WSPPREWS | 4C         |           | 4     |
| WSPROUT  | 2          |           | 3     |
| WSPSSTYP | 1B         |           | 3     |
| WSPSTYPE | E          |           | 3     |
| WSPTYPE  | 0          |           | 3     |
| WSPWSID  | A          |           | 3     |
| WSPWSO#S | ED         |           | 3     |
| WSPWSOEH | E9         |           | 4     |
| WSPWSOEM | EB         |           | 4     |
| WSPWSOET | E9         |           | 3     |
| WSPWSTYP | 85         |           | 3     |

## WSV - Virtual workstation description record

### Example

Name : DCLWSV

Function:

This segment declares a virtual workstation definition, physically located in the workstation description database (EQQWSDS). For each actual destination associated to a virtual workstation, defines the same kind of information as WSD. The WSV structure is as follows:

1 WSV

2 common data

2 a table with one row per day defined describing the day

2 a table with one row per open time interval describing the interval

Each entry in the day table contains an index into the interval table for the first interval defined for that particular day.

### Example

| Offsets | Type          | Len | Name      | Description       |
|---------|---------------|-----|-----------|-------------------|
| 0       | (0) CHARACTER | 76  | WSVCOMMON |                   |
| 0       | (0) CHARACTER | 2   | WSVKEYID  | ALWAYS '22'       |
| 2       | (2) CHARACTER | 8   | WSVKEY    |                   |
| 2       | (2) CHARACTER | 4   | WSVWSNAM  | WORKSTATION NAME  |
| 6       | (6) SIGNED    | 4   | WSVSEQNO  | DESTINATION ID    |
| 10      | (A) CHARACTER | 4   | WSVEYE    | EYECATCHER 'WSV ' |

|    |      |           |   |            |                           |
|----|------|-----------|---|------------|---------------------------|
| 14 | (E)  | UNSIGNED  | 1 | WSVVERS    | VERSION NUMBER            |
| 15 | (F)  | CHARACTER | 1 | WSVPSERV   | SERVER USAGE (N/C)        |
| 16 | (10) | CHARACTER | 8 | *          | FREE                      |
| 24 | (18) | CHARACTER | 8 | WSVDESTN   | DESTINATION NAME          |
| 32 | (20) | SIGNED    | 2 | WSVDAY#    | NUMBER OF DAYS            |
| 34 | (22) | SIGNED    | 2 | WSVTOTIVL# | NUMBER OF IVL             |
| 36 | (24) | CHARACTER | 8 | WSVLUTS    | LAST UPDATE TOD           |
| 44 | (2C) | CHARACTER | 8 | WSVUSER    | LAST UPDATE USER          |
| 52 | (34) | CHARACTER | 6 | WSVUPDAT   | LATEST UPDATE, THIS WSD   |
| 58 | (3A) | CHARACTER | 4 | WSVUPTI    | LATEST UPDATE TIME        |
| 62 | (3E) | CHARACTER | 2 | WSVR1NAM   | WS RESOURCE NAME          |
| 64 | (40) | CHARACTER | 2 | WSVR1FLG   | RESOURCE INDICATORS       |
|    |      | 1... .... |   | WSVR1PLAN  | RESOURCE USED AT PLANNING |
|    |      | .1.. .... |   | WSVR1CONT  | RESOURCE USED AT CONTROL  |
| 64 | (40) | BITSTRING | 1 | *          | FREE                      |
| 66 | (42) | CHARACTER | 2 | WSVR2NAM   | WS RESOURCE NAME          |
| 68 | (44) | CHARACTER | 2 | WSVR2FLG   | RESOURCE INDICATORS       |
|    |      | 1... .... |   | WSVR2PLAN  | RESPURCE USED AT PLANNING |
|    |      | .1.. .... |   | WSVR2CONT  | RESOURCE USED AT CONTROL  |
| 68 | (44) | BITSTRING | 1 | *          | FREE                      |
| 70 | (46) | CHARACTER | 6 | *          | FREE                      |
| 76 | (4C) | CHARACTER | * | WSVVARSECT | VARIABLE SECTION          |

**Example**

| DAY RELATED INFORMATION |           |     |              |                            |  |
|-------------------------|-----------|-----|--------------|----------------------------|--|
| Offsets                 | Type      | Len | Name         | Description                |  |
| 76 (4C)                 | STRUCTURE | 52  | WSVDAY(*)    |                            |  |
| 76 (4C)                 | CHARACTER | 6   | WSVDATE      | SPECIFIC DATE              |  |
| 76 (4C)                 | SIGNED    | 2   | WSVDAYNO     | 1-MONDAY 7-SUNDAY 8-STAND  |  |
| 82 (52)                 | CHARACTER | 24  | WSVDESD      | DESCRIPTION OF DAY         |  |
| 106 (6A)                | BITSTRING | 1   | WSVDFLG      |                            |  |
|                         | 1... .... |     | WSVDSPECIFIC | SPECIFIC DAY INDICATOR     |  |
| 107 (6B)                | CHARACTER | 13  | *            | FREE                       |  |
| 120 (78)                | SIGNED    | 4   | WSVDIVL#     | NO. OF INTERVALS           |  |
| 124 (7C)                | SIGNED    | 4   | WSVIVL_IX    | INDEX OF FIRST OPEN TIME.. |  |
|                         |           |     |              | ..INTERVAL FOR THIS DAY    |  |

**Example**

| OPEN TIME INTERVAL INFORMATION |           |     |           |                         |  |
|--------------------------------|-----------|-----|-----------|-------------------------|--|
| Offsets                        | Type      | Len | Name      | Description             |  |
| 0 (0)                          | STRUCTURE | 32  | WSVIVL(*) |                         |  |
| 0 (0)                          | CHARACTER | 4   | WSVSTART  | START TIME OF INTERVAL  |  |
| 4 (4)                          | CHARACTER | 4   | WSVENDT   | END TIME OF INTERVAL    |  |
| 8 (8)                          | UNSIGNED  | 2   | WSVSERV#  | NUMBER OF PARALLEL SERV |  |
| 10 (A)                         | UNSIGNED  | 2   | WSVR1CAP  | RESOURCE CAPACITY       |  |
| 12 (C)                         | UNSIGNED  | 2   | WSVR2CAP  | RESOURCE CAPACITY       |  |
| 14 (E)                         | CHARACTER | 4   | *         |                         |  |
| 18 (12)                        | CHARACTER | 14  | *         | FREE                    |  |

**Cross reference****Example**

| NAME         | HEX<br>OFFSET | HEX<br>VALUE | LEVEL |
|--------------|---------------|--------------|-------|
| ----         | -----         | -----        | ----- |
| WSV          | 0             |              | 1     |
| WSVCOMMON    | 0             |              | 2     |
| WSVDATE      | 4C            |              | 2     |
| WSVDAY       | 4C            |              | 1     |
| WSVDAY#      | 20            |              | 3     |
| WSVDAYNO     | 4C            |              | 3     |
| WSVDESD      | 52            |              | 2     |
| WSVDESTN     | 18            |              | 3     |
| WSVDFLG      | 6A            |              | 2     |
| WSVDIVL#     | 78            |              | 2     |
| WSVDSPECIFIC | 6A            | 80           | 3     |
| WSVENDT      | 4             |              | 2     |
| WSVEYE       | A             |              | 3     |
| WSVIVL       | 0             |              | 1     |
| WSVIVL_IX    | 7C            |              | 2     |
| WSVKEY       | 2             |              | 3     |
| WSVKEYID     | 0             |              | 3     |
| WSVLUTS      | 24            |              | 3     |
| WSVPSESV     | F             |              | 3     |
| WSVR1CAP     | A             |              | 2     |
| WSVR1CONT    | 40            | 40           | 4     |
| WSVR1FLG     | 40            |              | 3     |
| WSVR1NAM     | 3E            |              | 3     |
| WSVR1PLAN    | 40            | 80           | 4     |
| WSVR2CAP     | C             |              | 2     |
| WSVR2CONT    | 44            | 40           | 4     |
| WSVR2FLG     | 44            |              | 3     |
| WSVR2NAM     | 42            |              | 3     |
| WSVR2PLAN    | 44            | 80           | 4     |
| WSVSEQNO     | 6             |              | 4     |
| WSVSERV#     | 8             |              | 2     |
| WSVSTART     | 0             |              | 2     |
| WSVTOTIVL#   | 22            |              | 3     |
| WSVUPDAT     | 34            |              | 3     |
| WSVUPTI      | 3A            |              | 3     |
| WSVUSER      | 2C            |              | 3     |
| WSVVARSECT   | 4C            |              | 2     |
| WSVVERS      | E             |              | 3     |
| WSVWSNAM     | 2             |              | 4     |

## XD01 - XD Header record

### Example

Name : DCLXD01

Function:

Cross dependencies header.

| Offsets |     |           |     |            |             |
|---------|-----|-----------|-----|------------|-------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description |
| 0       | (0) | STRUCTURE | 244 | XDREC01    |             |

Key:

| Offsets |     |           |     |            |                       |
|---------|-----|-----------|-----|------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description           |
| 0       | (0) | CHARACTER | 68  | XDKEY01    |                       |
| 0       | (0) | CHARACTER | 2   | XDKYP01    | TYPE IS ALWAYS 01     |
| 2       | (2) | CHARACTER | 66  | XDKF01     | SHOULD CONTAIN BLANKS |

Body:

| Offsets |      |           |     |            |                           |
|---------|------|-----------|-----|------------|---------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description               |
| 68      | (44) | CHARACTER | 176 | XDBDY01    | HDR RECORD BODY           |
| 68      | (44) | CHARACTER | 4   | XDEYE01    | EYECATCHER                |
| 72      | (48) | UNSIGNED  | 1   | XDVERS01   | VERSION NUMBER            |
| 73      | (49) | CHARACTER | 1   | *          | FREE                      |
| 74      | (4A) | CHARACTER | 10  | XDCR       | CURRENT PLAN CREATION     |
| 74      | (4A) | CHARACTER | 6   | XDCRDAT    | DATE                      |
| 80      | (50) | CHARACTER | 4   | XDCRTIM    | TIME                      |
| 84      | (54) | CHARACTER | 10  | XDEND      | LAST PLAN NEXT PERIOD END |
| 84      | (54) | CHARACTER | 6   | XDENDAT    | DATE                      |
| 90      | (5A) | CHARACTER | 4   | XDENTIM    | TIME                      |
| 94      | (5E) | CHARACTER | 10  | XDBU       | LAST BACKUP               |
| 94      | (5E) | CHARACTER | 6   | XDBUDAT    | DATE                      |
| 100     | (64) | CHARACTER | 4   | XDBUTIM    | TIME                      |
| 104     | (68) | CHARACTER | 10  | XDLP       | TAIL END                  |
| 104     | (68) | CHARACTER | 6   | XDLPDAT    | DATE                      |
| 110     | (6E) | CHARACTER | 4   | XDLPTIM    | TIME                      |

| Offsets |      |           |     |            |                                           |
|---------|------|-----------|-----|------------|-------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                               |
| 114     | (72) | CHARACTER | 10  | XDREPS     | REPORT PERIOD START                       |
| 114     | (72) | CHARACTER | 6   | XDREPSD    | DATE                                      |
| 120     | (78) | CHARACTER | 4   | XDREPST    | TIME                                      |
| 124     | (7C) | CHARACTER | 10  | XDLEVEL    | XD level                                  |
| 124     | (7C) | CHARACTER | 2   | XDLEV_VER  | -- version                                |
| 126     | (7E) | CHARACTER | 8   | XDLEV_FMID | -- fmid                                   |
| 134     | (86) | CHARACTER | 10  | XDINIT     | blank or 'Init Empty'                     |
| 144     | (90) | CHARACTER | 1   | XD01DPSET  | Y: XD99 to be processed for status change |
| 145     | (91) | CHARACTER | 99  | *          | free                                      |

## Constants

| Offsets |     |           |      |            |                      |
|---------|-----|-----------|------|------------|----------------------|
| Dec     | Hex | Type      | Len  | Name (Dim) | Description          |
| 2       |     | DECIMAL   | 244  | MAXLENXD01 |                      |
| 2       |     | CHARACTER | 01   | XDTP01     | first 2 bytes of key |
| 4       |     | CHARACTER | XD01 | XDEYEC01   | EYecatcher           |
| 1       |     | DECIMAL   | 1    | XDVERSC01  | version number       |

## Cross reference

| Name    | Hex Offset | Hex Value | Level |
|---------|------------|-----------|-------|
| XDBDY01 | 44         |           | 2     |
| XDBU    | 5E         |           | 3     |
| XBUDAT  | 5E         |           | 4     |
| XDBUTIM | 64         |           | 4     |
| XDCR    | 4A         |           | 3     |
| XDCRDAT | 4A         |           | 4     |
| XDCRTIM | 50         |           | 4     |
| XDEND   | 54         |           | 3     |

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| XDENDAT    | 54         |           | 4     |
| XDENTIM    | 5A         |           | 4     |
| XDEYE01    | 44         |           | 3     |
| XDINIT     | 86         |           | 3     |
| XDKEY01    | 0          |           | 2     |
| XDKF01     | 2          |           | 3     |
| XDKYP01    | 0          |           | 3     |
| XDLEV_FMID | 7E         |           | 4     |
| XDLEV_VER  | 7C         |           | 4     |
| XDLEVEL    | 7C         |           | 3     |
| XDLP       | 68         |           | 3     |
| XDLPDAT    | 68         |           | 4     |
| XDLP TIM   | 6E         |           | 4     |
| XDREC01    | 0          |           | 1     |
| XDREPS     | 72         |           | 3     |
| XDREPSD    | 72         |           | 4     |
| XDREPST    | 78         |           | 4     |
| XDVERS01   | 48         |           | 3     |
| XD01DPSET  | 90         |           | 3     |

## XD02 - XD Header record

### Example

Name : DCLXD02

Function:

This record is built for each Bind Request coming from a remote engine and keep trace of its status and match in the plan.

| Offsets |     |           |     |            |               |
|---------|-----|-----------|-----|------------|---------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description   |
| 0       | (0) | STRUCTURE | *   | XDREC02    | XD HDR RECORD |

Key:

| Offsets |      |           |     |            |                       |
|---------|------|-----------|-----|------------|-----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description           |
| 0       | (0)  | CHARACTER | 68  | XDKEY02    |                       |
| 0       | (0)  | CHARACTER | 2   | XDKYP02    | TYPE IS ALWAYS 02     |
| 2       | (2)  | CHARACTER | 64  | XDREQ02    |                       |
| 2       | (2)  | CHARACTER | 8   | XDKDEST02  | REQUESTER DESTINATION |
| 10      | (A)  | CHARACTER | 56  | XDKALIAS02 | REQUESTER ALIAS       |
| 66      | (42) | CHARACTER | 2   | XDKF02     | FREE                  |

Body:

| Offsets |      |           |     |             |                              |
|---------|------|-----------|-----|-------------|------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                  |
| 68      | (44) | CHARACTER | 224 | XDBDY02     | HDR RECORD BODY              |
| 68      | (44) | CHARACTER | 4   | XDEYE02     | EYECATCHER                   |
| 72      | (48) | UNSIGNED  | 1   | XDVERS02    | VERSION NUMBER               |
| 73      | (49) | CHARACTER | 1   | XD02STAT    | SUBSCRIBE STATUS (see below) |
| 74      | (4A) | UNSIGNED  | 1   | XD02FLAGS   | MATCHING CRITERIA FLAGS:     |
|         |      | 1... .... |     | XD02WAITWQA | ON: started on a wait ws     |
|         |      | .1.. .... |     | XD02FAILNFY | ON: failed to notify         |
|         |      | ..1. .... |     | XD02EVOP    | ON: started executing        |
|         |      | ...1 .... |     | XD02RECOV   | ON: recovery in progress     |
|         |      | .... 1111 |     | *           | FREE                         |
| 75      | (4B) | UNSIGNED  | 1   | *           | FREE                         |
| 76      | (4C) | CHARACTER | 8   | XD02TOK     | XD02 ID: CREATION TOD        |
| 84      | (54) | SIGNED    | 2   | XD02ADEST#  | Number of alternate Dest     |
| 86      | (56) | SIGNED    | 2   | XD02OPN     | OPERATION NUMBER TO BIND     |
| 88      | (58) | CHARACTER | 16  | XD02ADID    | APPLICATION NAME TO BIND     |
| 104     | (68) | CHARACTER | 10  | XD02BASEIA  | Base IA for matching         |
| 104     | (68) | CHARACTER | 6   | XD02BASEIAD | - YYMMDD                     |



| Offsets |      |           |     |                |                               |
|---------|------|-----------|-----|----------------|-------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)     | Description                   |
| 110     | (6E) | CHARACTER | 4   | XD02BASEIAT    | - HHMM                        |
| 114     | (72) | CHARACTER | 10  | XD02IFROMIA    | match Interval start:         |
| 114     | (72) | CHARACTER | 6   | XD02IFROMIAD   | - YYMMDD                      |
| 120     | (78) | CHARACTER | 4   | XD02IFROMIAT   | - HHMM                        |
| 124     | (7C) | CHARACTER | 10  | XD02ITOIA      | match Interval end:           |
| 124     | (7C) | CHARACTER | 6   | XD02ITOIAD     | - YYMMDD                      |
| 130     | (82) | CHARACTER | 4   | XD02ITOIAT     | - HHMM                        |
| 134     | (86) | CHARACTER | 26  | XD02LTPKEY     | LTP key (used during pending) |
| 134     | (86) | CHARACTER | 6   | XD02LOCCDATE   | - Run dateYYMMDD              |
| 140     | (8C) | CHARACTER | 16  | XD02LOCCNAME   | - Application Name            |
| 156     | (9C) | CHARACTER | 4   | XD02LOCCTIME   | - IA@ time HHMM               |
| 160     | (A0) | CHARACTER | 8   | XD02CP3COCCTOK | Occurrence Token of operation |
| 168     | (A8) | CHARACTER | 10  | XD02JSTART     | Matched job start             |
| 168     | (A8) | CHARACTER | 6   | XD02JSTARTD    | ... date                      |
| 174     | (AE) | SIGNED    | 4   | XD02JSTARTT    | ... time                      |
| 178     | (B2) | CHARACTER | 1   | XD02JSTAT      | Matched job status            |
| 179     | (B3) | CHARACTER | 1   | *              | FREE                          |
| 180     | (B4) | CHARACTER | 10  | XD02JEND       | Matched job end               |
| 180     | (B4) | CHARACTER | 6   | XD02JENDD      | ... date                      |
| 186     | (BA) | SIGNED    | 4   | XD02JENDT      | ... time                      |
| 190     | (BE) | CHARACTER | 8   | XD02JNAME      | Matched job name              |
| 198     | (C6) | CHARACTER | 4   | XD02JEC        | Matched job error code        |
| 202     | (CA) | CHARACTER | 4   | XD02WSNAME     | matched ws name               |
| 206     | (CE) | SIGNED    | 2   | XD02IAGMT      | gmt for IA conversion         |
| 208     | (D0) | SIGNED    | 2   | XD02JSGMT      | gmt for start time conv       |
| 210     | (D2) | SIGNED    | 2   | XD02JEGMT      | gmt for end time conv         |
| 212     | (D4) | SIGNED    | 4   | XD02DIDX       | destination index             |

| Offsets |      |           |     |            |                         |
|---------|------|-----------|-----|------------|-------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description             |
| 216     | (D8) | SIGNED    | 4   | XD02JADUR  | actual duration in secs |
| 220     | (DC) | CHARACTER | 72  | *          | FREE                    |

Variable part:

| Offsets |       |           |     |            |             |
|---------|-------|-----------|-----|------------|-------------|
| Dec     | Hex   | Type      | Len | Name (Dim) | Description |
| 292     | (124) | CHARACTER | *   | XDVAR02    | VAR DATA    |

Alternate dest variable part:

| Offsets |     |           |     |             |                       |
|---------|-----|-----------|-----|-------------|-----------------------|
| Dec     | Hex | Type      | Len | Name (Dim)  | Description           |
| 0       | (0) | STRUCTURE | 16  | XDADEST(*)  |                       |
| 0       | (0) | CHARACTER | 8   | XDADESTNAME | DESTINATION NAME      |
| 8       | (8) | SIGNED    | 4   | XDADIDX     | DESTINATION DTB index |
| 12      | (C) | SIGNED    | 4   | *           | free                  |

Constants

| Offsets |     |           |      |            |                          |
|---------|-----|-----------|------|------------|--------------------------|
| Dec     | Hex | Type      | Len  | Name (Dim) | Description              |
| 2       |     | CHARACTER | 02   | XDTYP02    | first 2 bytes of key     |
| 4       |     | CHARACTER | XD02 | XDEYEC02   | EYecatcher               |
| 1       |     | CHARACTER | 1    | XDVERSC02  | version number           |
| 1       |     | CHARACTER | L    | WAITLT_XD2 | L waiting for LTP        |
| 1       |     | CHARACTER | K    | LTLOCK_XD2 | K waiting for LTP lock   |
| 1       |     | CHARACTER | P    | WAITCP_XD2 | P waiting for CP         |
| 1       |     | CHARACTER | S    | SENDCH_XD2 | S sending status changes |
| 1       |     | CHARACTER | E    | NOTBND_XD2 | E not bound              |
| 1       |     | CHARACTER | C    | KILLED_XD2 | C killed                 |
| 1       |     | CHARACTER | D    | DELETE_XD2 | D deleted                |

## Cross reference

| Name           | Hex Offset | Hex Value | Level |
|----------------|------------|-----------|-------|
| XDADEST        | 0          |           | 1     |
| XDADESTNAME    | 0          |           | 2     |
| XDADIDX        | 8          |           | 2     |
| XDBDY02        | 44         |           | 2     |
| XDEYE02        | 44         |           | 3     |
| XDKALIAS02     | A          |           | 4     |
| XDKDEST02      | 2          |           | 4     |
| XDKEY02        | 0          |           | 2     |
| XDKF02         | 42         |           | 3     |
| XDKYP02        | 0          |           | 3     |
| XDREC02        | 0          |           | 1     |
| XDREQ02        | 2          |           | 3     |
| XDVAR02        | 124        |           | 2     |
| XDVERS02       | 48         |           | 3     |
| XD02ADEST#     | 54         |           | 3     |
| XD02ADID       | 58         |           | 3     |
| XD02BASEIA     | 68         |           | 3     |
| XD02BASEIAD    | 68         |           | 4     |
| XD02BASEIAT    | 6E         |           | 4     |
| XD02CP3COCCTOK | A0         |           | 3     |
| XD02DIDX       | D4         |           | 3     |
| XD02EVOP       | 4A         | 20        | 4     |
| XD02FAILNFY    | 4A         | 40        | 4     |
| XD02FLAGS      | 4A         |           | 3     |
| XD02IAGMT      | CE         |           | 3     |
| XD02IFROMIA    | 72         |           | 3     |
| XD02IFROMIAD   | 72         |           | 4     |

| Name         | Hex Offset | Hex Value | Level |
|--------------|------------|-----------|-------|
| XD02IFROMIAT | 78         |           | 4     |
| XD02ITOIA    | 7C         |           | 3     |
| XD02ITOIAD   | 7C         |           | 4     |
| XD02ITOIAT   | 82         |           | 4     |
| XD02JADUR    | D8         |           | 3     |
| XD02JEC      | C6         |           | 3     |
| XD02JEGMT    | D2         |           | 3     |
| XD02JEND     | B4         |           | 3     |
| XD02JENDD    | B4         |           | 4     |
| XD02JENDT    | BA         |           | 4     |
| XD02JNAME    | BE         |           | 3     |
| XD02JSGMT    | D0         |           | 3     |
| XD02JSTART   | A8         |           | 3     |
| XD02JSTARTD  | A8         |           | 4     |
| XD02JSTARTT  | AE         |           | 4     |
| XD02JSTAT    | B2         |           | 3     |
| XD02LOCCDATE | 86         |           | 4     |
| XD02LOCCNAME | 8C         |           | 4     |
| XD02LOCCTIME | 9C         |           | 4     |
| XD02LTPKEY   | 86         |           | 3     |
| XD02OPN      | 56         |           | 3     |
| XD02RECOV    | 4A         | 10        | 4     |
| XD02STAT     | 49         |           | 3     |
| XD02TOK      | 4C         |           | 3     |
| XD02WAITWQA  | 4A         | 80        | 4     |
| XD02WSNAME   | CA         |           | 3     |

## XD03 - XD HDR RECORD

### Example

Name : DCLXD03

Function:

This record is built for each operation belonging to completed occurrences whose IA satisfies

LTPREMSHIFT criteria.

| Offsets |     |           |     |            |               |
|---------|-----|-----------|-----|------------|---------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description   |
| 0       | (0) | STRUCTURE | 76  | XDREC03    | XD HDR RECORD |

KEY

| Offsets |      |           |     |            |                   |
|---------|------|-----------|-----|------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description       |
| 0       | (0)  | CHARACTER | 68  | XDKEY03    |                   |
| 0       | (0)  | CHARACTER | 2   | XDTP03     | TYPE IS ALWAYS 03 |
| 2       | (2)  | CHARACTER | 64  | XDOCC03    |                   |
| 2       | (2)  | CHARACTER | 16  | XDOCCADID  |                   |
| 18      | (12) | CHARACTER | 10  | XDOCCIA    |                   |
| 18      | (12) | CHARACTER | 6   | XDOCCIAD   |                   |
| 24      | (18) | CHARACTER | 4   | XDOCCIAT   |                   |
| 28      | (1C) | CHARACTER | 38  | *          | blank             |
| 66      | (42) | CHARACTER | 2   | *          | FREE              |

BODY

| Offsets |      |           |     |            |                 |
|---------|------|-----------|-----|------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description     |
| 68      | (44) | CHARACTER | 8   | XDBDY03    | HDR RECORD BODY |
| 68      | (44) | CHARACTER | 4   | XDEYE03    | EYECATCHER      |
| 72      | (48) | UNSIGNED  | 1   | XDVERS03   | VERSION NUMBER  |
| 73      | (49) | CHARACTER | 1   | XD03STAT   | STATUS          |
| 74      | (4A) | CHARACTER | 2   | *          | FREE            |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| XDBDY03   | 44         |           | 2     |
| XDEYE03   | 44         |           | 3     |
| XDKEY03   | 0          |           | 2     |
| XDOCCADID | 2          |           | 4     |
| XDOCCIA   | 12         |           | 4     |
| XDOCCIAD  | 12         |           | 5     |
| XDOCCIAT  | 18         |           | 5     |
| XDOCC03   | 2          |           | 3     |
| XDREC03   | 0          |           | 1     |
| XDTYP03   | 0          |           | 3     |
| XDVERS03  | 48         |           | 3     |
| XD03STAT  | 49         |           | 3     |

## XD12 - XD HDR RECORD

Name: DCLXD12

Function:

This record is built for dependency waiting for a mandatory pending entry.

| Offsets |     |           |     |            |               |
|---------|-----|-----------|-----|------------|---------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description   |
| 0       | (0) | STRUCTURE | 80  | XDREC12    | XD HDR RECORD |

## KEY

| Offsets |     |           |     |            |                   |
|---------|-----|-----------|-----|------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description       |
| 0       | (0) | CHARACTER | 68  | XDKEY12    |                   |
| 0       | (0) | CHARACTER | 2   | XDTP12     | TYPE IS ALWAYS 12 |

Mandatory pred id to be solved a dummy occ with status M  
and IA XDIOIA12 exist

| Offsets |      |           |     |             |                      |
|---------|------|-----------|-----|-------------|----------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description          |
| 2       | (2)  | CHARACTER | 16  | XDMPREDAD12 | MANDATORY PRED ADID  |
| 18      | (12) | SIGNED    | 2   | XDMPREDOP12 | MANDATORY PRED OPNUM |

Successor id in CP real existing occopr

| Offsets |      |           |     |             |                 |
|---------|------|-----------|-----|-------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description     |
| 20      | (14) | CHARACTER | 16  | XDSUCCAD12  | SUCCESSOR ADID  |
| 36      | (24) | SIGNED    | 2   | XDSUCCOP12  | SUCCESSOR OPNUM |
| 38      | (26) | CHARACTER | 10  | XDSUCCIA12  | SUCCESSOR IA    |
| 38      | (26) | CHARACTER | 6   | XDSUCCIAD12 | - date          |
| 44      | (2C) | CHARACTER | 4   | XDSUCCIAT12 | - time          |

Time

range where real occ must belong to solve this mandatory  
pending dependency

| Offsets |      |           |     |            |                        |
|---------|------|-----------|-----|------------|------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description            |
| 48      | (30) | CHARACTER | 10  | XDFROMIA12 | FROM IA allowed values |
| 58      | (3A) | CHARACTER | 10  | XDTOIA12   | TO IA allowed values   |

BODY

| Offsets |      |           |     |             |                                              |
|---------|------|-----------|-----|-------------|----------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim)  | Description                                  |
| 68      | (44) | CHARACTER | 12  | XDBDY12     | HDR RECORD BODY                              |
| 68      | (44) | CHARACTER | 4   | XDEYE12     | EYECATCHER                                   |
| 72      | (48) | UNSIGNED  | 1   | XDVERS12    | VERSION NUMBER                               |
| 73      | (49) | CHARACTER | 1   | XDSTAT12    | STATUS - W waiting - C completed - D deleted |
| 74      | (4A) | UNSIGNED  | 3   | XD12SuccOCC | VSAM OCC num                                 |
| 77      | (4D) | CHARACTER | 3   | *           | FREE                                         |

## Cross reference

| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| XDBDY12     | 44         |           | 2     |
| XDEYE12     | 44         |           | 3     |
| XDFROMIA12  | 30         |           | 3     |
| XDKEY12     | 0          |           | 2     |
| XDMPREDAD12 | 2          |           | 3     |



| Name        | Hex Offset | Hex Value | Level |
|-------------|------------|-----------|-------|
| XDMPREDOP12 | 12         |           | 3     |
| XDREC12     | 0          |           | 1     |
| XDSTAT12    | 49         |           | 3     |
| XDSUCCAD12  | 14         |           | 3     |
| XDSUCCIAD12 | 26         |           | 4     |
| XDSUCCIAT12 | 2C         |           | 4     |
| XDSUCCIA12  | 26         |           | 3     |
| XDSUCCOP12  | 24         |           | 3     |
| XDTOIA12    | 3A         |           | 3     |
| XDTYP12     | 0          |           | 3     |
| XDVERS12    | 48         |           | 3     |
| XD12SuccOCC | 4A         |           | 3     |

## XD98 - XD Index record

### Example

Name : DCLXD98

Function:

Remote engine can send further requests after the bind and it only knows the alias, not the index.

This index record maps an alias with an XD02 key (dest+alias).

| Offsets |     |           |     |            |                 |
|---------|-----|-----------|-----|------------|-----------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description     |
| 0       | (0) | STRUCTURE | 164 | XDREC98    | XD INDEX RECORD |

| Offsets |      |           |     |            |                   |
|---------|------|-----------|-----|------------|-------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description       |
| 0       | (0)  | CHARACTER | 68  | XDKEY98    |                   |
| 0       | (0)  | CHARACTER | 2   | XDKYP98    | TYPE IS ALWAYS 99 |
| 2       | (2)  | CHARACTER | 56  | XDKALIAS98 | XD02 TOK KEY      |
| 58      | (3A) | CHARACTER | 10  | XDKF98     | FREE              |

Body:

| Offsets |      |           |     |            |                 |
|---------|------|-----------|-----|------------|-----------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description     |
| 68      | (44) | CHARACTER | 96  | XDBDY98    | HDR RECORD BODY |
| 68      | (44) | CHARACTER | 4   | XDEYE98    | EYECATCHER      |
| 72      | (48) | UNSIGNED  | 1   | XDVERS98   | VERSION NUMBER  |
| 73      | (49) | UNSIGNED  | 3   | *          | free            |
| 76      | (4C) | CHARACTER | 8   | XDDEST98   | DESTINATION     |
| 84      | (54) | CHARACTER | 80  | *          | FREE            |

Constants

| Offsets |     |           |      |            |                      |
|---------|-----|-----------|------|------------|----------------------|
| Dec     | Hex | Type      | Len  | Name (Dim) | Description          |
| 2       |     | CHARACTER | 98   | XDTPY98    | first 2 bytes of key |
| 4       |     | CHARACTER | XD98 | XDEYEC98   | EYEcatcher           |
| 1       |     | DECIMAL   | 1    | XDVERSC98  | version number       |

## Cross reference

| Name       | Hex Offset | Hex Value | Level |
|------------|------------|-----------|-------|
| XDBDY98    | 44         |           | 2     |
| XDDEST98   | 4C         |           | 3     |
| XDEYE98    | 44         |           | 3     |
| XDKALIAS98 | 2          |           | 3     |
| XDKEY98    | 0          |           | 2     |
| XDKF98     | 3A         |           | 3     |
| XDKYP98    | 0          |           | 3     |
| XDREC98    | 0          |           | 1     |
| XDVERS98   | 48         |           | 3     |

## XD99 - XD Index record

Example

Name : DCLXD99

Function:

Cross dependencies internal index.

| Offsets |     |           |     |            |                 |
|---------|-----|-----------|-----|------------|-----------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description     |
| 0       | (0) | STRUCTURE | 225 | XDREC99    | XD INDEX RECORD |

Key:

| Offsets |     |           |     |            |                   |
|---------|-----|-----------|-----|------------|-------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description       |
| 0       | (0) | CHARACTER | 68  | XDKEY99    |                   |
| 0       | (0) | CHARACTER | 2   | XDKYP99    | TYPE IS ALWAYS 99 |
| 2       | (2) | CHARACTER | 8   | XDKTOK99   | XD02 TOK KEY      |
| 10      | (A) | CHARACTER | 58  | XDKF99     | FREE              |

Body:

| Offsets |      |           |     |            |                                                                                                 |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                                     |
| 68      | (44) | CHARACTER | 157 | XDBDY99    | HDR RECORD BODY                                                                                 |
| 68      | (44) | CHARACTER | 4   | XDEYE99    | EYECATCHER                                                                                      |
| 72      | (48) | UNSIGNED  | 1   | XDVERS99   | VERSION NUMBER                                                                                  |
| 73      | (49) | CHARACTER | 64  | XD99_XD02  | XD02 key                                                                                        |
| 73      | (49) | CHARACTER | 8   | XD99DEST   | - DESTINATION                                                                                   |
| 81      | (51) | CHARACTER | 56  | XD99ALIAS  | - ALIAS                                                                                         |
| 137     | (89) | CHARACTER | 8   | XD99OCCTOK | - OCC TOKEN                                                                                     |
| 145     | (91) | CHARACTER | 1   | XD99STAT   | XD02 status                                                                                     |
| 146     | (92) | CHARACTER | 1   | XD99DPSET  | 'Y' when DP batch changes job status (OPRDPSET=on) NOTE: it is left 'Y' until NMM/EM process it |
| 147     | (93) | CHARACTER | 78  | *          | FREE                                                                                            |

Constants

| Offsets |     |           |      |            |                      |
|---------|-----|-----------|------|------------|----------------------|
| Dec     | Hex | Type      | Len  | Name (Dim) | Description          |
| 2       |     | CHARACTER | 99   | XDTYP99    | first 2 bytes of key |
| 4       |     | CHARACTER | XD99 | XDEYEC99   | EYecatcher           |
| 1       |     | DECIMAL   | 1    | XDVERSC99  | version number       |

## Cross reference

| Name      | Hex Offset | Hex Value | Level |
|-----------|------------|-----------|-------|
| XDBDY99   | 44         |           | 2     |
| XDEYE99   | 44         |           | 3     |
| XDKEY99   | 0          |           | 2     |
| XDKF99    | A          |           | 3     |
| XDKTOK99  | 2          |           | 3     |
| XDKYP99   | 0          |           | 3     |
| XDREC99   | 0          |           | 1     |
| XDVERS99  | 48         |           | 3     |
| XD99_XD02 | 49         |           | 3     |
| XD99ALIAS | 51         |           | 4     |
| XD99DEST  | 49         |           | 4     |
| XD99DPSET | 92         |           | 3     |

## Appendix A. Abend codes

### 1102:

#### **Explanation**

Undefined feedback from VTAM®, or a serious error after a VTAM® request that makes continued processing impossible.

#### **Problem determination**

See message EQQV015E, which precedes this abend, for diagnostic information. Message EQQV015E is issued only if request parameter list (RPL) feedback is available.

#### **System programmer response**

If an undefined feedback code was returned by VTAM®, this is a VTAM® problem. Call your IBM® representative.

### 1103:

#### **Explanation**

VTAM® has detected an error while processing a request, or VTAM® has detected an error in an associated session, task, or address space.

#### **Problem determination**

None.

#### **System programmer response**

Call your IBM® representative.

### 1104:

#### **Explanation**

Serious error opening the network communication function (NCF) ACB. The VTAM® definition of the IBM Z Workload Scheduler NCF is probably in error.

#### **Problem determination**

See message EQQV027E, which precedes this abend, for diagnostic information.

#### **System programmer response**

If the diagnosis points to a user-definition error, correct the error and restart the subsystem. Otherwise, call your IBM® representative.

## 1110:

### **Explanation**

Unrecoverable error when scheduling a VTAM® macro.

### **Problem determination**

See message EQQV015E, which precedes this abend, for diagnostic information. Message EQQV015E is issued only if request parameter list (RPL) feedback is available.

### **System programmer response**

Call your IBM® representative.

## 1111:

### **Explanation**

Invalid SCB block or invalid pointer to it (internal error).

### **Problem determination**

None.

### **System programmer response**

Call your IBM® representative.

## 1112:

### **Explanation**

Invalid NAB block or invalid pointer to it (internal error).

### **Problem determination**

None.

### **System programmer response**

Call your IBM® representative.

## 1113:

### **Explanation**

Invalid BIB block or invalid pointer to it (internal error).

**Problem determination**

None.

**System programmer response**

Call your IBM® representative.

1121:

**Explanation**

All entries in the node table have been used (internal error).

**Problem determination**

None.

**System programmer response**

Call your IBM® representative.

1124:

**Explanation**

Invalid action code (internal error).

**Problem determination**

None.

**System programmer response**

Call your IBM® representative.

2001:

**Explanation**

Problem accessing the special resource data space during daily planning, and the VALEACTION keyword of BATCHOPT specifies ABEND.

**Problem determination**

None.

### **System programmer response**

Take a copy of the old current-plan file, the EQQCXDS file, and the EQQRDDS file, and call your IBM representative.

**3900:**

### **Explanation**

Not enough storage available to continue processing.

### **Problem determination**

None.

### **System programmer response**

Make sure that the region size specified for the system meets the IBM Z Workload Scheduler requirements. Region size requirements are documented in the *IBM Workload Scheduler: Planning and Installation* and *Program Directory*. If your region size is too small, enlarge it accordingly, and restart the system. Otherwise, call your IBM representative.

**3999:**

### **Explanation**

IBM Z Workload Scheduler internal validity checking has discovered an error condition (internal error). A message that contains the reason for the abend, as well as other debugging information, is written to the IBM Z Workload Scheduler diagnostic file, EQQDUMP.

### **Problem determination**

None.

### **System programmer response**

Call your IBM representative.



## Appendix B. Known problems

The following are known open problems.

The following limitations are outstanding:

- [Redundant message in TCP/IP server MLOG for error in MCP on page 781](#)
- [Redundant message in TCP/IP server MLOG for error in AD on page 781](#)
- [Job log not issued if DATASTORE is down on page 782](#)

### Redundant message in TCP/IP server MLOG for error in MCP

A message is erroneously displayed in the MLOG of the TCP/IP server when an error occurs while modifying the current plan.

If an error occurs while modifying the current plan and the following message is issued:

```
AWSUI4064E The following error occurred: EQQM943E USER FIELD NAME ddddd ALREADY  
PRESENT FOR APPLXECUTOR, 001
```

The message is also displayed in the message log of the server as follows:

```
EQQZ024I Error Diagnosis:
EQQZ024I      START ADDRESS: 0CC35FD4          TIME: 120316 153221
EQQZ024I      000000  C5D8D8D4 F9F4F340      *EQQM943
EQQZ024I Failing MCP request block, MT0:
EQQZ024I      START ADDRESS: 0CC35FC0          TIME: 120316 153221
EQQZ024I      000000  D4E3F040 F0F144F3 D700F1F2 F0F3F1F6 *MT0 01.3P.12
EQQZ024I      000010  F2F4F0F0 C5D8D8D4 F9F4F340 0000011B *2400EQQM943
EQQZ024I      000020  00000000 00000000 00C1D7D7 D3C5E7C5 *.....APP
EQQZ024I      000030  C3E4E3D6 D9404040 40F1F2F0 F3F1F6F1 *CUTOR 120
EQQZ024I      000040  F1F4F9F4 F0F0F3F1 F6F1F1F4 F9F4F0F0 *149400316114
EQQZ024I      000050  F3F1F6F2 F3F0F0F5 40404040 08404040 *31623005
EQQZ024I      000060  40404040 40404040 40404040 40404040 *
EQQZ024I      000070  40404040 40404040 40404040 40000000 *
EQQZ024I      000080  00000000 00000000 00000100 01C4C2D7 *.....
EQQZ024I      000090  D3E4C740 40E9C3C5 F1404040 40404040 *LUG ZCE1
EQQZ024I      0000A0  40404040 40404040 40404040 40404040 *
EQQZ024I      0000B0  40000000 01000000 00000000 00000000 * .....
EQQZ024I      0000C0  00000000 00000000 000000EA 60001E00 *.....
EQQZ024I      0000D0  01848484 84844040 40404040 40404040 *.dddd
EQQZ024I      0000E0  40404040 40404040 40404040 40404040 *
EQQZ024I      0000F0  40404040 40404040 40404040 40404040 *
EQQZ024I      000100  40404040 40404040 40404040 40404040 *
EQQZ024I      000110  40404040 40404000 000000      * ....
```

The message is erroneously displayed within the trace and should be ignored.

### Redundant message in TCP/IP server MLOG for error in AD

A message is unduly displayed in the MLOG of the TCP/IP server when an error occurs while modifying the Application Description database.

If an error occurs while modifying the Application Description database and the following message is issued:

The operation on object *object\_name* was not completed because the following error occurred: EQQA537E AUTOMATION INFO SELECTED FOR OP 1, WORKSTATION NOT FOR AUTOMATION

the message is also displayed in the message log of the server as follows:

```

EQQZ024I Error in block AD          at offset 0138 (msg EQQA537 )
EQQZ024I      START ADDRESS: 0CBDAFE0          TIME: 120327 132050630
EQQZ024I      000000 0000C1D7 D7D3E2C1 F3404040 40404040 *..APPLSA3      *
EQQZ024I      000010 4040C1F9 F9F1F2F3 F1C1C4D9 4001F4F0 * A991231ADR .40*
EQQZ024I      000020 F0F3F2F7 40404040 40404040 40404040 *0327      *
EQQZ024I      000030 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000040 40404040 D3C1D7D3 C1C3C140 40404040 * PALLACA      *
EQQZ024I      000050 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000060 40404040 40404040 40404040 00F4F0F0 * .400*
EQQZ024I      000070 F3F2F7F1 F3F2F0D9 C1C3C6C9 C4F240F5 *3271320RACFID2 5*
EQQZ024I      000080 40404040 40400001 00000000 00000000 * .....*
EQQZ024I      000090 000000D0 10C4C5C6 C1E4D3E3 40404040 *.....DEFAULT *
EQQZ024I      0000A0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0000B0 40404040 40000000 00000000 00000000 * .....*
EQQZ024I      0000C0 00000000 00000000 00000000 00000000 *.....*
EQQZ024I      0000D0 00000000 C3D7E4F1 00014040 40404040 *....CPU1.. *
EQQZ024I      0000E0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0000F0 40400000 00644040 40404040 E8D1D6C2 * .... YJOB*
EQQZ024I      000100 F1404040 40400000 40404040 40404040 *1 .. *
EQQZ024I      000110 40404040 40404040 40404040 40860000 * f..*
EQQZ024I      000120 00000000 00000001 00000000 00004040 *.....*
EQQZ024I      000130 D500D540 0000D5D5 01004040 40404040 *N.N ..NN.. *
EQQZ024I      000140 40400000 00000000 00000000 00000000 * .....*
EQQZ024I      000150 8489A297 97894040 40404040 40404040 *disppi *
EQQZ024I      000160 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000170 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000180 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000190 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0001A0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0001B0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0001C0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0001D0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0001E0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      0001F0 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000200 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000210 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000220 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000230 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000240 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000250 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000260 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000270 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000280 40404040 40404040 40404040 40404040 *      *
EQQZ024I      000290 40404040 40404040 40404040 40404040 *      *
.....

```

The message should not be displayed within the trace and should be ignored.

## Job log not issued if DATASTORE is down

No job logs are issued while the DATASTORE started task is down.

While the DATASTORE started task is down, no job logs are issued notwithstanding user requests. The following message is recorded in the MLOG of the controller:

```
EQQM938W  JOBLOG  ABEND      (JOB06207) NOT RETRIEVED. REASON: 0005
```

## Appendix C. Problem description sheet

### Example

Figure 10. Part 1 of 2

Customer number:

Date:

Problem number:

APAR number:

#### **Program specification - Program Number 5698-A17**

IBM Z Workload Scheduler release level:

PUT level:

#### **Problem Description:**

First indication of the problem:

What were you trying to do?

Has the function worked before?

#### **Type of failure**

Choose one of the following problem-type keywords:

\* ABEND code:

\*ABENDU:

ID or SEQ NO, if any:

Occurred in module:

Date of the module's compilation:

Offset into the module:

CSECT:

CSECT offset:

\* MSG. Message ID:

Does the message contain any return codes, reason codes, feedback codes, or error codes? If so, which codes?

\* LOOP. Occurred in module:

Date of the module's compilation:

Offset into the module:

CSECT:

CSECT offset:

\* WAIT. Occurred in module:

Date of the module's compilation:

Offset into the module:

CSECT:

CSECT offset:

**Continued on next page**

### Example

Figure 11. Part 2 of 2

|                     |          |              |  |
|---------------------|----------|--------------|--|
| * INCORROUT:        |          | * PERFM:     |  |
| * DOC order number: | Page(s): | Description: |  |

**Information about the failing function**

Choose one of the following areas that best fits the symptoms of your problem:

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| * Installing IBM Z Workload Scheduler | Did the failure occur during<br>SMP/E (1) receive, (2) apply, or (3) accept? |
| * Supplied JCL                        | Name of the failing job: %                                                   |
| * IBM Z Workload Scheduler command    | Command: %<br>(and command modifier, if any)                                 |

**Hardware used**

Is the problem specific to a type of hardware device?  
If so, supplement your keyword string with the device type: D/T %

**Software used**

Specify the software used at the time of the problem (version, release, modification level):

|           |             |
|-----------|-------------|
| * z/OS:   | * ACF/VTAM: |
| * JES2/3: | * DFP:      |
| * ISPF:   | * RACF:     |

**Exits used**

Are you running any exits with the product? If so, which ones?:

Can you remove or bypass an exit and re-create the problem?

Is any other user-written code executing (CLISTs, programs, panel changes) in the scheduler's environment?

Can this be bypassed and the function you were attempting then be successfully executed?

**Note:** You can use information marked with a percent sign (%) to supplement your keyword string.



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