CA IDMS™ Performance Monitor

Performance Monitor System Administration Guide

Release 18.5.00, 2nd Edition

This Documentation, which includes embedded help systems and electronically distributed materials, (hereinafter referred to as the "Documentation") is for your informational purposes only and is subject to change or withdrawal by CA at any time. This Documentation is proprietary information of CA and may not be copied, transferred, reproduced, disclosed, modified or duplicated, in whole or in part, without the prior written consent of CA.

If you are a licensed user of the software product(s) addressed in the Documentation, you may print or otherwise make available a reasonable number of copies of the Documentation for internal use by you and your employees in connection with that software, provided that all CA copyright notices and legends are affixed to each reproduced copy.

The right to print or otherwise make available copies of the Documentation is limited to the period during which the applicable license for such software remains in full force and effect. Should the license terminate for any reason, it is your responsibility to certify in writing to CA that all copies and partial copies of the Documentation have been returned to CA or destroyed.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, CA PROVIDES THIS DOCUMENTATION "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL CA BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY LOSS OR DAMAGE, DIRECT OR INDIRECT, FROM THE USE OF THIS DOCUMENTATION, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST INVESTMENT, BUSINESS INTERRUPTION, GOODWILL, OR LOST DATA, EVEN IF CA IS EXPRESSLY ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The use of any software product referenced in the Documentation is governed by the applicable license agreement and such license agreement is not modified in any way by the terms of this notice.

The manufacturer of this Documentation is CA.

Provided with "Restricted Rights." Use, duplication or disclosure by the United States Government is subject to the restrictions set forth in FAR Sections 12.212, 52.227-14, and 52.227-19(c)(1) - (2) and DFARS Section 252.227-7014(b)(3), as applicable, or their successors.

Copyright © 2014 CA. All rights reserved. All trademarks, trade names, service marks, and logos referenced herein belong to their respective companies.

CA Technologies Product References

This document references the following CA Technologies products:

- CA ADS™ for CA IDMS™
- CA Culprit™ for CA IDMS™
- DC/UCF

Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At http://ca.com/support, you can access the following resources:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

Providing Feedback About Product Documentation

If you have comments or questions about CA Technologies product documentation, you can send a message to techpubs@ca.com.

To provide feedback about CA Technologies product documentation, complete our short customer survey which is available on the CA Support website at http://ca.com/docs.

Documentation Changes

The following documentation updates have been made in the 18.5.00, 2nd Edition release of this documentation:

- Overview (see page 14)—Added information about external security product definitions which enable canceling a remote CA IDMS task.
- Parameters (see page 174)—Updated information about monitoring systems remotely; monitored CVs must be running non-swappable.
- DSECTs (see page 177)—Corrected content of #PMHDRDS and #PMS30DS.

The following documentation updates have been made in the 18.5.00 release of this documentation:

- Task Code Entry Options (see page 173)—The syntax of the SYStem parameter has changed.
- Overview (see page 14)—Added the information that IDMSINFO must be running to remotely monitor a CV.

Contents

Chapter 1: Introduction

This guide is intended to serve as a comprehensive reference for the following topics.

- Installing the CA IDMS Database Performance Monitor Option
- Running CA IDMS Performance Monitor reports
- Supervising CA IDMS Performance Monitor billing groups
- Tailoring CA IDMS Performance Monitor screen displays

This guide is intended for the following audiences:

- The person installing the CA IDMS Performance Monitor system
- The administrator responsible for setting up and running CA IDMS Performance Monitor reports
- The CA IDMS Performance Monitor administrator responsible for tailoring system screens

Syntax Diagram Conventions

The syntax diagrams presented in this guide use the following notation conventions:

`UPPERCASE OR SPECIAL CHARACTERS`

Represents a required keyword, partial keyword, character, or symbol that must be entered completely as shown.

`lowercase`

Represents an optional keyword or partial keyword that, if used, must be entered completely as shown.

`italicized lowercase`

Represents a value that you supply.

`lowercase bold`

Represents a portion of the syntax shown in greater detail at the end of the syntax or elsewhere in the document.

Points to the default in a list of choices.

Indicates the beginning of a complete piece of syntax.

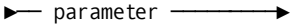
Indicates the end of a complete piece of syntax.

Indicates that the syntax continues on the next line.

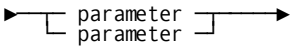
Indicates that the syntax continues on this line.

Indicates that the parameter continues on the next line.

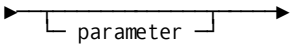
Indicates that a parameter continues on this line.



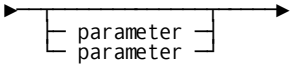
Indicates a required parameter.



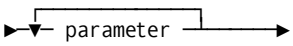
Indicates a choice of required parameters. You must select one.



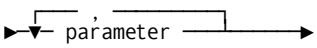
Indicates an optional parameter.



Indicates a choice of optional parameters. Select one or none.



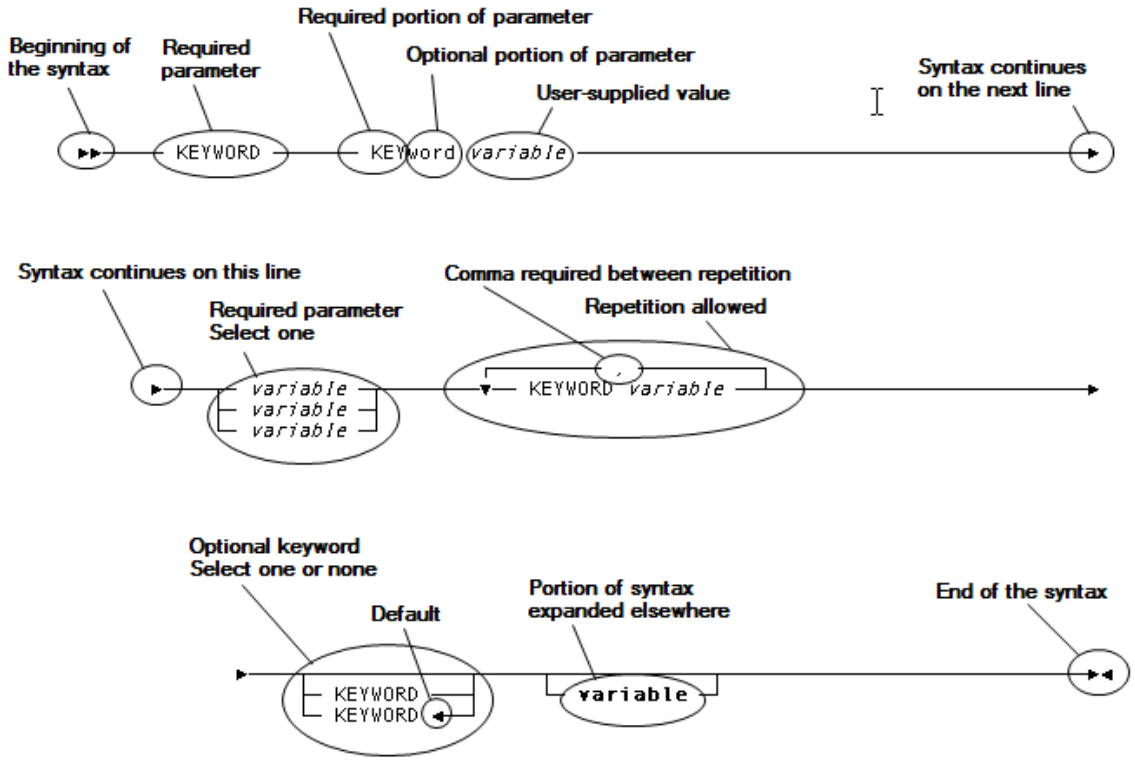
Indicates that you can repeat the parameter or specify more than one parameter.



Indicates that you must enter a comma between repetitions of the parameter.

Sample Syntax Diagram

The following sample explains how the notation conventions are used:



Chapter 2: Installation and Customization

This section contains the following topics:

Overview

To install the CA IDMS Performance Monitor by itself or together with other CA IDMS products, use the CA IDMS installation media.

Follow these steps::

1. Code any installation parameters specific to Performance Monitor.
2. Generate the installation job control.
3. (Optional) Modify the parameters of #PMOPT, the macro that specifies runtime options for Performance Monitor.
4. Execute the installation job stream.
5. (Optional) Modify the parameters of the #PMGEN macro embedded in the three Performance Monitor initialization modules.
6. Define report/billing groups for the Application Monitor.
7. (Optional, z/OS only) Start the IDMSINFO address space if you want to enable monitoring a remote CV.

   Note: For more information about starting the IDMSINFO address space, see the section *IDMSINFO Service Provider* in the *CA IDMS System Operations Guide*.
8. (Optional) Add external security product definitions to authorize canceling a remote CA IDMS task:
   - Create a resource class (CDT profile) of CA@IDMSI.
   - Follow the pattern "TASK.*targetCVname.taskcode*" for resource names. Control authority is required.

   Note: The preceding example applies to IBM RACF, but can be adapted to other security systems such as CA Top Secret or CA ACF2.
9. Restart the system to activate Performance Monitor.

This chapter provides information about #PMOPT and #PMGEN and describes how you can define report/billing groups.

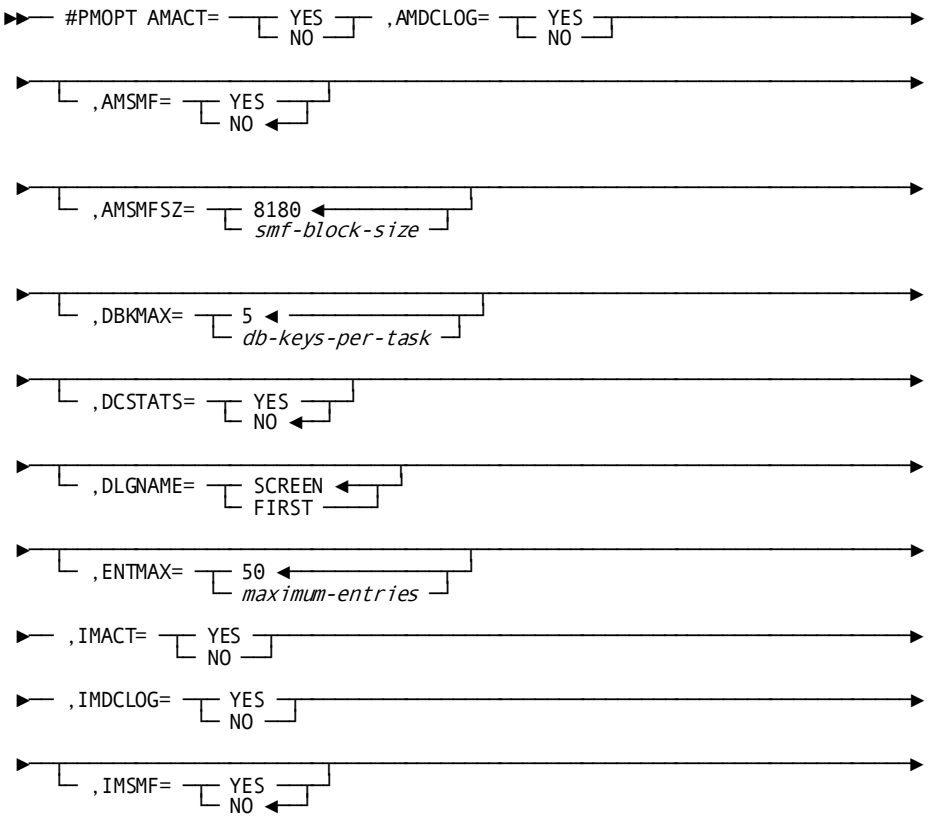
Note: For more information about installation, see the *CA IDMS Installation Guide* for your operating system.

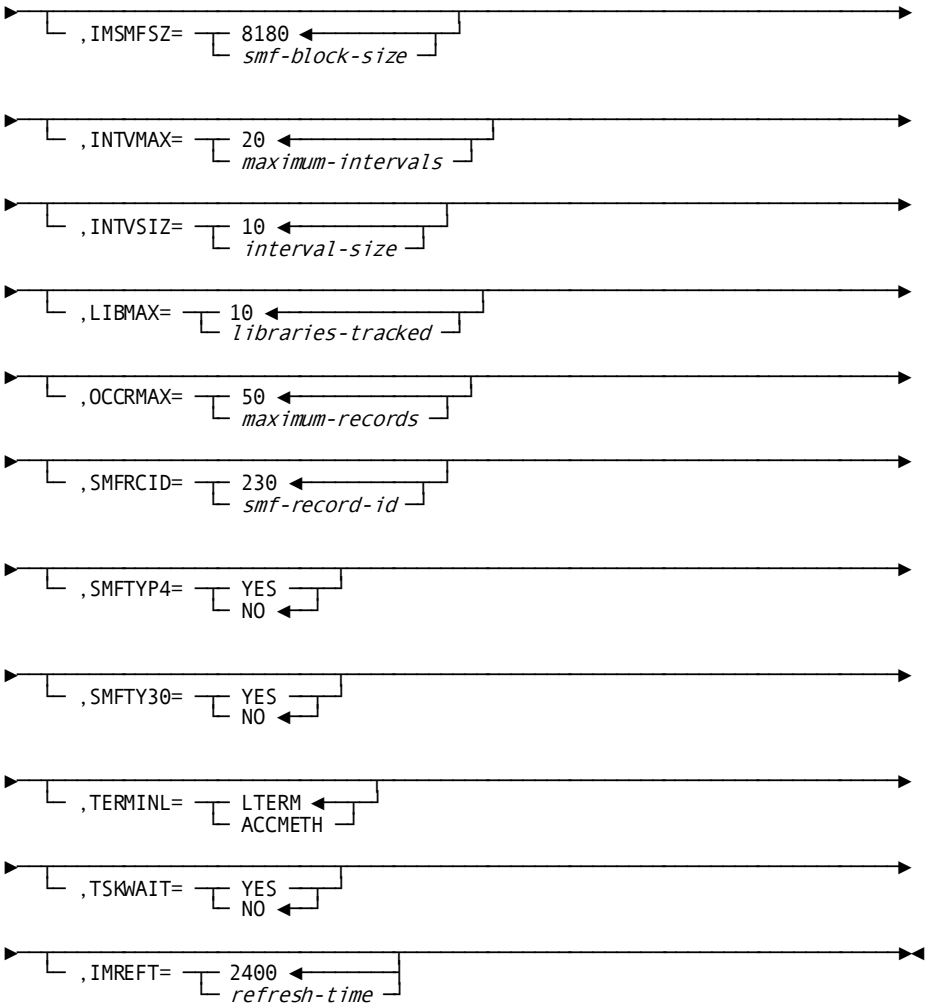
Modifying #PMOPT Parameters

The installation program generates #PMOPT, a macro that specifies runtime options for Performance Monitor. You can modify the #PMOPT parameters to suit your environment. Syntax and parameter descriptions for #PMOPT follow.

Note: You can modify the #PMOPT macro at any time, not just during the installation process.

Syntax





Parameters

AMACT=YES/NO

Specifies whether the Application Monitor is activated automatically when the DC/UCF system is started. This is a required parameter; there is no default. If you specify YES, Performance Monitor continuously captures task statistics regardless of the status of the Application Monitor's online component.

AMDCLOG=YES/NO

Specifies whether information collected by the Application Monitor should be written to the system log area. This is a required parameter; there is no default. If you specify NO, Application Monitor statistics can be viewed online only.

z/OS users: If you specify AMDCLOG=NO and you want the information to be available for batch reporting, you must specify AMSMF=YES.

AMSMF=YES/NO

(z/OS only) Specifies whether information collected by the Application Monitor should be written to the SMF job accounting file. The default is NO. If you specify YES, you must include the SMFRCID parameter. If you specify NO and want data available for batch reports, you must also specify AMDCLOG=YES.

AMSMFSZ=8180/*smf-block-size*

(z/OS only) Specifies the maximum number of bytes in Application Monitor SMF statistics blocks (1024-32764). The default is 8180. This parameter is applicable only if AMSMF=YES.

DBKMAX=5/*db-keys-per-task*

Specifies the number of db-keys the Interval Monitor should track (0-20). The default is 5. This parameter is applicable only if IMACT=YES.

DCSTATS=YES/NO

Specifies whether the standard DC task statistics block should be written to the DC/UCF system log area. The default is NO.

If you specify YES, the standard DC statistics block, as well as Performance Monitor statistics records, is written to the log at task termination.

DLGNAME=

Specifies which CA ADS dialog is recorded by the Application Monitor as the program name.

SCREEN

Specifies that the name of the dialog that issued the mapout request is to be used. SCREEN is the default.

FIRST

Specifies that the name of the first (high level) dialog is to be used.

ENTMAX=50/*maximum-entries*

Specifies the maximum number of entities that will be monitored online by the Application Monitor at any given time (0-1,000). The default is 50.

IMACT=YES/NO

Specifies whether the Interval Monitor is activated automatically when the DC/UCF system is started. This is a required parameter; there is no default.

IMDCLOG=YES/NO

Specifies whether information collected by the Interval Monitor is to be written to the DC/UCF system log area. This is a required parameter; there is no default. If you specify NO, Interval Monitor statistics can be viewed online only.

z/OS users: If you specify IMDCLOG=NO and you want the information to be available for batch reporting, you must specify IMSMF=YES.

IMSMF=YES/NO

(z/OS only) Specifies whether information collected by the Interval Monitor should be written to the SMF job accounting file. The default is NO. If you specify NO and want the information available for batch reporting, you must specify IMDCLOG=YES.

IMSMFSZ=8180/*smf-block-size*

(z/OS only) Specifies the number of bytes in Interval Monitor SMF statistics blocks (1,024-32,764). The default is 8,180. This parameter is applicable only if IMSMF=YES.

INTVMAX=20/*maximum-intervals*

Specifies the maximum number of intervals to be maintained by the online component of the Interval Monitor (0-1,000). The default is 20. Once the maximum number is reached during processing, the system wraps to begin overwriting with the earliest interval.

If you specify 0, the online component of the Interval Monitor is unavailable.

INTVSIZ=10/*interval-size*

Specifies the number of minutes in each interval maintained by the Interval Monitor (5-1,440). The default is 10.

LIBMAX=10/*libraries-tracked*

Specifies the number of libraries (CDMSLIB, CDMSL*nnn*, and so forth) the Interval Monitor should maintain (0-1,000). The default is 10.

z/VSE users: z/VSE sites should specify either 1 or 0. 0 indicates that no library statistics are to be maintained.

OCCRMAX=50/*maximum-records*

Specifies the default number of statistics records accumulated by the Application Monitor for each monitored entity (0-9999). The default is 50.

If you specify 0, the online component of the Application Monitor is unavailable.

SMFRCID=230/*smf-record-id*

(z/OS only) Specifies the SMF user record ID for Interval Monitor and Application Monitor statistics records written to the SMF file (128-255). The default is 230. This parameter is applicable only if IMSMF=YES or AMSMF=YES.

SMFTYP4=YES/NO

(z/OS only) Specifies whether Type 4 SMF records (step termination records) are created and written to the SMF file. The default is NO. This parameter is applicable only if AMACT=YES.

SMFTYP30=YES/NO

(z/OS only) Specifies whether Type 30 SMF records (step termination records) are created and written to the SMF file. The default is NO. This parameter is applicable only if AMACT=YES.

TERMINL=LTERM/ACCMETH

Specifies whether the Application Monitor tracks the logical terminal or the access method for use in LTERM ID fields. The default is LTERM.

TSKWAIT=YES/NO

Specifies whether task-wait statistics should be collected. The default is NO. The statistics are written to the log area if you specify AMDCLOG=YES.

z/OS users: Statistics are written to the SMF job accounting file if you specify AMSMF=YES.

IMREFT=*refresh-time*

Specifies the time in the format *hhmm* (24-hour clock) to initialize the Interval Monitor data collection buckets. Initialization is performed at the end of the interval in which the specified time falls.

Modifying #PMGEN Parameters

Each component of the Performance Monitor has its own initialization module, automatically generated when you run CAIIJMP.

Component	Initialization module
Realtime Monitor	PMRTINIT
Interval Monitor	PMIMINIT
Application Monitor	PMAMINIT

Steps for modifying #PMGEN

You can modify the initialization modules by modifying the parameters of the #PMGEN macro embedded in each module. Follow these steps:

1. Examine the default #PMGEN macro generated for each Performance Monitor module.
2. Modify the parameters of each #PMGEN macro as appropriate for your site. The source code is located in the source library (SRCLIB) created during installation.
3. Assemble the modified initialization module.
4. Link edit the modified initialization module.

z/OS and z/VSE users: For z/OS users, modifications can be made by reassembling and relinking #PMGEN. Any modifications to the CA IDMS load libraries should be applied by MSHP for z/VSE. For sample JCL for the #PMGEN macro, see the sample JCL library provided at installation. For more information about how to assemble and link edit a module using MSHP, see the *CA IDMS Installation for z/VSE.*

Default #PMGEN macros

The following are the #PMGEN defaults for each component of the Performance Monitor. Note that X represents the continuation character you must code in column 72. The continuation character can be any nonblank character.

#PMGEN defaults for the Realtime Monitor

```
#PMGEN  CASE=UPLOW,              X
        CONV=YES,                X
        DSTREAM=MODIFIED,        X
        EDIT=YES,                X
        PFKEYS=24,               X
        REFRESH=10,              X
        SITESAVE=YES,            X
        SNAP=YES,                X
        SORT=YES,                X
        STAE=NO,                 X
        USERSAV=YES
```

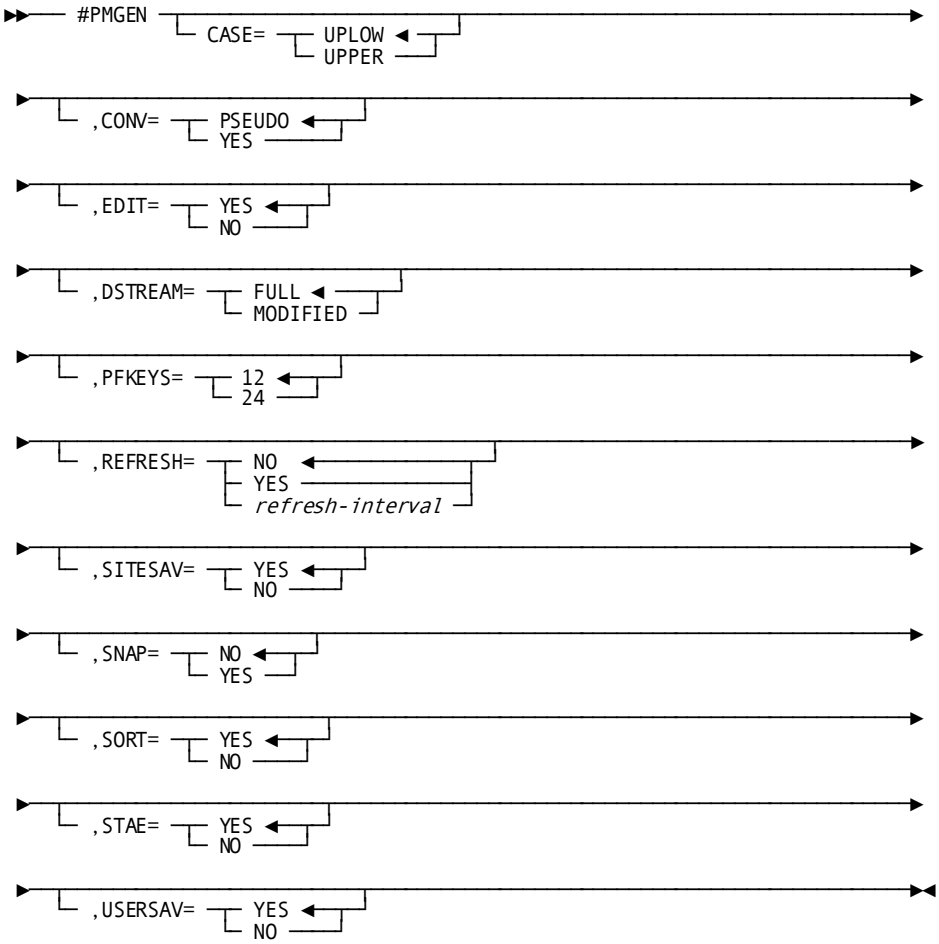
#PMGEN defaults for the Interval Monitor

```
#PMGEN  CASE=UPLOW,              X
        CONV=PSEUDO,             X
        DSTREAM=FULL,            X
        EDIT=YES,                X
        PFKEYS=24,               X
        REFRESH=NO,              X
        SITESAVE=YES,            X
        SNAP=YES,                X
        STAE=NO,                 X
        USERSAV=YES
```

#PMGEN defaults for the Application Monitor

```
#PMGEN  CASE=UPLOW,              X
        CONV=PSEUDO,             X
        DSTREAM=FULL,            X
        EDIT=YES,                X
        PFKEYS=24,               X
        REFRESH=NO,              X
        SITESAVE=YES,            X
        SNAP=YES,                X
        SORT=YES,                X
        STAE=NO,                 X
        USERSAV=YES
```

Syntax



Parameters

CASE=UPLOW/UPPER

Specifies if literals and help text is to appear in uppercase and lowercase (UPLOW) or uppercase only (UPPER). The default is UPLOW. Specify UPPER if the lowercase English alphabet causes problems with your site's terminals.

CONV=PSEUDO/YES

Indicates if the component is to run pseudo-conversationally. PSEUDO (default) indicates that it runs pseudo-conversationally. YES indicates that it runs conversationally. Generally, this parameter is PSEUDO for the Interval and Application Monitors; YES for the Realtime Monitor. NO is a synonym for PSEUDO.

EDIT=YES/NO

Specifies whether the person running the monitor can edit windows. The default is YES.

DSTREAM=FULL/MODIFIED

Specifies whether the data stream sent to the terminal is to be compressed. FULL (default) indicates that the data stream will not be compressed and will use relatively less CPU time but more transmission time. MODIFIED indicates that the data stream will be compressed and will use relatively more CPU time but less transmission time.

PFKEYS=12/24

Defines the number of PF keys in use. The default is 12. If you specify 24, any keys not explicitly used by the monitors are shadow keys (PF17 shadows PF5, PF18 shadows PF6, and so forth).

REFRESH=NO/YES/*refresh-interval*

Specifies whether Performance Monitor automatically refreshes monitor screens with current statistics. The default is NO. This parameter should be NO for the Interval and Application Monitors. Specify NO, YES, or *refresh-interval* for the Realtime Monitor:

- YES— the default refresh interval is 10 seconds
- *refresh-interval*— Performance Monitor automatically refreshes the screen at the interval specified; *Refresh-interval* must be in the range 1-99
- YES or *refresh-interval*— Performance Monitor refreshes the screen automatically regardless of the CONV=PSEUDO/YES specification

Note: By default, REFRESH=NO is forced for UCF terminals regardless of the setting in #PMGEN. The REFRESH value will be honored for the setting in #PMGEN. The REFRESH value will be honored for UCF terminals if optional bit 34 is set in RHDCOPTF. Limitations still exist, however, on the use of automatic refresh when using UCF terminals. These limitations arise because the REFRESH option is implemented by issuing a READ BUFFER instead of a READ MODIFIED command when it is checking for input before refreshing the screen.

The limitations are as follows:

- The z/VM front-end UCF module does not support screen refresh. Optional bit 34 should not be applied to a back-end that is to be accessed through UCFCMS.
- Screen refresh is not supported for any other environment where READ BUFFER is not supported. These include TCAM terminals and z/VM PASSTHRU. Do not set the optional bit in these environments.
- Under TSO, the front-end UCF module must be created with the parameter VTAM=YES on the #UCFTSO parameter. This is the recommended value for most sites. For more information, see the *Systems Operations Guide*.

- Under CICS, we recommend that a special version of the UCF front-end be created for use only with PERFMON. Create this version by assembling the #UCFCICS macro with the parameters RESETKB=ASIS and LASTOUT=TASKEND. This lets multiple WRITE datastreams be sent to the terminal between READ commands, but allows input from the terminal while the front-end UCF task is running. Without these options, terminal hangs or CICS task abends such as ATNI or ATCV can result. These parameters might not be desirable for UCFCICS applications other than PMRM. That is why we recommend a special UCFCICS module.

  Also ensure the CICS terminal control table entry has a TOTAL buffer size large enough to accommodate the realtime monitor READ BUFFER and datastream write commands. In addition, each #UCFUTD macro associated with the UCF front-end should specify BUFSIZ=8192.

  Note that the READ BUFFER command causes the front-end UCFCICS task, which is accessing PMRM, to run conversationally. This means that a CICS task will be running as long as PMRM is running. This task might use increasing amounts of CICS resources such as storage. This might necessitate terminating the PMRM task periodically to release resources.

- For all TP monitors, UCF lets the terminal operator modify the PMRM session only at the REFRESH interval. Attempts to update the screen prematurely can result in problems such as INPUT INHIBITED (X-F at the bottom of the terminal screen). To avoid these problems, the terminal operator should observe the following procedures before pressing a function key or the Enter key:

  - Move the cursor off the command line.
  - Wait for the <<SCREEN HELD>> message to appear on the screen.

    This indicates that PMRM has issued the READ BUFFER and recognized that operator input is pending.
  - Press the desired function key or Enter key.

  It may be helpful to reduce the default refresh interval of 10 seconds by reassembling the #PMGEN macro and relinking the PMRTINIT program. Alternatively, the REFRESH command can be issued from within PMRM.

  Note that optional bit 34 has no effect on non-UCF terminals.

SITESAV=YES/NO

Specifies whether a Performance Monitor user can save version 1 of the monitor screens. The default is YES. As system administrator, you can tailor the screens with YES at installation and then specify NO once Performance Monitor is in production.

Note: For more information about tailoring screen displays, see Tailoring Screens, Task Codes, and Entry Options (see page 169).

SNAP=NO/YES

Specifies whether Performance Monitor writes a snap dump to the log file whenever the STAE detects an abend within the Performance Monitor. The default is NO. If SNAP=YES, STAE must also be YES.

SORT=YES/NO

Specifies whether the Performance Monitor user can sort windows. The default is YES.

STAE=YES/NO

Specifies whether the Performance Monitor STAE receives control when an abend occurs within the Performance Monitor. The default is YES.

USERSAV=YES/NO

Specifies whether users can save a test version of the monitor screens (any version other than version 1). The default is YES.

Note: For more information about saving modified screen versions, see Tailoring Screens, Task Codes, and Entry Options (see page 169).

Defining Report/Billing Groups

Report/billing groups are used by the Application Monitor to categorize users for chargeback, accounting, and reporting purposes. Often, report/billing groups represent a division, department, development team, or application.

Associating users with a group

You associate a user with a group using the installation code in the system profile or user profile. System and user profiles are created using the CA IDMS Command Facility.

Note: For more information about profiles, see the *CA IDMS IDD DDDL Reference Guide* or the *CA IDMS Installation Guide.*

Chapter 3: Preparing to Run Reports

This section contains the following topics:

Overview

This chapter describes how to archive Performance Monitor statistics so they can be used as input for Performance Monitor batch reports. Sample JCL and commands for running these batch reports are also provided.

For more information:

Interval Monitor Batch Reports (see page 55)

Application Monitor Batch Reports (see page 111)

Creating statistics archives

Before generating the Performance Monitor batch reports, you must archive the collected statistics to tape. This tape serves as input to the reports. Any number of archive tapes can be input to a single run.

The procedure for archiving statistics varies, depending on where the statistics are written to:

- If statistics are written to the DDLDCLOG area of the dictionary, you archive using the ARCHIVE LOG utility statement (see Archiving Statistics From the DDLDCLOG Area (see page 26)).
- If statistics are written to the system management facility (SMF) job accounting file (z/OS systems only), then you archive using the PMSMFEX macro (see Using SMF to Archive Statistics (z/OS only) (see page 36)).

Note: For more information about SMF and archive file record layouts, see Performance Monitor Record Descriptions (see page 177).

Job-step restriction

You cannot request Interval Monitor and Application Monitor reports in the same CA Culprit job step. To get both sets of reports in one run, use two CA Culprit job steps. You can minimize tape handling by first using PMARPT90 and PMIRPT90 to produce machine-readable files of Performance Monitor statistics.

Archiving Statistics From the DDLDCLOG Area

If statistics are written to the DDLDCLOG area during online processing, they are maintained in the DDLDCLOG area of the dictionary. Statistics are written to the DDLDCLOG area as follows:

- Interval Monitor — Performance Monitor writes statistics to DDLDCLOG if the system administrator specifies IMDCLOG=YES in the #PMOPT macro.
- Application Monitor — Performance Monitor writes statistics to DDLDCLOG if the system administrator specifies AMDCLOG=YES in the #PMOPT macro.

To archive the statistics from the DDLDCLOG area, use the batch component of the command facility to enter the ARCHIVE LOG statement.

Note:

- For more information about ARCHIVE LOG, see the *CA IDMS Utilities Guide*.
- For more information about the command facility, see the *CA IDMS Common Facilities Guide*.

Sample JCL

You can use the sample JCL in the following sections to archive the statistics from the log area. Remember to supply the appropriate values for variables (shown in italics). Descriptions of variables are provided.

Archiving—z/OS

IDMSBCF (ARCHIVE LOG STATEMENT) (z/OS)

```
//*********************************************************************
//*                                                                   *
//*          ARCHIVE LOG STATEMENT ENTERED USING IDMSBCF              *
//*         (creates the input file for running reports)              *
//*                                                                   *
//*********************************************************************
//archlog  EXEC PGM=IDMSBCF,REGION=1024K
//STEPLIB  DD   DSN=idms.dba.loadlib,DISP=SHR
//         DD   DSN=idms.custom.loadlib,DISP=SHR
//         DD   DSN=idms.cagjload,DISP=SHR
//dclog    DD   DSN=idms.system.ddldclog,DISP=SHR
//dcmsg    DD   DSN=idms.sysmsg.ddldcmsg,DISP=SHR
//secdd    DD   DSN=idms.sysuser.ddlsec,DISP=SHR
//sysjrnl  DD   DUMMY
//SYS001   DD   DUMMY
//SYS002   DD   DSN=idms.archive,DISP=(NEW,CATLG),UNIT=tape,
//            DCB=(RECFM=VB,LRECL=280,BLKSIZE=23244)
//SYSLST   DD   SYSOUT=A
//SYSIDMS  DD   *
DMCL=dmcl-name
Other SYSIDMS parameters, as appropriate
/*
//SYSIPT   DD   *
ARCHIVE LOG;
/*
```

Note: For more information about IDMSBCF (the batch command facility), see the *CA IDMS Common Facilities Guide*.

archive	Name of job step for archiving
idms.dba.loadlib	Dataset name of the load library containing the DMCL and database name table load modules
idms.cagjload	Dataset name of the load library containing the CA IDMS executable modules that do not require customization
idms.custom.loadlib	Dataset name of the load library containing the customized CA IDMS executable modules
dclog	Ddname of the log area of the dictionary
idms.system.ddldclog	Dataset name of the log area of the dictionary
dcmsg	Ddname of the system message (DDLDCMSG) area
idms.sysmsg.ddldcmsg	Dataset name of the system message (DDLDCMSG) area

secdd	Ddname of the user catalog (required if security is turned on)
idms.sysuser.ddlsec	Dataset name of the user catalog; this dataset can be defined dynamically through the DMCL)
sysjrnl	Ddname of the journal file
idms.archive	Name of the archive file
tape	Symbolic device name of the archive dataset file
dmcl-name	Name of the DMCL load module to use in local mode **Note:** For more information about all SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.

Archiving—z/VSE

IDMSBCF (ARCHIVE LOG STATEMENT) (z/VSE)

```
*********************************************************************
*                                                                   *
*         ARCHIVE LOG STATEMENT ENTERED USING IDMSBCF                *
*         (creates the input file for running reports)               *
*********************************************************************
// EXEC PROC=IDMSLBLS
// TLBL    sysjrnl,'idms.tapejrnl',,nnnnnn,,f
// ASSGN   SYS008,TAPE,VOL=nnnnnn
// ASSGN   SYS012,IGN
// ASSGN   SYS009,IGN
// ASSGN   SYS001,IGN
// TLBL    V002,'idms.archive'
// ASSGN   SYS002,'ttt'
// EXEC    IDMSBCF,SIZE=1024K
ARCHIVE LOG;
/*
```

Note: For more information about IDMSBCF (the batch command facility), see the *CA IDMS Common Facilities Guide*.

IDMSLBLS	Name of the procedure (provided at installation) that contains the file definitions for CA IDMS dictionaries and databases **Note:** For a complete listing of IDMSLBLS, see "**IDMSLBLS procedure**" that follows.
sysjrnl	Name of the tape journal file

idms.tapejrnl	ID of the tape journal file
nnnnnn	Volume serial number
f	Number of the tape journal file
idms.archive	Name of archive tape
ttt	Physical device assignment

Runtime parameters

IDMSLBLS references the SYSIDMS file, a file in which you can specify parameters that describe physical requirements (such as DMCL or dictionary to access), runtime parameters, or operating system-specific file information. For this job stream, you should specify the DICTNAME parameter.

Note: For more information about all SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.

IDMSLBLS procedure

IDMSLBLS is a procedure that contains file definitions for the dictionaries, sample databases, disk journal files, and SYSIDMS file provided during installation.

You can tailor the following IDMSLBLS procedure (provided on the installation media) to reflect the filenames and definitions in use at your site. Reference IDMSLBLS as shown in the previous z/VSE JCL job stream.

```
* ———————— LIBDEFS ————————
// LIBDEF  *,SEARCH=idmslib.sublib
// LIBDEF  *,CATALOG=user.sublib
/*  ————————————————————————— LABELS —————————————————————————
// DLBL    idmslib,'idms.library',yyyy/ddd
// EXTENT  ,nnnnnn,,,ssss,1500
// DLBL    dccat,'idms.system.dccat',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,31
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dccatl,'idms.system.dccatlod',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dccatx,'idms.system.dccatx',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,11
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dcdml,'idms.system.ddldml',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,101
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dclod,'idms.system.ddldclod',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,21
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dclog,'idms.system.ddldclog',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,401
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dcrun,'idms.system.ddldcrun',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,68
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dcscr,'idms.system.ddldcscr',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,135
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dcmsg,'idms.sysmsg.ddldcmsg',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,201
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dclscr,'idms.sysloc.ddlocscr',yyyy/ddd,DA
```

```
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dirldb,'idms.sysdirl.ddldml',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,201
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dirllod,'idms.sysdirl.ddldclod',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,2
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    empdemo,'idms.empdemo1',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,11
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    insdemo,'idms.insdemo1',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    orgdemo,'idms.orgdemo1',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    empldem,'idms.sqldemo.empldemo',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,11
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    infodem,'idms.sqldemo.infodemo',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    projdem,'idms.projseg.projdemo',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR

// DLBL    indxdem,'idms.sqldemo.indxdemo',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,6
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    sysctl,'idms.sysctl',yyyy/ddd,SD
// EXTENT  SYSnnn,nnnnnn,,,ssss,2
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    secdd,'idms.sysuser.ddlsec',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,26
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dictdb,'idms.appldict.ddldml',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,51
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    dloddb,'idms.appldict.ddldclod',yyyy/ddd,DA
```

```
// EXTENT  SYSnnn,nnnnnn,,,ssss,51
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    sqldd,'idms.syssql.ddlcat',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,101
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    sqllod,'idms.syssql.ddlcatl',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,51
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    sqlxdd,'idms.syssql.ddlcatx',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,26
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    asfdml,'idms.asfdict.ddldml',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,201
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    asflod,'idms.asfdict.asflod',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,401
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    asfdata,'idms.asfdict.asfdata',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,201
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    ASFDEFN,'idms.asfdict.asfdefn',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,101
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    j1jrnl,'idms.j1jrnl',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,54
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    j2jrnl,'idms.j2jrnl',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,54
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    j3jrnl,'idms.j3jrnl',yyyy/ddd,DA
// EXTENT  SYSnnn,nnnnnn,,,ssss,54
// ASSGN   SYSnnn,DISK,VOL=nnnnnn,SHR
// DLBL    SYSIDMS,'#SYSIPT',0,SD
/+
/*
```

idmslib.sublib	Name of the sublibrary within the library containing CA IDMS modules
user.sublib	Name of the sublibrary within the library containing user modules
idmslib	Name of the file containing CA IDMS modules
idms.library	ID associated with the file containing CA IDMS modules
SYSnnn	Logical unit of the volume for which the extent is effective
nnnnnn	Volume serial identifier of appropriate disk volume

ssss	Starting track (CKD) or block (FBA) of disk extent
dccat	Filename of the system dictionary catalog (DDLCAT) area
idms.system.dccat	ID of the system dictionary catalog (DDLCAT) area
dccatl	Filename of the system dictionary catalog load (DDLCATLOD) area
idms.system.dccatlod	ID of the system dictionary catalog load (DDLCATLOD) area
dccatx	Name of the system dictionary catalog index (DDLCATX) area
idms.system.dccatx	ID of the system dictionary catalog index (DDLCATX) area
dcdml	Name of the system dictionary definition (DDLDML) area
idms.system.ddldml	ID of the system dictionary definition (DDLDML) area
dclod	Name of the system dictionary definition load (DDLDCLOD) area
idms.system.ddldclod	ID of the system dictionary definition load (DDLDCLOD) area
dclog	Name of the system log area (DDLDCLOG) area
idms.system.ddldclog	ID of the system log (DDLDCLOG) area
dcrun	Name of the system queue (DDLDCRUN) area
idms.system.ddldcrun	ID of the system queue (DDLDCRUN) area
dcscr	Name of the system scratch (DDLDCSCR) area
idms.system.ddldcscr	ID of the system scratch (DDLDCSCR) area
dcmsg	Name of the system message (DDLDCMSG) area
idms.sysmsg.ddldcmsg	ID of the system message (DDLDCMSG) area
dclscr	Name of the local mode system scratch (DDLOCSCR) area
idms.sysloc.ddlocscr	ID of the local mode system scratch (DDLOCSCR) area
dirldb	Name of the IDMSDIRL definition (DDLDML) area
idms.sysdirl.ddldml	ID of the IDMSDIRL definition (DDLDML) area
dirllod	Name of the IDMSDIRL definition load (DDLDCLOD) area
idms.sysdirl.dirllod	ID of the IDMSDIRL definition load (DDLDCLOD) area
empdemo	Name of the EMPDEMO area
idms.empdemo1	ID of the EMPDEMO area

insdemo	Name of the INSDEMO area
idms.insdemo1	ID of the INSDEMO area
orgdemo	Name of the ORGDEMO area
idms.orgdemo1	ID of the ORDDEMO area
empldem	Name of the EMPLDEMO area
idms.sqldemo.empldemo	ID of the EMPLDEMO area
infodem	Name of the INFODEMO area
idms.sqldemo.infodemo	ID of the INFODEMO area
projdem	Name of the PROJDEMO area
idms.projseg.projdemo	ID of the PROJDEMO area
indxdem	Name of the INDXDEMO area
idms.sqldemo.indxdemo	ID of the INDXDEMO area
sysctl	Name of the SYSCTL file
idms.sysctl	ID of the SYSCTL file
secdd	Name of the system user catalog (DDLSEC) area
idms.sysuser.ddlsec	ID of the system user catalog (DDLSEC) area
dictdb	Name of the application dictionary definition area
idms.appldict.ddldml	ID of the application dictionary definition (DDLDML) area
dloddb	Name of the applicSYSIDMS Name of the SYSIDMS parameter file ation dictionary definition load area
idms.appldict.ddldclod	ID of the application dictionary definition load (DDLDCLOD) area
sqldd	Name of the SQL catalog (DDLCAT) area
idms.syssql.ddlcat	ID of the SQL catalog (DDLCAT) area
sqllod	Name of the SQL catalog load (DDLCATL) area
idms.syssql.ddlcatl	ID of SQL catalog load (DDLCATL) area
sqlxdd	Name of the SQL catalog index (DDLCATX) area
idms.syssql.ddlcatx	ID of the SQL catalog index (DDLCATX) area
asfdml	Name of the asf dictionary definition (DDLDML) area
idms.asfdict.ddldml	ID of the asf dictionary definition (DDLDML) area
asflod	Name of the asf dictionary definition load (ASFLOD) area

idms.asfdict.asflod	ID of the asf dictionary definition load (ASFLOD) area
asfdata	Name of the asf data (ASFDATA) area
idms.asfdict.asfdata	ID of the asf data area (ASFDATA) area
ASFDEFN	Name of the asf data definition (ASFDEFN) area
idms.asfdict.asfdefn	ID of the asf data definition area (ASFDEFN) area
j1jrnl	Name of the first disk journal file
idms.j1jrnl	ID of the first disk journal file
j2jrnl	Name of the second disk journal file
idms.j2jrnl	ID of the second disk journal file
j3jrnl	Name of the third disk journal file
idms.j3jrnl	ID of the third disk journal file
SYSIDMS	Name of the SYSIDMS parameter file

Archiving—z/VM

IDMSBCF (ARCHIVE LOG STATEMENT) (z/VM)

```
*********************************************************************
*                                                                   *
*         ARCHIVE LOG STATEMENT ENTERED USING IDMSBCF                *
*         (creates the input file for running reports)               *
*********************************************************************
EXEC IDMSFD
OSRUN IDMSBCF
```

Note: For more information about IDMSBCF (the batch command facility), see the *CA IDMS Common Facilities Guide*.

IDMSFD	Exec which defines all FILEDEFs, TXTLIBs, and LOADLIBs required by the system

Runtime parameters

IDMSFD references the SYSIDMS file, a file in which you can specify parameters that describe physical requirements (such as DMCL or dictionary to access), runtime parameters, or operating system-specific file information. For this job stream, you should specify the DICTNAME parameter.

Note: For more information about all SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.

Executing in local mode

For the ARCHIVE LOG statement, you must specify that IDMSBCF is executing in local mode. To specify this, do one of the following:

- Link IDMSBCF with an IDMSOPTI program that specifies local execution mode
- Modify the OSRUN statement, as follows:

  ```
  OSRUN IDMSBCF PARM='*LOCAL*'
  ```

  Note: This option is valid only if you issue the OSRUN command from a System Product interpreter or an EXEC2 file.

Creating the SYSIPT file

To create the SYSIPT file, enter these z/VM commands:

```
XEDIT sysipt data a (NOPROF
INPUT
 .
 .
 .
Source statements
 .
 .
 .
FILE
```

Using SMF to Archive Statistics (z/OS only)

Under z/OS, statistics are written to the z/OS SMF job accounting file as follows:

- Application Monitor—If AMSMF=YES is specified in the #PMOPT macro
- Application Monitor SMF record type 30—If SMFTY30=YES is specified in the #PMOPT macro
- Application Monitor SMF record type 4—If SMFTYP4=YES is specified in the #PMOPT macro
- Interval Monitor—If IMSMF=YES is specified in the #PMOPT macro

Using PMSMFEX to archive

To archive the statistics from the z/OS SMF file, use the PMSMFEX module which is supplied with Performance Monitor and stored in the dictionary. Sample central version and local mode JCL follow.

SMF archive using PMSMFEX macro ('Central version')

```
//*********************************************************
//*                                                       *
//*                SMF ARCHIVE                            *
//*                                                       *
//*       READS THE SMF FILE AND CREATES THE              *
//*       INPUT FILE FOR RUNNING REPORTS                  *
//*                                                       *
//*********************************************************
//CULPRIT  EXEC PGM=CULPRIT,REGION=1024K
//STEPLIB  DD   DSN=idms.dba.loadlib,DISP=SHR
//         DD   DSN=idms.custom.loadlib,DISP=SHR
//         DD   DSN=idms.cagjload,DISP=SHR
//SORTLIB  DD   DSN=sys1.sortlib,DISP=SHR
//SYSOUT   DD   SYSOUT=A
//SYSPRINT DD   SYSOUT=A
//SORTPRNT DD   SYSOUT=A
//SORTMSG  DD   SYSOUT=A
//SYS004   DD   SYSOUT=A,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=133)
//SYS005   DD   DSN=&.&UPRMWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=FB,LRECL=320,BLKSIZE=1600)
//SYS006   DD   DSN=&.&UEXTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=2044,BLKSIZE=4628)
//SYS007   DD   DSN=&.&SRTPWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(TRK,(1,1)),
//              DCB=(RECFM=F,LRECL=80,BLKSIZE=80)
//SYS008   DD   DSN=&.&NSRTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=512,BLKSIZE=4628)
```

```
//SORTWK01 DD   DSN=&.&WRKAWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK02 DD   DSN=&.&WRKBWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK03 DD   DSN=&.&WRKCWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK04 DD   DSN=&.&WRKDWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//CULSRT1I DD   DSN=yourHLQ.CAGJSRC(SORT1),DISP=SHR
//SYSIN4   DD   DUMMY,DCB=BLKSIZE=80
//VSAMCTRL DD   DUMMY
//CULLIB   DD   DSN=yourHLQ.CAGJSRC,DISP=SHR
//sysctl   DD   DSN=idms.sysctl,DISP=SHR
//dcmsg    DD   DSN=idms.sysmsg.ddldcmsg,DISP=SHR
//SYS010   DD   DSN=user.smf.file,DISP=SHR
//SYS011   DD   DUMMY
//SYS020   DD   DSN=user.pmsmfex.outfile,DISP=(NEW,CATLG,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=280,BLKSIZE=23244)
//SYS030   DD   DSN=user.pmsmfex.outsmf30,DISP=(NEW,CATLG,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=698,BLKSIZE=23038)
//SYS040   DD   DSN=user.pmsmfex.outsmf4,DISP=(NEW,CATLG,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=259,BLKSIZE=23055)
//SYSIDMS  DD   *
//SYSIDMS  DD   *
DMCL=dmcl-name
Other SYSIDMS parameters, as appropriate
/*
//SYSIN    DD   *
 DATABASE DICTNAME=sysdirl
=MACRO 'PMSMFEX' (nnn)
=MEND
/*
//*
```

idms.dba.loadlib	Name of the load library containing the DMCL and the database name table load modules
idms.cagjload	Name of the load library containing the CA IDMS executable modules that do not require customization
idms.custom.loadlib	Name of the load library containing customized CA IDMS executable modules
yourHLQ.CAGJSRC	CA IDMS source library
sysctl	Ddname of the SYSCTL file

idms.sysctl	Dataset name of the SYSCTL file
dcmsg	Ddname of the dictionary message area
idms.sysmsg.ddldcmsg	Dataset name of the dictionary message area (DDLDCMSG)
sys1.sortlib	System sort library
disk	Symbolic device name of the file
user.smf.file	z/OS SMF job accounting file
user.pmsmfex.outfile	Name of the file created by the extract
user.pmsmfex.outsmf30	Name of the file created by the extract – SMF records type 30
user.pmsmfex.outsmf4	Name of the file created by the extract – SMF records type 4
dmcl-name	Name of the DMCL to access at runtime **Note:** For more information about other SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.
dictionary-name	Name of the dictionary to access (probably SYSDIRL)
nnn	SMF user record type coded on the #PMOPT macro SMFRCID parameter; the default is 230

Note: If the input SMF file to the SMF extract was created as a variable blocked spanned (VBS) file (RECFM=VBS), you must include the parameter DCB=BFTEK=A in the SYS010 DD statement for the *user.smf.file* dataset. Alternatively, add BFTEK=A to existing data control block (DCB) parameters.

If the CA Culprit dictionary security option is turned on in the dictionary that contains the SMF extract report source, a PROFILE statement naming an authorized user and password is required.

SMF archive using PMSMFEX macro ('Local mode')

```
//CULPRIT  EXEC PGM=CULPRIT,REGION=1024K
//STEPLIB  DD   DSN=idms.dba.loadlib,DISP=SHR
//         DD   DSN=idms.custom.loadlib,DISP=SHR
//         DD   DSN=idms.cagjload,DISP=SHR
//SORTLIB  DD   DSN=sys1.sortlib,DISP=SHR
//SYSOUT   DD   SYSOUT=A
//SYSPRINT DD   SYSOUT=A
//SORTPRNT DD   SYSOUT=A
//SORTMSG  DD   SYSOUT=A
//SYS004   DD   SYSOUT=A,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=133)
//SYS005   DD   DSN=&.&UPRMWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=FB,LRECL=320,BLKSIZE=1600)
//SYS006   DD   DSN=&.&UEXTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=2044,BLKSIZE=4628)
//SYS007   DD   DSN=&.&SRTPWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(TRK,(1,1)),
//              DCB=(RECFM=F,LRECL=80,BLKSIZE=80)
//SYS008   DD   DSN=&.&NSRTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=512,BLKSIZE=4628)
```

```
//SORTWK01 DD   DSN=&.&WRKAWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK02 DD   DSN=&.&WRKBWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK03 DD   DSN=&.&WRKCWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK04 DD   DSN=&.&WRKDWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//CULSRT1I DD   DSN=yourHLQ.CAGJSRC(SORT1),DISP=SHR
//SYSIN4   DD   DUMMY,DCB=BLKSIZE=80
//VSAMCTRL DD   DUMMY
//CULLIB   DD   DSN=yourHLQ.CAGJSRC,DISP=SHR
//dirldb   DD   DSN=idms.sysdirl.ddldml,DISP=SHR
//dcmsg    DD   DSN=idms.sysmsg.ddldcmsg,DISP=SHR
//sysjrnl  DD   DUMMY
//SYS010   DD   DSN=user.smf.file,DISP=SHR
//SYS011   DD   DUMMY
//SYS020   DD   DSN=user.pmsmfex.outfile,DISP=(NEW,CATLG,DELETE)
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=280,BLKSIZE=23244)
//SYS030   DD   DSN=user.pmsmfex.outsmf30,DISP=(NEW,CATLG,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=698,BLKSIZE=23038)
//SYS040   DD   DSN=user.pmsmfex.outsmf4,DISP=(NEW,CATLG,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=259,BLKSIZE=23055)

//SYSIDMS  DD   *
DMCL=dmcl-name
Other SYSIDMS parameters, as appropriate
/*
//SYSIN    DD   *
 DATABASE DICTNAME=sysdirl
=MACRO 'PMSMFEX' (nnn)
=MEND
/*
//*
```

For descriptions of variables, see the preceding JCL for executing under the central version.

Using PMSMFEX to extract data for a specific CV or system

To use PMSMFEX to extract data for a specific central version or DC system, you must modify the source statements for the PMSMFEX module stored in the dictionary.

- Extracting Interval Monitor data—To extract data for the Interval monitor by central version number or DC system number, change the source statements for PMSMFEX as follows:

```
00$ INTERVAL MONITOR RECORD SELECTION
00$ UNCOMMENT AND CHANGE FOLLOWING CARDS TO SELECT BY SYSTEM
00$ VERSION. SPECIFY THE SYSTEM NUMBER(S) DESIRED IN HEX.
00$ EX:   007135  IF SMFHDCV# EQ X'0010' 150
00$       007139  DROP                       $ DON'T WANT THIS ONE
00$   WILL SELECT ONLY RECORDS FOR DC SYSTEM VERSION # 16
00$
00$135  IF SMFHDCV# EQ X'NNNN' 150           $ WANT THIS
00$136  IF SMFHDCV# EQ X'NNNN' 150           $ WANT THIS
00$137  IF SMFHDCV# EQ X'NNNN' 150           $ WANT THIS
00$138  IF SMFHDCV# EQ X'NNNN' 150           $ WANT THIS
00$139  DROP                                 $ NOT THIS
00$-------------------------
00$ UNCOMMENT AND CHANGE FOLLOWING CARDS TO SELECT BY CV
00$ VERSION. SPECIFY THE CV NUMBER(S) DESIRED IN HEX.
00$ EX:   007135  IF SMFHCV# EQ X'10' 150
00$       007139  DROP                       $ DON'T WANT THIS ONE
00$   WILL SELECT ONLY RECORDS FOR DC VERSION # 16
00$
00$135  IF SMFHCV# EQ X'NN'    150           $ WANT THIS
00$136  IF SMFHCV# EQ X'NN'    150           $ WANT THIS
00$137  IF SMFHCV# EQ X'NN'    150           $ WANT THIS
00$138  IF SMFHCV# EQ X'NN'    150           $ WANT THIS
00$139  DROP                                 $ NOT THIS
```

- Extracting Application Monitor data —To extract data for the Application monitor by central version number or DC system version number, change the source statements for PMSMFEX as follows:

```
00$ APPLICATION MONITOR RECORD SELECTION
00$ UNCOMMENT AND CHANGE FOLLOWING CARDS TO SELECT BY SYSTEM
00$ VERSION. SPECIFY THE SYSTEM NUMBER(S) DESIRED IN HEX.
00$ EX:   007235  IF SMFHDCV# EQ X'0010' 240
00$       007239  DROP                      $ DON'T WANT THIS ONE
00$   WILL SELECT ONLY RECORDS FOR DC SYSTEM VERSION # 16
00$
00$235  IF SMFHDCV# EQ X'NNNN' 240          $ WANT THIS
00$236  IF SMFHDCV# EQ X'NNNN' 240          $ WANT THIS
00$237  IF SMFHDCV# EQ X'NNNN' 240          $ WANT THIS
00$238  IF SMFHDCV# EQ X'NNNN' 240          $ WANT THIS
00$239  DROP                               $ NOT THIS
00$-------------------------
00$ UNCOMMENT AND CHANGE FOLLOWING CARDS TO SELECT BY CV
00$ VERSION. SPECIFY THE CV NUMBER(S) DESIRED IN HEX.
00$ EX:   007235  IF SMFHCV# EQ X'10' 240
00$       007239  DROP                      $ DON'T WANT THIS ONE
00$   WILL SELECT ONLY RECORDS FOR DC VERSION # 16
00$
00$235  IF SMFHCV# EQ X'NN'   240           $ WANT THIS
00$236  IF SMFHCV# EQ X'NN'   240           $ WANT THIS
00$237  IF SMFHCV# EQ X'NN'   240           $ WANT THIS
00$238  IF SMFHCV# EQ X'NN'   240           $ WANT THIS
00$239  DROP                               $ NOT THIS
```

Sample Job Streams For Running Reports

This section provides sample job streams for running reports under:

- z/OS
- z/VSE
- z/VM

Running reports—z/OS

CULPRIT for running Performance Monitor reports (z/OS)

```
//*************************************************************
//*                                                           *
//*              Performance Monitor REPORTS                  *
//*                                                           *
//*  THE JOB EXECUTES THE CULPRIT REPORTS USING THE ARCHIVE *
//*  FILES AS INPUT AND PRODUCES THE REPORTS AND/OR A         *
//*  MACHINE-READABLE FILE AS OUTPUT.  THE USER HAS THE       *
//*  RESPONSIBILITY OF DEFINING THE FOLLOWING OPTIONS:        *
//*                                                           *
//*  1.  REPORTS SELECTION - //SYSIN  DD *                    *
//*      EACH REPORT REQUESTED IS SPECIFIED BY AN             *
//*      = COPY PARAMETER INSERTED IMMEDIATELY                *
//*      AFTER THE SYSIN DD * STATEMENT:                      *
//*           APPLICATION MONITOR .. PMARPTnn                 *
//*           INTERVAL MONITOR ..... PMIRPTnn                 *
//*                                                           *
//*  2.  SELECTION CRITERIA -  //SYS010 DD                    *
//*      SELECTION CRITERIA ARE SPECIFIED BY THE SELECTION    *
//*      CRITERIA PARAMETER CARDS INSERTED IMMEDIATELY        *
//*      AFTER THE SYS010 DD * STATEMENT.  TO SPECIFY NO      *
//*      SELECTION CRITERIA, INCLUDE THE FOLLOWING:           *
//*            //SYS010  DD  DUMMY                          *
//*                                                           *
//*  3.  ARCHIVE INPUT SET DEFINITION - //SYS011 DD DSN=      *
//*      DEFINE THE ARCHIVE FILES BY CODING THE FOLLOWING:    *
//*         //SYS011 DD  DSN=idms.archive,DISP=OLD           *
//*         //       DD  DSN=idms.archiven,DISP=OLD          *
//*         //           UNIT=AFF=SYS011                     *
//*                                                           *
//*  4.  MACHINE-READABLE OUTPUT SET (PMARPT90)               *
//*        DEFINITION -   //SYS020  DD DSN=                   *
//*      TO PRODUCE MACHINE-READABLE OUTPUT, THE OUTPUT       *
//*      FILE MUST BE DEFINED AS FOLLOWS:                     *
//*            //SYS020 DD DSN=rpt90.output.dataset          *
//*                                                           *
//*************************************************************
```

```
//CULPRIT  EXEC PGM=CULPRIT,REGION=1024K
//STEPLIB  DD   DSN=idms.dba.loadlib,DISP=SHR
//         DD   DSN=idms.custom.loadlib,DISP=SHR
//         DD   DSN=idms.cagjload,DISP=SHR
//SORTLIB  DD   DSN=sys1.sortlib,DISP=SHR
//SYSOUT   DD   SYSOUT=A
//SYSPRINT DD   SYSOUT=A
//SORTPRNT DD   SYSOUT=A
//SORTMSG  DD   SYSOUT=A
//SYS004   DD   SYSOUT=A,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=133)
//SYS005   DD   DSN=&.&UPRMWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=FB,LRECL=320,BLKSIZE=1600)
//SYS006   DD   DSN=&.&UEXTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=2044,BLKSIZE=4628)
//SYS007   DD   DSN=&.&SRTPWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(TRK,(1,1)),
//              DCB=(RECFM=F,LRECL=80,BLKSIZE=80)
//SYS008   DD   DSN=&.&NSRTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=512,BLKSIZE=4628)
//SORTWK01 DD   DSN=&.&WRKAWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK02 DD   DSN=&.&WRKBWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK03 DD   DSN=&.&WRKCWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK04 DD   DSN=&.&WRKDWORK.,
//              UNIT=disk,SPACE=(CYL,(5,2))
//CULSRT1I DD   DSN=yourHLQ.CAGJSRC(SORT1),DISP=SHR
```

```
//SYSIN4   DD   DUMMY,DCB=BLKSIZE=80
//VSAMCTRL DD   DUMMY
//CULLIB   DD   DSN=yourHLQ.CAGJSRC,DISP=SHR
//sysctl   DD   DSN=idms.sysctl,DISP=SHR
//dcmsg    DD   DSN=idms.sysmsg.ddldcmsg,DISP=SHR
//SYS010   DD   *
REPORT FROM 09:00 ON 5/15/10
/*
//SYS011   DD   DSN=idms.archive,DISP=OLD,UNIT=tape
//*SYS020   DD   DSN=rpt90.output.dataset,DISP=(NEW,CATLG,DELETE),
//*             UNIT=disk,SPACE=(CYL,(1,1)),
//*             DCB=(RECFM=VB,LRECL=280,BLKSIZE=23244)
//SYS020   DD   DUMMY
//SYSIDMS  DD   *
DMCL=dmcl-name
Other SYSIDMS parameters, as appropriate
/*
//SYSIN    DD   *
 DATABASE DICTNAME=sysdirl
 PARAM=NOLIST
=COPY 'PMIRPT00'
=COPY 'PMNAME'
=COPY 'PMIRPT01'
.
.
.
=COPY 'PMIRPT99'
/*
//*
```

idms.dba.loadlib	Name of the load library containing the DMCL and database name table load modules
idms.custom.loadlib	Name of the load library containing customized CA IDMS executable modules
idms.cagjload	Name of the load library containing CA IDMS executable modules that do not require customization
yourHLQ.CAGJSRC	CA IDMS source library
sysctl	The ddname of the SYSCTL file
idms.sysctl	Dataset name of the SYSCTL file
dcmsg	Ddname of the dictionary message area (DDLDCMSG)
idms.sysmsg.ddldcmsg	Filename of the dictionary message area (DDLDCMSG)
sys1.sortlib	System sort library

idms.archive *idms.archiven*	Names of archive logs (n is *nth* log)
rpt90.output.dataset	Machine-readable output
dmcl-name	Name of the DMCL **Note:** For more information about other SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.
dictionary-name	Dictionary name (probably SYSDIRL)

z/OS blocksize considerations

The input JCL for the statistics input file (SYS011) must specify a DCB=BLKSIZE=*nnnnn* parameter. *Nnnnn* must be at least 280 bytes larger than the actual block size of the file. If the DCB specified is not large enough, CA Culprit may receive an OC4 abend.

For example, if the input file has a blocksize of 11476, an appropriate SYS011 DD statement is:

```
//SYS011    DD   DSN=PM.STATS,DISP=OLD,DCB=BLKSIZE=12000
```

Executing in local mode

CULPRIT for running Performance Monitor reports (z/OS)

```
//CULPRIT  EXEC PGM=CULPRIT,REGION=1024K
//STEPLIB  DD   DSN=idms.dba.loadlib,DISP=SHR
//         DD   DSN=idms.custom.loadlib,DISP=SHR
//         DD   DSN=idms.cagjload,DISP=SHR
//SORTLIB  DD   DSN=sys1.sortlib,DISP=SHR
//SYSOUT   DD   SYSOUT=A
//SYSPRINT DD   SYSOUT=A
//SORTPRNT DD   SYSOUT=A
//SORTMSG  DD   SYSOUT=A
//SYS004   DD   SYSOUT=A,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=133)
//SYS005   DD   DSN=&.&UPRMWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=FB,LRECL=320,BLKSIZE=1600)
//SYS006   DD   DSN=&.&UEXTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=2044,BLKSIZE=4628)
//SYS007   DD   DSN=&.&SRTPWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(TRK,(1,1)),
//              DCB=(RECFM=F,LRECL=80,BLKSIZE=80)
//SYS008   DD   DSN=&.&NSRTWORK.,DISP=(NEW,DELETE),
//              UNIT=disk,SPACE=(CYL,(5,2)),
//              DCB=(RECFM=VB,LRECL=512,BLKSIZE=4628)
```

```
//SORTWK01 DD   DSN=&.&WRKAWORK.,
//             UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK02 DD   DSN=&.&WRKBWORK.,
//             UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK03 DD   DSN=&.&WRKCWORK.,
//             UNIT=disk,SPACE=(CYL,(5,2))
//SORTWK04 DD   DSN=&.&WRKDWORK.,
//             UNIT=disk,SPACE=(CYL,(5,2))
//CULSRT1I DD   DSN=yourHLQ.CAGJSRC(SORT1),DISP=SHR
//SYSIN4   DD   DUMMY,DCB=BLKSIZE=80
//VSAMCTRL DD   DUMMY
//CULLIB   DD   DSN=yourHLQ.CAGJSRC,DISP=SHR
//dirldb   DD   DSN=idms.sysdirl.ddldml,DISP=SHR
//dcmsg    DD   DSN=idms.sysmsg.ddldcmsg,DISP=SHR
//sysjrnl  DD   DUMMY
//SYS010   DD   *
REPORT FROM 09:00 ON 5/15/10
/*
//SYS011   DD   DSN=idms.archive1,DISP=OLD,UNIT=tape
//*SYS020   DD   DSN=rpt90.output.dataset,DISP=(NEW,CATLG,DELETE),
//*             UNIT=disk,SPACE=(CYL,(1,1)),
//*             DCB=(RECFM=VB,LRECL=280,BLKSIZE=23244)
//SYS020   DD   DUMMY
//SYSIDMS  DD   *
DMCL=dmcl-name
Other SYSIDMS parameters, as appropriate
/*
//SYSIN    DD   *
 DATABASE DICTNAME=sysdirl
 PARAM=NOLIST
=COPY 'PMIRPT00'
=COPY 'PMNAME'
=COPY 'PMIRPT01'
 .
 .
 .
=COPY 'PMIRPT99'
/*
//*
```

Note: For more information about the descriptions of variables, see the preceding JCL for running under the central version.

Running reports—z/VSE

CULPRIT for running Performance Monitor reports (z/VSE)

```
************************************************************************
*                                                                      *
*                  Performance Monitor REPORTS                         *
*                                                                      *
*         THIS JOB READS THE FILE CREATED IN THE PREVIOUS              *
*         STEP AND PRODUCES THE CULPRIT REPORTS.                       *
*                                                                      *
************************************************************************
// EXEC    PROC=IDMSLBLS
// DLBL    SORTWK1,'SORTWK1',0,SD
// EXTENT  SYSnnn,vvvvvv,1,0,ssss,nnnn
// ASSGN   SYS011,TAPE
// TLBL    SYS011,'ARCHIVE,PRINTLOG'
// ASSGN   SYS020,TAPE
// TLBL    SYS020,'OUTPUT.TAPE'
// DLBL    SYS005,'SCRATCH1',0
// EXTENT  SYS005,vvvvvv,,ssss,nnnn
// ASSGN   SYS005,DISK,VOL=vvvvvv,SHR
// DLBL    SYS006,'SCRATCH2',0
// EXTENT  SYS006,vvvvvv,,ssss,nnnn
// ASSGN   SYS006,DISK,VOL=vvvvvv,SHR
// DLBL    SYS007,'SCRATCH3',0
// EXTENT  SYS007,vvvvvv,,ssss,nnnn
// ASSGN   SYS007,DISK,VOL=vvvvvv,SHR
// DLBL    SYS008,'SCRATCH4',0
// EXTENT  SYS008,vvvvvv,,ssss,nnnn
// ASSGN   SYS008,DISK,VOL=vvvvvv,SHR
// ASSGN   SYS004,SYSLST
// ASSGN   SYS010,SYSIPT
// UPSI 1
// EXEC CULPRIT,SIZE=400K
 PARAM=NOLIST
=COPY 'PMIRPT00'
=COPY 'PMNAME'
=COPY 'PMIRPT01'
=COPY 'PMIRPT02'
 .
 .
 .
=COPY 'PMIRPT99'
/*
REPORT FROM 09:00 ON 5/15/10
/*
/&
```

nnnn	Number of tracks (CKD) or blocks (FBA) in disk extent
ssss	Starting track (CKD) or block (FBA) of disk extent
vvvvvv	Volume serial number

IDMSLBLS procedure

The IDMSLBLS procedure (provided at installation) contains the file definitions for CA IDMS dictionaries and databases.

For more information:

Archiving—z/VSE (see page 28)).

IDMSLBLS references the SYSIDMS parameters file. In SYSIDMS, you can specify physical requirements (such as DMCL or dictionary), runtime parameters, and operating system-dependent file information.

Note: For more information about SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.

Running reports—z/VM

CULPRIT for running Performance Monitor reports (z/VM)

```
FILEDEF SYSIN DISK sysin data a (LRECL 80 BLKSIZE 80 RECFM F
EXEC CULPFD
OSRUN CULPRIT
```

sysin data a	Filename, type, and mode of the file containing CA Culprit statements
CULPFD	Exec which defines all file definitions required by the system

Runtime parameters

CULPFD references the SYSIDMS parameters file. In this file you can specify physical requirements (like DMCL or dictionary), runtime parameters, and operating system-dependent file information.

Note: For more information about SYSIDMS parameters, see the *CA IDMS Database Administration Guide*.

Executing in local mode

To specify that CA Culprit is executing in local mode, do one of the following:

- Link CA Culprit with an IDMSOPTI program that specifies local execution mode.
- Specify *LOCAL* as the first input parameter of the *sysin data a* file identified in the FILEDEF SYSIN statement.
- Modify the OSRUN statement:

  ```
  OSRUN CULPRIT PARM='*LOCAL*'
  ```

  Note: This option is available only if the OSRUN command is issued from a System Product interpreter or an EXEC2 file.

To create the SYSIN file, enter these z/VM commands:

```
XEDIT sysin data a (NOPROF
INPUT
 database cvmach=TS10
 PARAM=LIST
=COPY 'PMIRPT00'
=COPY 'PMNAME'
=COPY 'PMIRPT01'
=COPY 'PMIRPT02'
 .
 .
 .
=COPY 'PMIRPT99'
FILE
```

Replacing the COPY Parameters (z/VSE only)

CA Culprit cannot create variable-length records in a z/VSE environment. Therefore, make the changes described in this section to compensate for fixed-length records.

Changing PMARPT90 and PMIRPT90

Replace the COPY parameters in your job stream with USE and CHANGE statements, as follows:

- For PMARPT90:

  ```
  USE 'PMARPT00'
  USE 'PMNAME'
  USE 'PMARPT90'
  CHANGE ' 900UT 280 D PS '  TO  ' 900UT 280 8120 D PS '
  USE 'PMARPT99'  optional
  ```

- For PMIRPT90:

```
USE 'PMIRPT00'
USE 'PMNAME'
USE 'PMIRPT90'
CHANGE ' 90OUT 280 D PS '  TO  ' 90OUT 280 8120 D PS '
USE 'PMIRPT99'  optional
```

Changing PMARPT00 and PMIRPT00

Replace the COPY parameters in your job stream with USE and CHANGE statements, as follows:

- For PMARPT00:

```
USE 'PMARPT00'
CHANGE ' IN 280 V 6000 '  TO ' IN 280 F 8120 '
USE 'PMNAME'
USE 'PMARPTXX'  specify the required report(s)
USE 'PMARPT99'  optional
```

- For PMIRPT00:

```
USE 'PMIRPT00'
CHANGE ' IN 280 V 6000 '  TO ' IN 280 F 8120 '
USE 'PMNAME'
USE 'PMIRPTXX'  specify the required report(s)
USE 'PMIRPT99'  optional
```

Replacing the COPY Parameters For Tape Input (z/VSE only)

Archive log tapes created under z/VSE have a blocksize of 32760, unless file overrides are specified in the SYSIDMS parameters. Therefore, make the changes described in this section to run Performance Monitor reports with tape input. If SYSIDMS file overrides have been used, substitute that blocksize for 32760.

Changing PMARPT00

Replace the COPY parameters in your job stream with USE and CHANGE statements, as follows:

```
USE 'PMARPT00'
CHANGE ' IN 280 V 6000 '  TO ' IN 280 V 32760 '
USE 'PMNAME'
USE 'PMARPTXX'  specify the required report(s)
```

Changing PMIRPT00

Replace the COPY parameters in your job stream with USE and CHANGE statements, as follows:

```
USE 'PMIRPT00'
CHANGE ' IN 280 V 6000 '  TO ' IN 280 V 32760 '
USE 'PMNAME'
USE 'PMIRPTXX'  specify the required report(s)
```

Note For DDR-Only Shops

DDR-only shops must use the CULPRIT *USE* statement to request the following reports:

- PMIRPT00
- PMARPT00

Instead of using the =COPY statement, as demonstrated by the examples earlier in this section, use the following:

PMIRPT00

```
                                                    PMCULLID for z/VSE
USE  'PMIRPT00'                                     ▼
CHANGE 'IN 80'                    TO 'IN 363 V 367 UM(PMCULLIM) $'
CHANGE 'REC FILE1-EOF'            TO 'REC FILE1-EOF 283 1 2 $'
CHANGE 'CARD-REC 1'               TO 'CARD-REC 284'
CHANGE 'CARD-GRP 1'               TO 'CARD-GRP 284'
CHANGE 'IN 280'                   TO '00$'
CHANGE 'IN 285 F 285 PS MB=DUMMY' TO 'IN 285 F 285  MB=DUMMY'
CHANGE 'IN 457 F 457 PS MB=DUMMY' TO 'IN 457 F 457  MB=DUMMY'
CHANGE 'IN 301 F 301 PS MB=DUMMY' TO 'IN 301 F 301  MB=DUMMY'
USE   'PMNAME'
USE   'PMIRPTnn'     ◄ Specify the required report(s)
USE   'PMIRPT99'     ◄ Optional
```

PMARPT00

```
                                                        PMCULLID for z/VSE
USE  'PMARPT00'                                         ▼
CHANGE 'IN 80'                    TO 'IN 363 V 367 UM(PMCULLIM) $'
CHANGE 'REC FILE1-EOF'            TO 'REC FILE1-EOF 283 1 2 $'
CHANGE 'CARD-REC 1'               TO 'CARD-REC 284'
CHANGE 'CARD-GRP 1'               TO 'CARD-GRP 284'
CHANGE 'IN 280'                   TO '00$'
CHANGE 'IN 496 F 496 PS MB=DUMMY' TO 'IN 496 F 496 MB=DUMMY'
USE   'PMNAME'
USE   'PMARPTnn'     ◄ Specify the required report(s)
USE   'PMARPT99'     ◄ Optional
```

For more information:

For more information about the reports, see Interval Monitor Batch Reports (see page 111), and Application Monitor Batch Reports (see page 111). For more information about the USE statement, see the *CULPRIT Reference*.

z/OS blocksize considerations

The input JCL for the statistics input file (SYS011) must specify a DCB=BLKSIZE=*nnnnn* parameter. *Nnnnn* must be at least 280 bytes larger than the actual block size of the file. If the DCB specified is not large enough, CULPRIT may receive an 0C4 abend.

Example:

If the input file has a blocksize of 11476, an appropriate SYS011 DD statement is:

```
//SYS011 DD DSN=PM.STATS,
//          DISP=OLD,DCB=BLKSIZE=12000
```

Chapter 4: Interval Monitor Batch Reports

This section contains the following topics:

Overview

You can use Interval Monitor reports to:

- Track system utilization
- Perform trend analysis

You use a standard CA Culprit job stream to run Interval Monitor reports. The report definitions are stored in the data dictionary. You can specify selection criteria to provide maximum control over the information printed.

The first section in this chapter describes how to request Interval Monitor reports. The remainder of the chapter contains a description of each of the numbered reports listed in the following table.

Report	Title/description
00	Extract and housekeeping routines (used internally)
PMNAME	Site or user name to appear in report heading lines
01	Management Summary Report
02	Trend Analysis Report
04	Summary Wait Detail
05	DBkey/Area Detail
09	Shared Cache Summary
10	DBGroup Summary
11	I/O by Area Summary
12	I/O by File Summary
13	Buffer Summary
14	CDMSLIB Summary

Report	Title/description
15	Journal Summary
16	TP Line Summary
17	Program Pool Summary
18	Storage Pool Summary
19	Storage Wait Summary
21	I/O by Area Detail
22	I/O by File Detail
23	Buffer Detail
24	CDMSLIB Detail
25	Journal Detail
27	Program Pool Detail
29	Storage Type Detail
30	Interval Statistics Summary
32	Run Unit Statistics Summary
38	Journal Block Full Detail
40	Data Sharing SYSPLEX Detail Report
99	Input Processing Summary Report

Requesting Reports

You request Interval Monitor reports using a CA Culprit job stream. The job control language you need to run the reports is shown in Preparing to Run Reports (see page 25). In the job stream, you supply:

- Selection criteria parameters — for including and/or excluding specific information from the reports
- Report specification parameters — for specifying the dictionary to use, formatting options, and the appropriate report names

You can request any or all of the reports in a single run.

General rules for parameter input

- Every parameter is optional.
- Include any or all of these parameters in a single run.

- Use a single line for each separate parameter.
- If you specify more than one parameter, *all* conditions that you specify must be met in order for you to select an interval for reporting.
- Use columns 1 through 72. Input beyond column 72 is ignored. No error is flagged (unless a quoted description is truncated).
- An asterisk (*) in column 1 indicates a comment line.
- Specify either the 3-letter abbreviation or the whole word. For example, EXCLUD is invalid. The syntax rules indicate (in uppercase characters) any other allowable abbreviations or synonyms.
- Blank lines are ignored but generate a warning message.

Selection criteria parameters

Include selection criteria parameters in your CA Culprit JCL to include information in or exclude information from your Performance Monitor reports.

Selection criteria parameters apply to all of the reports you request in the same run. For example, if you specify a time interval using the REPORT FROM/THRU parameter, that interval is used for all of the reports in the run.

Positioning selection criteria parameters

Position your selection criteria parameters in the JCL stream as follows:

System	Position in JCL
z/OS	Following the //SYS010 DD * statement
z/VSE	Following the /* in the EXEC CULPRIT step
z/VM	In the SYS010 file

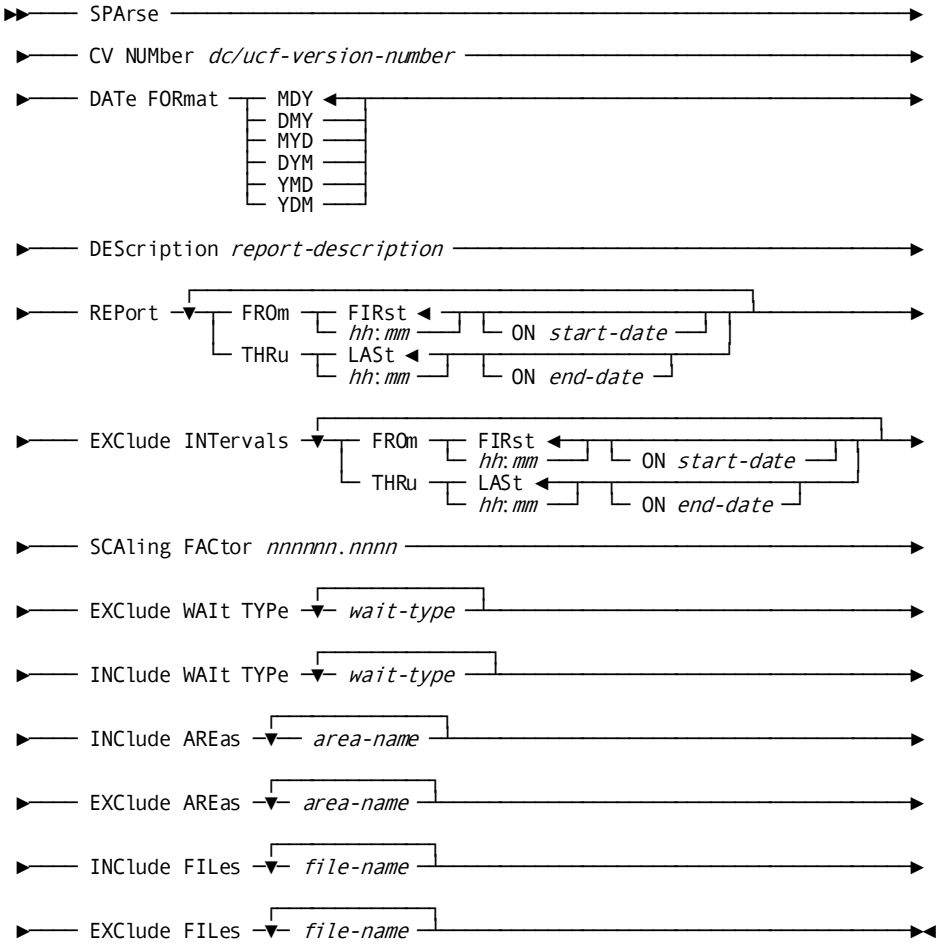
When you don't need selection parameters

If you don't need selection parameters for the run, then for:

- z/OS— Use //SYS010 DD DUMMY
- z/VM— Leave out the parameters
- z/VSE— Use SYS010 DUMMY

Syntax

Descriptions for Interval Monitor selection criteria parameters follow the syntax diagram. You can omit leading zeros where syntax uses a number, unless otherwise noted.



Parameters

SPArse

Suppresses display of blank lines in these reports:

- PMIRPT11 (I/O by Area Summary)
- PMIRPT12 (I/O by File Summary)
- PMIRPT14 (CDMSLIB Summary)
- PMIRPT16 (TP Line Summary)

CV NUMber *dc/ucf-version-number*

Identifies the DC/UCF system for which Performance Monitor is to report interval statistics; *dc/ucf-version-number* is a number between 0 and 9999. You can specify a system version value up to 20 times. You can place multiple values on one line. An acceptable abbreviation for NUMBER is NBR.

DATe FORmat MDY/DMY/MYD/DYM/YMD/YDM

Specifies the date format that appears on the reports. Additionally, the date format you choose is used for any date specification parameters. For example, if you specify DMY, Performance Monitor expects the REPORT FROM/THRU *start-date* and *end-date* to be in the format DMY. The default is MDY. An acceptable abbreviation for FORMAT is FMT.

DEScription *report-description*

Specifies a description to appear in the report footers. *Report-description* is a 1- through 64-character value. If it contains embedded spaces, you must use single quotes. Use two quotation marks to indicate a quotation mark that is part of the description.

REPort FROm/THRu

Selects intervals to be included in the report. If you want to report on the entire input file, do not include this parameter. You can specify this parameter once per run, and you must specify at least one FROM **or** one THRU. The default is FROM 00:00 ON 00/001 THRU 24:00 ON 99/365.

Regarding the time specification:

- Specify the time as *hh:mm* or *hhmm* (00:00 through 24:00).
- Times include the entire minute. For example, THRU 14:34 means up to 14:34:59.9999.
- Times must include the leading 0. For example, 09:00 is valid, but 9:00 is not.
- If you specify a time range, the FROM time must be earlier than the THRU time.

Regarding the date specification:

- Julian: *yy/ddd*
- Gregorian: as specified by DATE FORMAT
- The FROM date must be earlier or matching the THRU date.
- Slashes are optional in date specifications.

EXClude INTervals FROm/THRu

Specifies intervals to be excluded from the report. EXCLUDE INTERVALS follows the same general rules as REPORT FROM/THRU.

SCAling FACtor *nnnnnn.nnnn*

Defines a scaling factor for report graphs; *nnnnnn.nnnn* specifies the scaling factor (for example, .01 scaling data in hundredths). An acceptable synonym for the keyword is SCALE FACTOR.

Nnnnnn.nnnn is a numeric value. The decimal point is not required and, if present, can be leading or trailing. Any more than four digits to the right of the decimal point are truncated. For example, 1.2345678 will be truncated to 1.2345. About the value you can specify:

- 0 is invalid.
- The default is 1.0.
- The maximum is 999999.9999.
- Examples of valid values:

```
  3456            .3456
  1234.5678    45.
000000.01       0.3
```

EXClude WAIt TYPe *wait-type*

Excludes specified wait types from PMIRPT01 (the Management Summary Report). You can specify multiple wait types and include them all on the same line.

Wait type	Meaning
AREA	Area waits
BUFFER	Buffer waits
CKUSER	Check-user waits
DBGROUP	DBGroup waits
DBKEY	Db-key waits
DDS	DDS waits
ERUS	Run unit/request unit waits
EXTERNAL	External waits (outside the system)
INTERNAL	Internal waits (in the system)
IO	I/O waits
JOURNAL	Journal waits
JRNLBUF	Journal buffer waits
LDRSINGLE	Loader single-threaded waits
LINE	TP line waits
LOADS	Load-area waits

Wait type	Meaning
LOG	Log waits
LOGSINGLE	Log single-threaded waits
LOGFULL	Log full waits
MAXTASK	Waits because of maxtasks condition
PGMPOOL	Program-pool waits
PRIOR	Waits for a prior I/O (z/VSE only)
QUEUE	Queue-area waits
SCRATCH	Scratch-area waits
SCRSINGLE	Scratch single-thread waits
SHCACHE	Shared cache waits
STORAGE	Storage waits
XESLIST	Data sharing XES list waits
XESLOCK	Data sharing XES lock waits

INClude WAIt TYPe *wait-type*

Specifies that the named wait types be tallied together for PMIRPT02 (the Trend Analysis Report). You can specify multiple wait types and include them all on the same line. See EXCLUDE WAIT TYPE for acceptable *wait-type* values.

INClude AREa *area-name*

Includes the specified area or areas in PMIRPT05 (the DBkey/Area Detail Wait report) and PMIRPT11 (the I/O by Area Summary report).

General rules:

- Specify up to 100 areas, as needed
- You can have multiple area names on one line
- Area names can contain as many as 16 characters
- You cannot specify excludes and includes in a single run
- Criteria requested for one run applies to both the DBkey/Area and the I/O detail reports

EXClude AREa *area-name*

Excludes the specified area or areas from PMIRPT05 (the DBkey/Area Detail Wait report) and PMIRPT11 (the I/O by Area Summary report).

INClude FILe *file-name*

Specifies files to be included in PMIRPT09 (the Shared Cache Summary report) and PMIRPT12 (the I/O by File Summary report). A synonym for FILE is FILES. The same rules that apply to INCLUDE FILES also apply to INCLUDE AREAS.

EXClude FILe *file-name*

Excludes the specified file or files from PMIRPT09 (the Shared Cache Summary report) and PMIRPT12 (the I/O by File Summary report).

Example

The parameters below select only those intervals between 9:30 a.m. and 11:30 a.m., on June 16, 1999. The footers include the description PEAK MORNING PROCESSING ONLY, and the areas PAYRAREA and PERSAREA are excluded:

```
REPORT FROM 09:30 ON 6/16/10 THRU 11:30 ON 6/16/10
REPORT DESCRIPTION 'PEAK MORNING PROCESSING ONLY'
EXCLUDE AREAS PAYRAREA PERSAREA
```

Report selection parameters

Report selection parameters define:

- The dictionary that contains the report definitions
- Whether to print CA Culprit parameters
- Which reports to produce

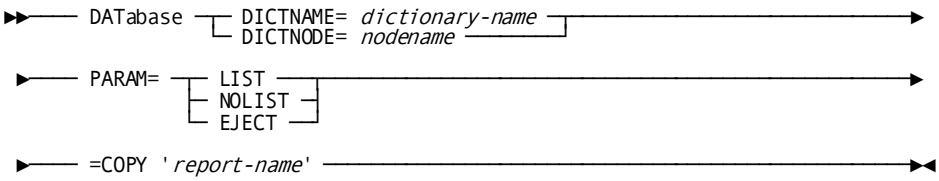
Positioning report selection parameters

Position these parameters in the report-request JCL stream, using one line for each parameter:

System	Position in JCL
z/OS	Following the //SYSIN DD * statement
z/VSE	Following the EXEC CULPRIT statement
z/VM	Following the DATABASE statement

Syntax and parameter descriptions for report selection parameters follow.

Syntax



Parameters

DATabase

Defines the data dictionary that contains the report definitions (DICTNAME option) or the node that controls the dictionary (DICTNODE option). Start this parameter in column 2.

PARAM=LIST/NOLIST/EJECT

Controls printing of the CA Culprit Sequential Input Parameter List:

- LIST (default) prints all parameters
- NOLIST prints no parameters
- EJECT starts each new listing at the top of a new page

Start this parameter in column 2.

=COPY '*report-name*'

Requests the named report; begin =COPY in column 1; you can repeat the parameter any number of times. *Report-name* must be enclosed in quotes.

Value for report-name	Meaning
PMIRPT00	Performs housekeeping functions and extracts statistics for input to other reports; required, but not an output report
PMNAME	Supply the user site or company name to be printed in the heading of each report; required, but not an output report
PMIRPT99	List an input processing summary based on the selection criteria specified

Value for report-name	Meaning
PMIRPT*nn*	Produce the report defined by the number (*nn*) specified: 01 Management Summary Report 02 Trend Analysis Report 03 Variance Analysis Report 04 Detail Wait Report - Summary 05 Detail Report - Db-key/Area 09 Summary Report - Shared Cache 10 Summary Report - DBGroup 11 Summary Report - I/O by Area 12 Summary Report - I/O by File 13 Summary Report - Buffer 14 Summary Report - CDMSLIB 15 Summary Report - Journal 16 Summary Report - TP Line 17 Summary Report - Program Pool 18 Summary Report - Storage Pool 19 Summary Report - Storage Waits 21 Detail Report - I/O by Area 22 Detail Report - I/O by File 23 Detail Report - Buffer 24 Detail Report - CDMSLIB 25 Detail Report - Journal 27 Detail Report - Program Pool 29 Detail Report - Storage Type 30 Summary Report - Interval Statistics 32 Summary Report - Run Unit Statistics 38 Detail Report - Journal Block Full 40 Detail Report - Data Sharing SYSPLEX

Example

The following report parameters select all printed reports. The CA Culprit report definitions are stored in the DICTCAS dictionary (DATABASE DICTNAME=DICTCAS). The report source (PARAM=NOLIST) is not printed.

```
 DATABASE DICTNAME=DICTCAS
 PARAM=NOLIST
=COPY 'PMIRPT00'
=COPY 'PMNAME'
=COPY 'PMIRPT99'
=COPY 'PMIRPT01
=COPY 'PMIRPT02'
=COPY 'PMIRPT03'
=COPY 'PMIRPT04'
=COPY 'PMIRPT05'
=COPY 'PMIRPT09'
=COPY 'PMIRPT10'
=COPY 'PMIRPT11'
=COPY 'PMIRPT12'
=COPY 'PMIRPT13'
=COPY 'PMIRPT14'
=COPY 'PMIRPT15'
=COPY 'PMIRPT16'
=COPY 'PMIRPT17'
=COPY 'PMIRPT18'
=COPY 'PMIRPT19'
=COPY 'PMIRPT21'
=COPY 'PMIRPT22'
=COPY 'PMIRPT23'
=COPY 'PMIRPT24'
=COPY 'PMIRPT25'
=COPY 'PMIRPT27'
=COPY 'PMIRPT29'
=COPY 'PMIRPT30'
=COPY 'PMIRPT32'
=COPY 'PMIRPT38'
=COPY 'PMIRPT40'
```

Report Samples

The remainder of this chapter describes each report.

Required reports

These two required reports have no output:

- PMIRPT00— Reads the input (archive) tape and formats it into global data fields; the data fields provide the input for all other reports
- PMNAME— Reads the PMNAME module and inserts its contents into a global field called COMPANY-NAME; this produces the heading for each report

Optional reports

The remaining optional reports for the Interval Monitor are described in numeric order. Each report description includes:

- An overview description
- A sample report
- A description of the fields in the report

PMIRPT01: Management summary report

PMIRPT01 is a summary report for all wait types not excluded by input selection parameters. The report shows the total wait count and time across all intervals on a graphic representation of wait time for that wait type. If any wait types were excluded by input selection parameters, the word EXCLUDED appears in the graph.

Sample report

```
REPORT NO. 01                                                CA, INC.                                      mm/dd/yy PAGE    1
 CA IDMS/PM nn.n    volser                           MANAGEMENT SUMMARY REPORT
 DC SYSTEM VERSION #:    71              <------------- YOUR COMPANY NAME ------------->          DATA FROM: mm/dd/yy

   WAIT TYPE        WAITS     WAIT TIME    SCALED BY TIME ("X" REPRESENTS     1.0000  SECONDS)
                               (SECS)   .........|.........|.........|.........|.........|.........|.........|.........|
 DB I/O               179        3.42   XXX
 PRIOR FILE I/O         0         .00
 DB BUFFER              4         .23
 JRNL I/O              20         .12
 JRNL BUFFER            0         .00
 DBKEY                  0         .00
 LOG I/O              492        8.81   XXXXXXXX
 LOG SNGL THRD          3         .01
 LOG FULL               0         .00
 SCR I/O                0         .00
 SCR SNGL THRD          0         .00
 QUEUE I/O          1,000        4.48   XXXX
 STORAGE                0         .00
 PROGRAM POOL           0         .00
 PROGRAM LOADS          0         .00
 LOAD SNGL THRD         0         .00
 AREA                   0         .00
 ERUS                   0         .00
 DDS                    0         .00
 CHECK USER             0         .00
 TP LINE I/O          302      109.51   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX —►
 MAX TASK               0         .00
 DBGROUP              821       25.91   XXXXXXXXXXXXXXXXXXXXXXXXX
 SHARED CACHE         312        2.23   XX
 OTHER EXTERNAL     1,024       10.09   XXXXXXXXXX
 OTHER INTERNAL         0         .00

 TOTAL              4,157      164.81
 EXCLUDED TOTAL         0         .00
```

PMIRPT01 fields

Field	Description
Wait Type	Category of wait.
Waits	Count of waits for the indicated category.
Wait Time	Total time spent in waits for the category, across the reported intervals.
Scaled by Time	Graphic representation of total wait time for reported intervals spent for each category of wait. Each X represents a certain number of seconds (as specified by the scaling factor). The symbol —► indicates that the line goes past the right side of the graph.

PMIRPT02: Trend analysis report

PMIRPT02 contains one summary line for each reported interval. Each line shows the total wait count and time and a graphic representation of wait time for the wait type.

Sample report

```
REPORT NO. 02                                          CA, INC.                               mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                         TREND ANALYSIS REPORT
DC SYSTEM VERSION #:    56                 <------------- YOUR COMPANY NAME ------------->        DATA FROM: mm/dd/yy

  INTERVAL     WAITS     WAIT TIME      SCALED BY TIME ("X" REPRESENTS    1.0000  SECONDS)
 START TIME               (SECS)   .........|.........|.........|.........|.........|.........|.........|.........|

   14:58:16     2169        98.36  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   15:00:00      102        10.70  XXXXXXXXXX
   15:10:00      169         6.11  XXXXXX
   15:20:00      100         5.02  XXXXX
   15:30:00      900        33.63  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
   15:40:00     3937       118.03  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   15:50:00     6677       321.10  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   16:00:00     2236        91.54  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   16:10:00    12755       382.87  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   16:20:00    17018       457.57  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   16:30:00     4946       182.55  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  →
   16:40:00      485        36.43  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
   16:50:00      333        18.30  XXXXXXXXXXXXXXXXXX
   17:00:00       83         2.83  XX
   17:10:00       92         3.23  XXX
   17:20:00       92         3.57  XXX
   17:30:00      102         8.39  XXXXXXXX
   17:40:00       92         3.38  XXX
   17:50:00      172         6.54  XXXXXX
   18:00:00       89         8.83  XXXXXXXX
   18:10:00     4317        78.06  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
   18:20:00       85         2.94  XX
   18:30:00       96         6.68  XXXXXX
   18:40:00       93         3.44  XXX
   18:50:00      483        11.81  XXXXXXXXXXX
   19:00:00      291        18.19  XXXXXXXXXXXXXXXXXX
```

PMIRPT02 fields

Field	Description
Interval Start Time	Starting time (*hh:mm:ss*) for the interval.
Waits	Count of waits for the interval.
Wait Time	Total time spent in waits during the interval.
Scaled by Time	Graphic representation of the total wait time that occurred during this interval. Each X represents a certain number of seconds (as specified by the scaling factor). The symbol —▶ indicates that the line goes past the right side of the graph.

PMIRPT04: Summary wait detail report

PMIRPT04 is a summary report for each selected interval. The report shows information about the task activity that occurred during each interval.

Sample report

```
REPORT NO. 04                                        CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        SUMMARY WAIT DETAIL REPORT
DC SYSTEM VERSION #:    56            <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


      START    TASKS   TASKS     SYSTEM      USER       DB        DB      OTHER    OTHER    OTHER    OTHER     MISC      MISC
       TIME    STRTD   ENDED      CPU        CPU       I/O       I/O       I/O      I/O      PGM      PGM     SYSTEM    SYSTEM
                                 (SECS)     (SECS)    WAITS   WAIT TIME  WAITS  WAIT TIME  WAITS  WAIT TIME  WAITS   WAIT TIME
     15:30:00      74      75      2.426                 756     24.752    129      8.868     15       .010
     15:40:00     166     164      2.853                3481     99.392    436     16.642     20      2.000
     15:50:00      31      32      5.732                6229    296.651    433     24.249      8       .003      7        .182
     16:00:00       2       1       .018                1611     64.028    621     27.502      4       .011
     16:10:00      22      22     11.919               10989    334.751   1750     46.569     13       .088      3       1.464
     16:20:00      17      18      2.433               15998    411.194    997     44.953     10       .003     13       1.421
     16:30:00      49      48     14.282                4608    146.877    281     22.819     10      1.677     47      11.164
     16:40:00      87      89       .403                  14      1.277    446     22.132      4                21      13.017
     16:50:00      53      53       .261                  23       .859    290     11.553     14      2.888      6       3.004
```

PMIRPT04 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Tasks Strtd	Count of tasks that were initiated during the interval
Tasks Ended	Count of tasks that terminated during the interval
System CPU	Total system CPU time used during the interval
User CPU	Total user CPU time used during the interval
DB I/O Waits	Count of database I/O waits during the interval
DB I/O Wait Time	Time spent in database I/O waits during the interval (*ssss.ttt*)
Other I/O Waits	Count of additional I/O waits during the interval, including waits for: ■ Journal ■ DDLDCLOG ■ DDLDCRUN ■ DDLDCMSG ■ Program-load reads
Other I/O Wait Time	Time spent in additional I/O waits during the interval (*ssss.ttt*)
Other Pgm Waits	Count of additional program waits during the interval

Field	Description
Other Pgm Wait Time	Time (*ssss.ttt*) spent in additional program waits during the interval, including waits for: ■ Db-keys ■ Buffers ■ Journal buffers ■ Program pool ■ Storage pool ■ TPIO ■ Area shared/protected/exclusive ■ DBGroup
Misc System Waits	Miscellaneous system waits that occurred during the interval
Misc System Wait Time	Time spent in miscellaneous waits during the interval (*ssss.ttt*), including waits for: ■ External request units ■ Check user waits ■ Log single threading and log full conditions ■ Scratch single threading ■ Loader single threading ■ DDS ■ New task conditions ■ Unidentified external and internal waits

PMIRPT05: DBkey/Area detail report

PMIRPT05 contains detailed area-access information for each reported interval. The report shows one line for each area accessed during each interval that shows information on db-key and area waits.

Sample report

```
REPORT NO. 05                                        CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        DBKEY/AREA DETAIL REPORT
DC SYSTEM VERSION #:    56            <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


   START                        AREA            DBKEY     DBKEY      AREA     BUFFER     PAGE      SHR       PAGE      EXCL
    TIME                        NAME            WAITS      WAIT    BUFFER     WAIT      SHR       WAIT      EXCL      WAIT
                                                           TIME     WAITS     TIME     WAITS      TIME     WAITS      TIME
         16:20:00  CA30NWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CA30NWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CFAXNWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CFAXNWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CG30NWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CG30NWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CKSXNWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CKSXNWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CSADNWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CSADNWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCLOD                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCLOG                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCRUN                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCSCR                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDML                    0      .0000         0      .0000         0      .0000         0      .0000
         16:30:00  CA30NWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CA30NWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CFAXNWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CFAXNWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CG30NWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CG30NWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CKSXNWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CKSXNWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   CSADNWK.DDLDCLOD                 0      .0000         0      .0000         0      .0000         0      .0000
                   CSADNWK.DDLDML                   0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCLOD                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCLOG                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCRUN                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDCSCR                  0      .0000         0      .0000         0      .0000         0      .0000
                   SYSTEM.DDLDML                    0      .0000         0      .0000         0      .0000         0      .0000
```

PMIRPT05 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Area Name	Name of the DC/UCF area
DBkey Waits	Count of access requests in the area that required a wait on a db-key
DBkey Wait Time	Total time spent on db-key waits for the area (*ss.tttt*)
Area Buffer Waits	Number of times that tasks had to wait for a buffer pool page to become available for database page usage
Area Buffer Wait Time	Total time spent waiting for a buffer pool page to become available (*ss.tttt*)

Field	Description
Page Share Waits	Number of times that tasks had to wait for shared access to a database page that was already in a buffer pool
Page Share Wait Time	Total time spend waiting for shared access to an area's pages (*ss.tttt*)
Page Excl Waits	Number of times that tasks had to wait for exclusive access to a database page that was already in the buffer pool
Page Excl Wait Time	Total time spent waiting for exclusive access to an area's pages (*ss.tttt*)

PMIRPT09: Shared cache summary report

PMIRPT09 contains information about the use of the Shared Cache in the Coupling Facility. The report shows all the shared cache that were active in the corresponding intervals, and for each shared cache, all the files that were assigned to it. Files that were excluded by input selection parameters do not appear on the report.

Sample report

```
REPORT NO. 09                                    CA, INC.                                    mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                    SHARED CACHE SUMMARY REPORT
DC SYSTEM VERSION #:    71          <-------------- YOUR COMPANY NAME ------------->      DATA FROM: mm/dd/yy


                                                                                                  SH-CACHE  AVG SH-CACHE
     START      SHARED CACHE        FILE NAME                NUMBER OF  FOUND IN  NUMBER OF  SH-CACHE  WAIT TIME   WAIT TIME
      TIME          NAME                                       READS     CACHE     WRITES     WAITS     (SECS)      (SECS)

     7:54:10  IDMSCACHE00001    DBCR.ACCOUNTA                      1                   1
                                DBCR.ACCOUNTB
                                DBCR.ACCOUNTD
                                DBCR.ACCOUNTE
              IDMSCACHE00002    DBCR.ACCOUNTC
                                DBCR.BRANCHA                       1                   1
                                DBCR.BRANCHB
                                DBCR.BRANCHC
                                DBCR.BRANCHD
     8:00:00  IDMSCACHE00001    DBCR.ACCOUNTA
                                DBCR.ACCOUNTB                      1                   1         2       .011       .0055
                                DBCR.ACCOUNTD
                                DBCR.ACCOUNTE
              IDMSCACHE00002    DBCR.ACCOUNTC
                                DBCR.BRANCHA                       1                   1         2       .037       .0184
                                DBCR.BRANCHB
                                DBCR.BRANCHC
                                DBCR.BRANCHD
     8:10:00  IDMSCACHE00001    DBCR.ACCOUNTA                     31        17        14        43       .276       .0064
                                DBCR.ACCOUNTB                     39        21        18        56       .476       .0085
                                DBCR.ACCOUNTD                     49        20        29        76       .400       .0053
                                DBCR.ACCOUNTE                     32        12        20        51       .404       .0079
              IDMSCACHE00002    DBCR.ACCOUNTC                     38         6        32        70       .490       .0070
                                DBCR.BRANCHA
                                DBCR.BRANCHB
                                DBCR.BRANCHC                       1                   1         2       .037       .0187
                                DBCR.BRANCHD                       2                   2         4       .041       .0102
```

PMIRPT09 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Shared Cache Name	Name of the shared cache
File Name	Name of the file that is assigned to the corresponding shared cache
Number of Reads	Number of read requests from a specific file in the shared cache
Found in Cache	Number of times a database page we want to read was already present and valid in the shared cache
Number of Writes	Number of write requests to a specific file in the shared cache
Sh-Cache Waits	Number of waits for a specific file in the shared cache
Sh-Cache Wait Time	Amount of time spent waiting for a specific file in the shared cache
Avg Sh-Cache Wait Time	Average wait time for a specific file in the shared cache

PMIRPT10: DBGroup summary report

PMIRPT10 contains information about the use of the dynamic routing of database sessions. The report shows all the DBGroups to which database sessions have been dynamically routed for processing.

Sample report

```
REPORT NO. 10                                          CA, INC.                                    mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                       DBGROUP SUMMARY REPORT
DC SYSTEM VERSION #:    71              <------------- YOUR COMPANY NAME ------------->        DATA FROM: mm/dd/yy


                                                                DBGROUP       AVG DBGROUP
      START       DBGROUP        NUMBER OF       DBGROUP       WAIT TIME      WAIT TIME      SERVER NODE     # REQUESTS
       TIME        NAME           REQUESTS        WAITS          (SECS)         (SECS)          NAME          PROCESSED

      8:00:00      DBDCGR               1             1            .002          .0022          SYSTEM71              1
      8:10:00      DBDCGR            1019           820          25.904          .0316          SYSTEM71            472
                                                                                                SYSTEM74            547
```

PMIRPT10 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
DBGroup Name	Name of the DBGroup
Number of Requests	Total number of requests that have been submitted to the DBGroup
DBGroup Waits	Total number of waits for the DBGroup
DBGroup Wait Time	Total amount of time spent waiting for the DBGroup
Avg DBGroup Wait Time	Average wait time for the DBGroup
Server Node Name	Name of the server node
# Requests Processed	Number of requests submitted to the DBGroup that have been processed by the corresponding server number

PMIRPT11: I/O by area summary report

PMIRPT11 contains detailed I/O information for each reported interval. The report shows one line for each area accessed during each interval that shows information on I/O requests for the area.

Sample report

```
REPORT NO. 11                                    CA, INC.                                    mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                    I/O BY AREA SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


    START            AREA          READ     READ    AVG READ WRITE    WRITE   AVG WRITE  BUFFER BUFFER   BUFFER   AVG BUFR
     TIME            NAME          I/O   WAIT TIME WAIT TIME  I/O   WAIT TIME WAIT TIME   HITS  WAITS  WAIT TIME WAIT TIME
                                  WAITS    (SECS)    (SECS)  WAITS    (SECS)    (SECS)                          (SECS)    (SECS)

 16:20:00
         CA30NWK.DDLDCLOD             6                                                    2
         CA30NWK.DDLDML           14627   345.000    .0236                               108
         CFAXNWK.DDLDCLOD           777    33.000    .0425                                16
         CFAXNWK.DDLDML               5                                                    1
         CG30NWK.DDLDCLOD           147     7.000    .0476                                12
         CG30NWK.DDLDML
         CKSXNWK.DDLDCLOD           427    25.000    .0585                                13
         CKSXNWK.DDLDML               5                                                    1
         CSADNWK.DDLDCLOD
         CSADNWK.DDLDML
         SYSTEM.DDLDCLOD              4                                                   12
         SYSTEM.DDLDCLOG                                        60     9.000    .1500       0
         SYSTEM.DDLDCRUN
         SYSTEM.DDLDCSCR                                       936    35.000    .0374       0
         SYSTEM.DDLDML                                                                     22
 16:30:00
         CA30NWK.DDLDCLOD             5                                                   28
         CA30NWK.DDLDML            4565   145.000    .0318                                28
         CFAXNWK.DDLDCLOD
         CFAXNWK.DDLDML
         CG30NWK.DDLDCLOD             5                                                   60
         CG30NWK.DDLDML
         CKSXNWK.DDLDCLOD             5     1.000    .2000                                28
         CKSXNWK.DDLDML
         CSADNWK.DDLDCLOD
         CSADNWK.DDLDML
         SYSTEM.DDLDCLOD              6                                                   11
         SYSTEM.DDLDCLOG                                        70    10.000    .1429       0
         SYSTEM.DDLDCRUN                                         2                         15
         SYSTEM.DDLDCSCR                                       199    13.000    .0653       0
         SYSTEM.DDLDML               17     1.000    .0588                                33
```

PMIRPT11 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Area Name	Name of the DC/UCF area
Read I/O Waits	Count of physical read I/Os that resulted in a wait
Read Wait Time	Total time spent waiting for physical read I/Os (*ss.ttt*)
Avg Read Wait Time	Average amount of time spent waiting for physical read I/Os against the area (*ss.tttt*)
Write I/O Waits	Count of physical write I/Os that resulted in a wait
Write Wait Time	Total time spent waiting for physical write I/Os (*ss.ttt*)

Field	Description
Avg Write Wait Time	Average amount of time spent waiting for physical write I/Os against the area (*ss.tttt*)
Buffer Hits	Count of requests that could be processed within the buffer, without a physical I/O
Buffer Waits	Count of waits for buffer requests; that is, the number of times a buffer was requested for the area but not available
Buffer Wait Time	Total time spent on buffer waits (*ss.ttt*)
Avg Bufr Wait Time	Average amount of time spent waiting for a buffer (*ss.tttt*)
Buffer Name	Buffer name for the area

PMIRPT12: I/O by file summary report

PMIRPT12 contains detailed I/O information for each reported interval. The report shows one line for each file accessed during each interval that shows information on I/O requests for the file.

Sample report

```
REPORT NO. 12                                    CA, INC.                                    mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                    I/O BY FILE SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME ------------->      DATA FROM: mm/dd/yy


                                 READ     READ    AVG READ WRITE    WRITE   AVG WRITE BUFFER         BUFFER   AVG BUFR
    START            FILE         I/O   WAIT TIME WAIT TIME  I/O   WAIT TIME WAIT TIME  HITS  BUFFER WAIT TIME WAIT TIME
     TIME            NAME        WAITS    (SECS)    (SECS)  WAITS    (SECS)    (SECS)         WAITS    (SECS)    (SECS)
 16:20:00
         CA30NWK.CA30DML1         7355   173.000    .0235                                  50
         CA30NWK.CA30DML2         7272   172.000    .0237                                  58
         CA30NWK.CA30LOD             6                                                    2
         CFAXNWK.CFADML              5                                                    1
         CFAXNWK.CFALOD            777    33.000    .0425                                  16
         CG30NWK.CG30DML
         CG30NWK.CG30LOD           147     7.000    .0476                                  12
         CKSXNWK.CKSDML              5                                                    1
         CKSXNWK.CKSLOD            427    25.000    .0585                                  13
         CSADNWK.CSADDML1
         CSADNWK.CSADDML2
         CSADNWK.CSADLOD
         SYSTEM.DCDML                                                                     22
         SYSTEM.DCLOD                4                                                   12
         SYSTEM.DCLOG                                          60     9.000    .1500       0
         SYSTEM.DCRUN
         SYSTEM.DCSCR                                         936    35.000    .0374       0
 16:30:00
         CA30NWK.CA30DML1         2303    70.000    .0304                                  13
         CA30NWK.CA30DML2         2262    75.000    .0332                                  15
         CA30NWK.CA30LOD             5                                                   28
         CFAXNWK.CFADML
         CFAXNWK.CFALOD
         CG30NWK.CG30DML
         CG30NWK.CG30LOD             5                                                   60
         CKSXNWK.CKSDML
         CKSXNWK.CKSLOD              5     1.000    .2000                                  28
         CSADNWK.CSADDML1
         CSADNWK.CSADDML2
         CSADNWK.CSADLOD
         SYSTEM.DCDML               17     1.000    .0588                                  33
         SYSTEM.DCLOD                6                                                   11
         SYSTEM.DCLOG                                          70    10.000    .1429       0
         SYSTEM.DCRUN                                           2                         15
         SYSTEM.DCSCR                                         199    13.000    .0653       0
```

PMIRPT12 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
File Name	Name of the file
Read I/O Waits	Count of physical read I/Os that resulted in a wait
Read Wait Time	Total time spent waiting for physical read I/Os (*ss.ttt*)
Avg Read Wait Time	Average amount of time spent waiting for physical read I/Os against the file (*ss.tttt*)
Write I/O Waits	Count of physical write I/Os that resulted in a wait
Write Wait Time	Total time spent waiting for physical write I/Os (*ss.ttt*)

Field	Description
Avg Write Wait Time	Average amount of time spent waiting for physical write I/Os against the file (*ss.tttt*)
Buffer Hits	Number of times a request was filled by a page already in the buffer
Buffer Waits	Number of times a task had to wait because all the pages in the buffer pool were in use by other tasks
Buffer Wait Time	Total time spent waiting for a buffer to become available (*ss.ttt*)
Avg Bufr Wait Time	Average amount of time spent waiting for a buffer (*ss.tttt*)
Buffer Name	Name of the buffer with which the file is associated

PMIRPT13: Buffer summary report

PMIRPT13 contains information related to database and journal buffer use for each reported interval. The report shows one line of information for each buffer accessed.

Sample report

```
REPORT NO. 13                                        CA, INC.                                                mm/dd/yy PAGE    2
CA IDMS/PM nn.n    volser                          BUFFER SUMMARY REPORT
DC SYSTEM VERSION #:    56            <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


                                                      HIT      BUFR      I/O     AVERAGE           BUFFER    AVERAGE    BUFR
  START          BUFFER          BUFR    BUFR     BUFR   RATIO     DISK   WAIT TIME  I/O TIME   BUFR  WAIT TIME  WAIT TIME  PAGE
   TIME           NAME          RQSTS   FLSHS     HITS    (%)      I/O      (SECS)    (SECS)   WAITS    (SECS)     (SECS)    SIZE

 16:30:00  CA30DB-BUFFER          10       0        0      .0        0                                                          0
           CSADDB-BUFFER          10       0        0      .0        0                                                          0
           DCDML-BUFFER            5       0        0      .0   978560   7517.000                                             0
           DCLOD-BUFFER           10       0        0      .0   687616  16004.000                                             0
           DCMSG-BUFFER            5       0        0      .0   417280   2857.000                                             0
           DCRUN-BUFFER           10       0        0      .0   961664     98.000                                             0
           DCSEC-BUFFER            5       0        0      .0    95680   3343.000    .0001                                    0
           DEFAULT-BUFFER         10       0        0      .0   720000  65872.000    .0006                                    0
 16:40:00  CA30DB-BUFFER          10       0        0      .0        0                                                          0
           CSADDB-BUFFER          10       0        0      .0        0                                                          0
           DCDML-BUFFER            5       0        0      .0        0                                                          0
           DCLOD-BUFFER           10       0        0      .0   829184  23481.000                                             0
           DCMSG-BUFFER            5       0        0      .0        0                                                          0
           DCRUN-BUFFER           10       0    65536   360.0   216704                                                         0
           DCSEC-BUFFER            5       0        0      .0        0                                                          0
           DEFAULT-BUFFER         10       0        0      .0        0                                                          0
 16:50:00  CA30DB-BUFFER          10       0        0      .0        0                                                          0
           CSADDB-BUFFER          10       0        0      .0        0                                                          0
           DCDML-BUFFER            5       0        0      .0   988224   4567.000                                             0
           DCLOD-BUFFER           10       0        0      .0   703872  12301.000                                             0
           DCMSG-BUFFER            5       0        0      .0        0     20.000                                             0
           DCRUN-BUFFER           10       0        0      .0        0                                                          0
           DCSEC-BUFFER            5       0        0      .0        0     26.000                                             0
           DEFAULT-BUFFER         10       0        0      .0        0                                                          0
```

PMIRPT13 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*).
Buffer Name	Name of the DC/UCF buffer pool.
Bufr Rqsts	Total number of database requests made against the buffer.
Bufr Flshs	Count of times a page had to be written to disk because another transaction required it.
Bufr Hits	Count of database requests that could be processed in the buffer without a physical I/O.
Hit Ratio	Ratio of the number of database requests that could be processed in the buffer without a physical I/O (hits) to the total number of buffer requests. For example, a hit ratio of 1.00 indicates that all database pages requested were available in the buffer. A hit ratio of 0.00 indicates that none of the database pages requested was available in the buffer.
Bufr Disk I/O	Count of requests that could not be processed in the buffer, and therefore required a physical I/O.
I/O Wait Time	Time spent waiting for I/O to complete requests that could not be processed in the buffer (*ss.ttt*).
Average I/O Time	Average amount of time spent waiting for I/O to complete requests that could not be processed in the buffer (*ss.tttt*).
Buffer Waits	Count of waits for buffer requests; that is, the number of times the buffer was requested but not available.
Buffer Wait Time	Total time spent on buffer waits (*ss.ttt*).
Average Wait Time	Average amount of time spent on buffer waits (*ss.tttt*).
Bufr Page Size	Size of the largest page maintained in the buffer pool, in bytes.
Buf Read	Number of times a database page was read from disk, not from the buffer.
Buf Write	Number of times a buffer page was discarded from the journal buffers in order to read another page.

PMIRPT14: CDMSLIB summary report

PMIRPT14 contains CDMSLIB information for each reported interval.

Sample report

```
REPORT NO. 14                                          CA, INC.                                   mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                         CDMSLIB SUMMARY REPORT
DC SYSTEM VERSION #:    56               <------------- YOUR COMPANY NAME ------------->         DATA FROM: mm/dd/yy


                           CDMS                PROGRAM            LOAD               AVG LOAD
              START        LIBRARY             LOAD               WAIT TIME          WAIT TIME
              TIME         NAME                WAITS              (SECS)             (SECS)
            14:58:16       CDMSLIB                27               1.128              .0418
            15:00:00       CDMSLIB                 1                .100              .1001
            15:10:00       CDMSLIB                14                .618              .0441
            15:20:00       CDMSLIB                 0
            15:30:00       CDMSLIB                12                .418              .0349
            15:40:00       CDMSLIB                42               2.022              .0481
            15:50:00       CDMSLIB                27               1.507              .0558
            16:00:00       CDMSLIB                 2                .084              .0419
            16:10:00       CDMSLIB                 0
            16:20:00       CDMSLIB                 1                .066              .0656
            16:30:00       CDMSLIB                10                .520              .0520
            16:40:00       CDMSLIB                 3                .129              .0431
            16:50:00       CDMSLIB                11                .489              .0444
```

PMIRPT14 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
CDMS Library Name	Name of the load library specified by ddname CDMSLIB
Program Load Waits	Total number of program load waits during the interval
Load Wait Time	Total time spent on program load waits during the interval (*ss.ttt*).
Avg Load Wait Time	Average amount of time for each program load wait during the interval (*ss.tttt*).

PMIRPT15: Journal summary report

PMIRPT15 contains detailed journal-access information for each reported interval. The report shows one line for each journal file accessed during each interval that shows information on access requests.

Sample report

```
REPORT NO. 15                                         CA, INC.                                      mm/dd/yy PAGE    2
CA IDMS/PM nn.n     volser                     JOURNAL SUMMARY REPORT
DC SYSTEM VERSION #:     56              <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


                                              READ    AVG READ         WRITE   AVG WRITE JOURNAL JRNL BUFR  AVG BUFR BEGIN  END
   START      JOURNAL         BLOCKS   READ WAIT TIME WAIT TIME WRITE WAIT TIME WAIT TIME BUFFER WAIT TIME WAIT TIME  JRNL  JRNL
    TIME       NAME          WRITTEN WAITS   (SECS)    (SECS)  WAITS   (SECS)    (SECS)   WAITS    (SECS)    (SECS)   RBN   RBN

   8:30:00 J1JRNL                      540    14.719    .0273
           J2JRNL                      540     9.593    .0178
           J3JRNL               4329   540    15.297    .0283   1302    39.673    .0305                               6554  7855
   8:45:00 J1JRNL                      537    12.358    .0230
           J2JRNL                      537     9.490    .0177
           J3JRNL               4635   537    15.605    .0291   1165    41.027    .0352                               7856  9020
```

PMIRPT15 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Journal Name	Name of the journal file, as defined in the DMCL
Blocks Written	Number of blocks written to the journal file during the interval
Read Waits	Count of physical read (rollback) I/Os against the journal; all physical read I/Os result in a wait
Read Wait Time	Total time spent waiting for physical read I/Os against the journal (*ss.ttt*)
Avg Read Wait Time	Average amount of time spent waiting for physical read I/Os against the journal (*ss.tttt*)
Write Waits	Count of physical write I/Os against the journal; all physical write I/Os result in a wait
Write Wait Time	Total time spent waiting for physical write I/Os against the journal (*ss.ttt*)
Avg Write Wait Time	Average amount of time spent waiting for physical write I/Os against the journal (*ss.tttt*)
Journal Buffer Waits	Number of time the task had to wait because all the journal buffers were in use by other tasks
Jrnl Bufr Wait Time	Total time spent waiting for a journal buffer (*ss.ttt*)
Avg Bufr Wait Time	Average amount of time spent waiting for a journal buffer (*ss.tttt*)
Begin Jrnl RBN	Relative block number of the first block written to the journal during the interval

Field	Description
End Jrnl RBN	Relative block number of the last block written to the journal during the interval

PMIRPT16: TP line summary report

PMIRPT16 contains information about teleprocessing line usage and waits for each interval.

Sample report

```
REPORT NO. 16                                                  CA, INC.                                           mm/dd/yy PAGE     1
CA IDMS/PM nn.n     volser                             TP LINE SUMMARY REPORT
DC SYSTEM VERSION #:     56            <------------- YOUR COMPANY NAME ------------->            DATA FROM: mm/dd/yy


                                                      TRMNL  TRMNL I/O  AVG TRMNL   NUM    NUM    RPL      RPL       AVG RPL
    START      LINE     NUM  TRMNL  TRMNL  READ  WRITE  I/O  WAIT TIME  I/O TIME   RPLS   RPL   WAITS  WAIT TIME  WAIT TIME
     TIME      NAME     TRMS READS WRITES  ERRS   ERRS WAITS   (SECS)     (SECS)   SGEND RQSTS          (SECS)     (SECS)

   16:00:00  CCI56       10
             CONSOLE      1
             JESRDR       1
             PRINT56      9                                                        10      1
             UCF56        6
             VTAM56      50     2    121                 4      .011      .0028    10   1820
   16:10:00  CCI56       10
             CONSOLE      1
             JESRDR       1
             PRINT56      9                                                        10      1
             UCF56        6
             VTAM56      50    22    137                13      .088      .0067    10   2098
   16:20:00  CCI56       10
             CONSOLE      1
             JESRDR       1
             PRINT56      9                                                        10      1
             UCF56        6
             VTAM56      50    19    119                10      .003      .0003    10   2333
   16:30:00  CCI56       10
             CONSOLE      1
             JESRDR       1
             PRINT56      9                                                        10      1
             UCF56        6
             VTAM56      50    45     89                10     1.677      .1677    10   2515
   16:40:00  CCI56       10
             CONSOLE      1
             JESRDR       1
             PRINT56      9                                                        10      1
             UCF56        6
             VTAM56      50    87     93                 4                .0001    10   2699
   16:50:00  CCI56       10
             CONSOLE      1
             JESRDR       1
             PRINT56      9                                                        10      1
             UCF56        6
             VTAM56      50    58     57                14     2.888      .2063    10   2822
```

PMIRPT16 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Line Name	Name of line, as defined with system generation LINE statement
Num Trms	Number of terminals on the line, as defined with system generation LTERM and PTERM statements
Trmnl Reads	Number of terminal reads that occurred during the interval
Trmnl Writes	Number of terminal writes that occurred during the interval
Read Errs	Number of read errors that occurred during the interval
Write Errs	Number of write errors that occurred during the interval
Trmnl I/O Waits	Number of waits for terminal I/O during the interval
Trmnl I/O Wait Time	Number of seconds waiting for terminal I/O during the interval (*ss.ttt*).
Avg Trmnl I/O Time	Average length of a wait for terminal I/O during the interval (*ss.tttt*).
Num RPLs Sgend	Number of request parameter lists (RPLs) specified with the system generation LINE statement RPL COUNT parameter
Num RPL Rqsts	Number of RPL requests during the interval
RPL Waits	Number of waits for an RPL during the interval
RPL Wait Time	Number of seconds spent waiting for an RPL during the interval (*ss.ttt*).
Avg RPL Wait Time	Average number of seconds for an RPL wait during the interval (*ss.tttt*).

PMIRPT17: Program pool summary report

PMIRPT17 contains information about the use of program pools for each reported interval. The report shows one line of information for each program pool used during the interval.

Sample report

```
REPORT NO. 17                                              CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n     volser                          PROGRAM POOL SUMMARY REPORT
DC SYSTEM VERSION #:    56              <------------- YOUR COMPANY NAME ------------->             DATA FROM: mm/dd/yy


                          POOL    IN   HIGH   SPACE    PGM    INTO  OVRLAY  OVRLAY                    PGMLOAD    AVG LOAD
      START       POOL    SIZE   USE  WATER  LOADED   POOL  UNALLOC UNUSED    PGM    POOL   LOAD   WAIT TIME  WAIT TIME
       TIME       TYPE     (K)   (K)    (K)     (K)  LOADS   SPACE    PGM  IN USE  WAITS  WAITS     (SECS)     (SECS)
     14:58:16  XA REENT   3788  1562   1562    1562    113     113
               REENT      1364   394    394     394     32      32
               PROGRAM     500   136    136     136      1       1
     15:00:00  XA REENT   3788  1583   1583      21      1       1
               REENT      1364   394    394
               PROGRAM     500   136    136
     15:10:00  XA REENT   3788  1653   1653      70     13      13
               REENT      1364   394    394
               PROGRAM     500   136    136
     15:20:00  XA REENT   3788  1653   1653
               REENT      1364   394    394
               PROGRAM     500   136    136
     15:30:00  XA REENT   3788  2529   2529     876     65      65
               REENT      1364   404    404      11      7       7
               PROGRAM     500   168    168      32      1       1
     15:40:00  XA REENT   3788  3771   3784    2679    106      63     43
               REENT      1364   406    406       2      2       2
               PROGRAM     500   168    168
     15:50:00  XA REENT   3788  3774   3784     305     22       3     19
               REENT      1364   406    406
               PROGRAM     500   168    168
     16:00:00  XA REENT   3788  3774   3784      34      2               2
               REENT      1364   406    406
               PROGRAM     500   168    168
     16:10:00  XA REENT   3788  3774   3784
               REENT      1364   406    406
               PROGRAM     500   168    168
     16:20:00  XA REENT   3788  3776   3784       2      1       1
               REENT      1364   406    406
               PROGRAM     500   168    168
     16:30:00  XA REENT   3788  3781   3784      42     10       4      6
               REENT      1364   406    406
               PROGRAM     500   168    168
     16:40:00  XA REENT   3788  3784   3784       5      3       2      1
               REENT      1364   406    406
               PROGRAM     500   168    168
     16:50:00  XA REENT   3788  3785   3785      36     11       2      9
               REENT      1364   406    406
               PROGRAM     500   168    168
```

PMIRPT17 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Pool Type	Type of program pool
Pool Size	Size of the program pool, specified in kilobytes
In Use	Amount of the program pool in use at the end of the interval, specified in kilobytes

Field	Description
High Water	Highest amount of the program pool in use at any point in time during the interval, specified in kilobytes
Space Loaded	Amount of program pool space loaded from disk during the interval
Pgm Pool Loads	Count of programs loaded into the pool during the interval
Into Unalloc Space	Count of loads into unallocated space
Ovrlay Unused Pgm	Count of loads overlaying a program not currently in use
Ovrlay Pgm In Use	Count of loads overlaying a program currently in use
Pool Waits	Number of times an active task had to wait for space in a pool
Load Waits	Number of times the system had to wait to load a program once storage was available in the pool; usually caused by I/O to the load library or load area
Pgmload Wait Time	Time spent waiting to load programs
Average Load Wait Time	Average amount of time spent waiting to load programs

PMIRPT18: Storage pool summary report

PMIRPT18 contains information about storage pool activity for each reported interval. The report shows one line of information for each storage pool accessed during each interval.

Sample report

```
REPORT NO. 18                                          CA, INC.                                    mm/dd/yy PAGE     1
CA IDMS/PM nn.n     volser                      STORAGE POOL SUMMARY REPORT
DC SYSTEM VERSION #:    56            <------------- YOUR COMPANY NAME ------------->             DATA FROM: mm/dd/yy


                              POOL     IN     HIGH      STG                                  STG        STG       STG
     START        POOL        SIZE     USE    WATER    CUSHION    TIMES   STORAGE    STORAGE     PASS       PASS      PASS
      TIME       NUMBER       (K)      (K)     (K)       (K)       SOS     GETS       FREES       1          2         3
    14:58:16         0        1016     112     116       100                 325        260       219        106
                   128        1500     296     368       100                 351        284       246        105
                   255        1500     500     504         0                 256        138       204         52
    15:00:00         0        1016     112     116       100                 121        119                  121
                   128        1500     304     368       100                   7          4         4          3
                   255        1500     500     504         0                 135        130       131          4
    15:10:00         0        1016     112     116       100                 151        150         5        146
                   128        1500     304     452       100                 114        112        72         42
                   255        1500     500     504         0                 157        156       133         24
    15:20:00         0        1016     112     116       100                 120        120                  120
                   128        1500     304     452       100
                   255        1500     500     504         0                 132        132       131          1
    15:30:00         0        1016     112     116       100                 378        319       151        227
                   128        1500     316     452       100                2403       2382      1355       1048
                   255        1500     516     528         0                1892       1884       522       1370
    15:40:00         0        1016     116     116       100                 521        459       182        339
                   128        1500     396     452       100                2927       2781      1918       1009
                   255        1500     552     552         0                1690       1670       492       1198
    15:50:00         0        1016     116     156       100                 234        223        60        174
                   128        1500     308     452       100                 668        586       452        216
                   255        1500     552     572         0                 411        411       174        237
    16:00:00         0        1016     152     156       100                 134        122        10        124
                   128        1500     344     452       100                  14         11         8          6
                   255        1500     596     596         0                 155        148       137         18
    16:10:00         0        1016     152     156       100                 242        230       109        133
                   128        1500     348     452       100                 189        187       122         67
                   255        1500     632     636         0                 301        300       157        144
    16:20:00         0        1016     164     200       100                 186        184        78        108
                   128        1500     360     452       100                 180        169       105         75
                   255        1500     632     636         0                 279        277       141        138
    16:30:00         0        1016     128     200       100                 172        173       120         52
                   128        1500     380     456       100                 564        525       232        332
                   255        1500     556     636         0                 382        393       107        275
    16:40:00         0        1016     128     200       100                 265        267       101        164
                   128        1500     372     588       100                 628        611       256        372
                   255        1500     560     636         0                 242        244       155         87
```

PMIRPT18 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Pool Number	Number that identifies the storage pool, as assigned at system generation
Pool Size	Size of the storage pool, specified in kilobytes
In Use	Amount of the storage pool in use at the end of the interval, specified in kilobytes
High Water	The most storage used in that pool during the interval, specified in kilobytes

Field	Description
Storage Cushion	Size of the storage cushion, specified in kilobytes
Times SOS	Number of times the short-on-storage condition occurred during the interval
Storage Gets	Count of get-storage (#GETSTG) requests issued against the pool during the interval
Storage Frees	Count of free-storage (#FREESTG) requests issued against the pool during the interval
Stg Pass 1	Number of times the space requested by a #GETSTG command was allocated using Scan 1
Stg Pass 2	Number of times the space requested by a #GETSTG command was allocated using Scan 2
Stg Pass 3	This field is no longer used

PMIRPT19: Storage waits summary report

PMIRPT19 contains information about storage type waits for each reported interval. The report shows 1 column of information for each storage type for each interval.

Sample report

```
REPORT NO. 19                                          CA, INC.                                 mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                     STORAGE WAITS SUMMARY REPORT
DC SYSTEM VERSION #:    56          <------------- YOUR COMPANY NAME ------------->          DATA FROM: mm/dd/yy

START
 TIME  SHRD    SHRD   AVG  SHRD   SKEPT   AVG  USER   USER   AVG  USER   UKEPT   AVG  OTHER  OTHER   AVG
 ----   STG    WAIT  SHRD  KEPT   WAIT  SKEPT   STG   WAIT  USER  KEPT   WAIT  UKEPT   STG   WAIT  OTHER
STGLOC WAITS   TIME  TIME  WAITS  TIME   TIME  WAITS  TIME  TIME  WAITS  TIME   TIME  WAITS  TIME   TIME

 14:58:16
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 15:00:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 15:10:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 15:20:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 15:30:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 15:40:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 15:50:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 16:00:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 16:10:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 16:20:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 16:30:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
 16:40:00
NON-XA    0                 0                  0                  0                  0
XA        0                 0                  0                  0                  0
```

PMIRPT19 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Stgloc	Whether the storage resides above the line (XA) or below the line (NON-XA); there should be very few waits for XA storage
Shrd Stg Waits	Number of waits to acquire shared storage during the interval
Shrd Wait Time	Amount of time spent waiting to acquire shared storage during the interval (*ss.ttt*).
Avg Shrd Time	Average length of a wait to acquire shared storage during the interval (*ss.tttt*).

Field	Description
Shrd Kept Waits	Number of waits to acquire shared kept storage during the interval
Skept Wait Time	Amount of time spent waiting to acquire shared kept storage during the interval (*ss.ttt*).
Avg Skept Time	Average length of a wait to acquire shared kept storage during the interval (*ss.tttt*).
User Stg Waits	Number of waits to acquire user storage during the interval
User Wait Time	Amount of time spent waiting to acquire user storage during the interval (*ss.ttt*).
Avg User Time	Average length of a wait to acquire user storage during the interval (*ss.tttt*).
User Kept Waits	Number of waits to acquire user kept storage during the interval
Ukept Wait Time	Amount of time spent waiting to acquire user kept storage during the interval (*ss.ttt*).
Avg Ukept Time	Average length of a wait to acquire user kept storage during the interval (*ss.tttt*).
Other Stg Waits	Number of waits to acquire terminal, database, or system storage
Other Wait Time	Amount of time spent waiting to acquire terminal, database, or system storage during the interval (*ss.ttt*).
Avg Other Time	Average length of a wait to acquire terminal, database, or system storage during the interval (*ss.tttt*).

PMIRPT21: I/O by area detail report

PMIRPT21 contains detailed information about an area's input/output during a specific interval.

Sample report

```
REPORT NO. 21                                          CA, INC.                                                mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                          I/O BY AREA DETAIL REPORT
DC SYSTEM VERSION #:    56           <-------------- YOUR COMPANY NAME -------------->             DATA FROM: mm/dd/yy


         INTERVAL    START TIME:16:20:00   END TIME: 16:30:00
         AREA NAME: CA30NWK.DDLDML              FILE NAME: CA30NWK.CA30DML2             BUFFER NAME: DEFAULT-BUFFER
                  AREA ACCESS WAITS    14736    AREA ACCESSES                PHYSICAL WRITES
          14628   PHYSICAL READS         108    BUFFER HITS
         --READ I/O WAITS--                                          --WRITE I/O WAITS--
          14627   TOT WAITS                                                 TOT WAITS
            345.000 TOT WAIT TIME         .0236   AVG WAIT TIME               TOT WAIT TIME                AVG WAIT TIME
                  HIGHEST WAIT TIME                                         HIGHEST WAIT TIME
         --DB BUFFER WAITS--                                         --SHARED BUFFER WAITS--
                  TOT WAITS                                                 TOT WAITS
                  TOT WAIT TIME                AVG WAIT TIME                TOT WAIT TIME                AVG WAIT TIME
                  HIGHEST WAIT TIME                                         HIGHEST WAIT TIME
         --EXCLUSIVE BUFFER WAITS-                                   --DBKEY WAITS--
                  TOT WAITS                                                 TOT WAITS
                  TOT WAIT TIME                AVG WAIT TIME                TOT WAIT TIME                AVG WAIT TIME
                  HIGHEST WAIT TIME                                         HIGHEST WAIT TIME
         INTERVAL    START TIME:16:20:00   END TIME: 16:30:00
         AREA NAME: CFAXNWK.DDLDCLOD            FILE NAME: CFAXNWK.CFALOD               BUFFER NAME: DCLOD-BUFFER
                  AREA ACCESS WAITS      793    AREA ACCESSES                PHYSICAL WRITES
            777   PHYSICAL READS          16    BUFFER HITS
         --READ I/O WAITS--                                          --WRITE I/O WAITS--
            777   TOT WAITS                                                 TOT WAITS
            33.000 TOT WAIT TIME          .0425   AVG WAIT TIME               TOT WAIT TIME                AVG WAIT TIME
                  HIGHEST WAIT TIME                                         HIGHEST WAIT TIME
         --DB BUFFER WAITS--                                         --SHARED BUFFER WAITS--
                  TOT WAITS                                                 TOT WAITS
                  TOT WAIT TIME                AVG WAIT TIME                TOT WAIT TIME                AVG WAIT TIME
                  HIGHEST WAIT TIME                                         HIGHEST WAIT TIME
         --EXCLUSIVE BUFFER WAITS-                                   --DBKEY WAITS--
                  TOT WAITS                                                 TOT WAITS
                  TOT WAIT TIME                AVG WAIT TIME                TOT WAIT TIME                AVG WAIT TIME
                  HIGHEST WAIT TIME                                         HIGHEST WAIT TIME
```

PMIRPT21 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
Area Name	Name of the area
File Name	Name of a file to which area maps
Buffer Name	Name of area's associated buffer
Area Access Waits	Number of times task waited to ready an area in a required usage mode
Area Accesses	Number of times task readied an area
Physical Writes	Number of physical writes for the area
Physical Reads	Number of physical reads for the area

Field	Description
Buffer Hits	Number of database area requests that could be processed in the buffer without a physical I/O
Read I/O Waits	Number of physical read I/Os that resulted in a wait and the total, highest, and average wait times
Write I/O Waits	Number of physical write I/Os that resulted in a wait and the total, highest, and average wait times
DB Buffer Waits	Number of times a page within the area had to wait for a buffer page to become available and the total, highest, and average wait times
Shared Buffer Waits	Number of times transactions wanted to access a database page that was exclusively held by another transaction and the total, highest, and average wait times
Exclusive Buffer Waits	Number of times transactions waited for exclusive access to a database page and the total, highest, and average wait times
DBkey Waits	Number of waits for a db-key and the total, highest, and average wait times

PMIRPT22: I/O by file detail report

PMIRPT22 contains detailed information about a file's input/output during a specific interval.

Sample report

```
REPORT NO. 22                                        CA, INC.                                        mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                          I/O BY FILE DETAIL REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


         INTERVAL    START TIME:16:20:00   END TIME: 16:30:00
         FILE NAME: CA30NWK.CA30DML1                    BUFFER:   DEFAULT-BUFFER
         --READ I/O WAITS--                                       --WRITE I/O WAITS--
           7355    TOT WAITS                                              TOT WAITS
           173.000 TOT WAIT TIME         .0235   AVG WAIT TIME            TOT WAIT TIME              AVG WAIT TIME
                   HIGHEST WAIT TIME                                      HIGHEST WAIT TIME
         --DB BUFFER WAITS--                                      --SHARED BUFFER WAITS--
                   TOT WAITS                                              TOT WAITS
                   TOT WAIT TIME               AVG WAIT TIME              TOT WAIT TIME              AVG WAIT TIME
                   HIGHEST WAIT TIME                                      HIGHEST WAIT TIME
         --EXCLUSIVE BUFFER WAITS-                                --DBKEY WAITS--
                   TOT WAITS                                              TOT WAITS
                   TOT WAIT TIME               AVG WAIT TIME              TOT WAIT TIME              AVG WAIT TIME
                   HIGHEST WAIT TIME                                      HIGHEST WAIT TIME
         INTERVAL    START TIME:16:20:00   END TIME: 16:30:00
         FILE NAME: CA30NWK.CA30DML2                    BUFFER:   DEFAULT-BUFFER
         --READ I/O WAITS--                                       --WRITE I/O WAITS--
           7272    TOT WAITS                                              TOT WAITS
           172.000 TOT WAIT TIME         .0237   AVG WAIT TIME            TOT WAIT TIME              AVG WAIT TIME
                   HIGHEST WAIT TIME                                      HIGHEST WAIT TIME
         --DB BUFFER WAITS--                                      --SHARED BUFFER WAITS--
                   TOT WAITS                                              TOT WAITS
                   TOT WAIT TIME               AVG WAIT TIME              TOT WAIT TIME              AVG WAIT TIME
                   HIGHEST WAIT TIME                                      HIGHEST WAIT TIME
         --EXCLUSIVE BUFFER WAITS-                                --DBKEY WAITS--
                   TOT WAITS                                              TOT WAITS
                   TOT WAIT TIME               AVG WAIT TIME              TOT WAIT TIME              AVG WAIT TIME
                   HIGHEST WAIT TIME                                      HIGHEST WAIT TIME
```

PMIRPT22 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
File Name	Name of the file
Buffer	Name of buffer associated with file
Read I/O Waits	Number of physical read I/Os that resulted in a wait and the total, highest, and average wait times
Write I/O Waits	Number of physical write I/Os that resulted in a wait and the total, highest, and average wait times
DB Buffer Waits	Number of times a page within the area had to wait for a buffer page to become available and the total, highest, and average wait times
Shared Buffer Waits	Number of times transactions wanted to access a database page that was exclusively held by another transaction and the total, highest, and average wait times

Field	Description
Exclusive Buffer Waits	Number of times transactions waited for exclusive access to a database page and the total, highest, and average wait times
DBkey Waits	Number of waits for a db-key and the total, highest, and average wait times

PMIRPT23: Buffer detail report

PMIRPT23 contains detailed information about a buffer's input/output during a specific interval.

Sample report

```
REPORT NO. 23                                          CA, INC.                                                mm/dd/yy PAGE     7
CA IDMS/PM nn.n    volser                          BUFFER DETAIL REPORT
DC SYSTEM VERSION #:    56           <-------------- YOUR COMPANY NAME -------------->             DATA FROM: mm/dd/yy

         INTERVAL    START TIME:15:00:00   END TIME: 15:10:00
         BUFFER NAME:DCDML-BUFFER                    BUFFER PAGE SIZE:             BUFFER PAGE DEFINED: 76
                  BUFFER READS        655360    BUFFER WRITES            5    BUFFER PGS IN USE             BUFFER FLUSHES
              5   BUFFER REQUESTS               PAGES FND IN POOL       .0    PGS FND RATIO (%)
         --READ I/O WAITS--                                          --WRITE I/O WAITS--
         756608   TOT WAITS                                                  TOT WAITS
            39.000 TOT WAIT TIME                AVG WAIT TIME       26693.000 TOT WAIT TIME                 AVG WAIT TIME
                  HIGHEST WAIT TIME                                     26.000 HIGHEST WAIT TIME

         --DB BUFFER WAITS--                                         --SHARED BUFFER WAITS--
                  TOT WAITS                                                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                                          HIGHEST WAIT TIME
         --EXCLUSIVE BUFFER WAITS-
                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME
         INTERVAL    START TIME:15:00:00   END TIME: 15:10:00
         BUFFER NAME:DCLOD-BUFFER                    BUFFER PAGE SIZE:             BUFFER PAGE DEFINED: 76
                  BUFFER READS                BUFFER WRITES           10    BUFFER PGS IN USE             BUFFER FLUSHES
             10   BUFFER REQUESTS               PAGES FND IN POOL       .0    PGS FND RATIO (%)
         --READ I/O WAITS--                                          --WRITE I/O WAITS--
                  TOT WAITS                                                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                                          HIGHEST WAIT TIME
         --DB BUFFER WAITS--                                         --SHARED BUFFER WAITS--
                  TOT WAITS                                                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                                          HIGHEST WAIT TIME
         --EXCLUSIVE BUFFER WAITS-
                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME
```

PMIRPT23 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
Buffer Name	Name of buffer
Buffer Page Size	Size of buffer pages
Buffer Page Defined	Number of pages defined for buffer
Buffer Reads	Number of times DBMS requested a new database page for which a physical I/O occurred
Buffer Writes	Number of times a buffer page was discarded in order to read another page
Buffer Pgs In Use	Number of pages currently in use in the buffer
Buffer Flushes	Number of times a page was discarded from the buffer in order to read another page
Buffer Requests	Total number of buffer requests (the sum of Pages Fnd in Pool and Buffer Reads)
Pages Fnd In Pool	Number of database area requests that could be processed in the buffer without a physical I/O
Pages Fnd Ratio (%)	Percent of Pages Fnd in Pool to Buffer Requests; this ratio should be as close to 100 as possible
Read I/O Waits	Number of physical read I/Os that resulted in a wait and the total, highest, and average wait times
Write I/O Waits	Number of physical write I/Os that resulted in a wait and the total, highest, and average wait times
DB Buffer Waits	Number of times a page within the area had to wait for a buffer page to become available and the total, highest, and average wait times
Shared Buffer Waits	Number of times transactions wanted to access a database page that was exclusively held by another transaction and the total, highest, and average wait times
Exclusive Buffer Waits	Number of times transactions waited for exclusive access to a database page and the total, highest, and average wait times

PMIRPT24: CDMSLIB detail report

PMIRPT24 contains detailed information about program load waits for a CDMSLIB during a specific interval.

Sample report

```
REPORT NO. 24                                          CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                          CDMSLIB DETAIL REPORT
DC SYSTEM VERSION #:    56           <-------------- YOUR COMPANY NAME ------------->            DATA FROM: mm/dd/yy


         INTERVAL    START TIME:14:58:16   END TIME: 15:00:00
         CDMSLIB NAME: CDMSLIB
         --PGM LOAD WAITS--
             27    TOT WAITS
             1.128 TOT WAIT TIME         .0418   AVG WAIT TIME
              .145 HIGHEST WAIT TIME
         INTERVAL    START TIME:15:00:00   END TIME: 15:10:00
         CDMSLIB NAME: CDMSLIB
         --PGM LOAD WAITS--
              1    TOT WAITS
              .100 TOT WAIT TIME         .1001   AVG WAIT TIME
              .100 HIGHEST WAIT TIME
         INTERVAL    START TIME:15:10:00   END TIME: 15:20:00
         CDMSLIB NAME: CDMSLIB
         --PGM LOAD WAITS--
             14    TOT WAITS
              .618 TOT WAIT TIME         .0441   AVG WAIT TIME
              .088 HIGHEST WAIT TIME
         INTERVAL    START TIME:15:20:00   END TIME: 15:30:00
         CDMSLIB NAME: CDMSLIB
         --PGM LOAD WAITS--
                   TOT WAITS
                   TOT WAIT TIME                 AVG WAIT TIME
                   HIGHEST WAIT TIME
```

PMIRPT24 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
CDMSLIB Name	Name of the CDMSLIB library
Pgm Load Waits	Number of program load waits and the total, highest, and average wait time

PMIRPT25: Journal detail report

PMIRPT25 contains detailed information about journal waits for each reported interval.

Sample report

```
REPORT NO. 25                                        CA, INC.                                        mm/dd/yy PAGE    3
CA IDMS/PM nn.n     volser                      JOURNAL DETAIL REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


        INTERVAL   START TIME: 15:00:00   END TIME: 15:10:00
        JOURNAL NAME: J1JRNL                  FILE:
                  JRNL PGSIZE
         87500753 BEGIN RBN                                    73741824 BLKS WRITTEN
        640298176-END RBN                                              BYTES WRITTEN
        --BUFFER WAITS--                                      --READ WAITS--
                  TOT WAITS                                            TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME            TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                        20893.000 HIGHEST WAIT TIME
        --JBEE WAITS--                                        --WRITE WAITS--
                  TOT WAITS                                            TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME            TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                                    HIGHEST WAIT TIME
        --JBC WAITS--
                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME
        INTERVAL   START TIME: 15:00:00   END TIME: 15:10:00
        JOURNAL NAME: J2JRNL                  FILE:
                  JRNL PGSIZE
         87501009 BEGIN RBN                                    73741824 BLKS WRITTEN
        640298176-END RBN                                              BYTES WRITTEN
        --BUFFER WAITS--                                      --READ WAITS--
                  TOT WAITS                                            TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME            TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                        20893.000 HIGHEST WAIT TIME
        --JBEE WAITS--                                        --WRITE WAITS--
                  TOT WAITS                                            TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME            TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME                                    HIGHEST WAIT TIME
        --JBC WAITS--
                  TOT WAITS
                  TOT WAIT TIME               AVG WAIT TIME
                  HIGHEST WAIT TIME
```

PMIRPT25 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
Journal Name	Name of journal, as defined in the DMCL
File	Name of external file associated with the journal in the DMCL
Jrnl Pgsize	Page size defined for the journal
Begin RBN	Relative block number of the first block written to the journal during the interval
End RBN	Relative block number of the last block written to the journal during the interval
Blks Written	Number of blocks written to the journal

Field	Description
Bytes Written	Number of bytes written to the journal
Buffer Waits	Number of waits for the buffer (that is, buffer was requested but not available) and the total, highest, and average wait time
Read Waits	Number of physical read (rollback) I/Os against the journal that resulted in a wait and the total, highest, and average wait time
JBEE Waits	Number of waits for a journal buffer element ECB (JBEE) and the total, highest, and average wait time
Write Waits	Number of physical write I/Os against the journal that resulted in a wait and the total, highest, and average wait time
JBC Waits	Number of waits for a journal buffer control block and the total, highest, and average wait time

PMIRPT27: Program pool detail report

PMIRPT27 contains information about journal waits for each reported interval.

Sample report

```
REPORT NO. 27                                        CA, INC.                                                mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        PROGRAM POOL DETAIL REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->            DATA FROM: mm/dd/yy


        INTERVAL    START TIME:15:00:00   END TIME: 15:10:00
        POOL TYPE: XA REENTRANT
          3788    POOL SIZE (K)         1583    IN USE (K)            1583    HIGH WATER (K)          21    SPACE LOADED (K)
             1    PGM POOL LOADS           1    INTO UNALLOC SPACE            OVERLAY UNUSED PGM            OVERLAY PGM IN USE
        --PGM LOAD WAITS--                                          -POOL SPACE WAITS-
                 TOT WAITS                                                  TOT WAITS
                 TOT WAIT TIME                 AVG WAIT TIME                TOT WAIT TIME                 AVG WAIT TIME
                 HIGHEST WAIT TIME                                          HIGHEST WAIT TIME
        INTERVAL    START TIME:15:00:00   END TIME: 15:10:00
        POOL TYPE: REENTRANT
          1364    POOL SIZE (K)          394    IN USE (K)             394    HIGH WATER (K)                SPACE LOADED (K)
                  PGM POOL LOADS                INTO UNALLOC SPACE           OVERLAY UNUSED PGM            OVERLAY PGM IN USE
        --PGM LOAD WAITS--                                          -POOL SPACE WAITS-
                 TOT WAITS                                                  TOT WAITS
                 TOT WAIT TIME                 AVG WAIT TIME                TOT WAIT TIME                 AVG WAIT TIME
                 HIGHEST WAIT TIME                                          HIGHEST WAIT TIME
        INTERVAL    START TIME:15:00:00   END TIME: 15:10:00
        POOL TYPE: PROGRAM
           500    POOL SIZE (K)          136    IN USE (K)             136    HIGH WATER (K)                SPACE LOADED (K)
                  PGM POOL LOADS                INTO UNALLOC SPACE           OVERLAY UNUSED PGM            OVERLAY PGM IN USE
        --PGM LOAD WAITS--                                          -POOL SPACE WAITS-
                 TOT WAITS                                                  TOT WAITS
                 TOT WAIT TIME                 AVG WAIT TIME                TOT WAIT TIME                 AVG WAIT TIME
                 HIGHEST WAIT TIME                                          HIGHEST WAIT TIME
```

PMIRPT27 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
Pool Type	Type of pool: program, XA program, reentrant and XA reentrant
Pool Size	Size of pool, in kilobytes
In Use	Kilobytes of storage occupied by programs at end of interval
High Water	Highest amount of storage used by programs since startup
Space Loaded	Kilobytes of storage used to load programs during the interval
Pgm Pool Loads	Number of programs loaded into the pool during the interval
Into Unalloc Space	Number of programs loaded into the pool during the interval without having to overlay other programs
Overlay Unused Pgm	Number of programs loaded into the pool during the interval that overlayed inactive programs
Overlay Pgm In Use	Number of programs loaded into the pool during the interval that overlayed active programs (this indicates a problem with either pool size or applications using the pool)
Pgm Load Waits	Total waits, total wait time, average wait time, and highest wait time for program load waits during the interval (averages should be as low as possible)
Pool Space Waits	Total waits, total wait time, average wait time, and highest wait time of an active task for an appropriate pool to become available during the interval (anything other than low numbers indicates a problem: expand the pool size or define heavily used programs as reentrant)

PMIRPT29: Storage type detail report

PMIRPT29 contains information about waits for specific storage types for each reported interval.

Sample report

```
REPORT NO. 29                                          CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                          STORAGE TYPE DETAIL REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy


        INTERVAL    START TIME:14:58:16   END TIME: 15:00:00
        STORAGE TYPE NON-XA
        --  SHARED STG WAITS   --                                --SHARED KEPT STG WAITS--
                 TOT WAITS                                             TOT WAITS
                 TOT WAIT TIME                AVG WAIT TIME            TOT WAIT TIME                AVG WAIT TIME
                 HIGHEST WAIT TIME                                     HIGHEST WAIT TIME
        -- USER STORAGE WAITS  --                                -- USER KEPT STG WAITS --
                 TOT WAITS                                             TOT WAITS
                 TOT WAIT TIME                AVG WAIT TIME            TOT WAIT TIME                AVG WAIT TIME
                 HIGHEST WAIT TIME                                     HIGHEST WAIT TIME
        -- TERMINAL STG WAITS  --                                -- DATABASE STG WAITS  --
                 TOT WAITS                                             TOT WAITS
                 TOT WAIT TIME                AVG WAIT TIME            TOT WAIT TIME                AVG WAIT TIME
                 HIGHEST WAIT TIME                                     HIGHEST WAIT TIME
        -- SYSTEM STORAGE WAITS--
                 TOT WAITS
                 TOT WAIT TIME                AVG WAIT TIME
                 HIGHEST WAIT TIME
        INTERVAL    START TIME:14:58:16   END TIME: 15:00:00
        STORAGE TYPE XA
        --  SHARED STG WAITS   --                                --SHARED KEPT STG WAITS--
                 TOT WAITS                                             TOT WAITS
                 TOT WAIT TIME                AVG WAIT TIME            TOT WAIT TIME                AVG WAIT TIME
                 HIGHEST WAIT TIME                                     HIGHEST WAIT TIME
        -- USER STORAGE WAITS  --                                -- USER KEPT STG WAITS --
                 TOT WAITS                                             TOT WAITS
                 TOT WAIT TIME                AVG WAIT TIME            TOT WAIT TIME                AVG WAIT TIME
                 HIGHEST WAIT TIME                                     HIGHEST WAIT TIME
```

PMIRPT29 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)
Storage Type	Indicates whether the storage is XA storage (above the 16-megabyte line (z/OS only)) or non-XA storage (below the 16-megabyte line)
Shared Stg Waits	Total waits, total wait time, average wait time, and highest wait time for shared storage (high average wait times can indicate a problem)
Shared Kept Stg Waits	Total waits, total wait time, average wait time, and highest wait time for shared kept storage (high average wait times can indicate a problem)
User Storage Waits	Total waits, total wait time, average wait time, and highest wait time for user storage (high average wait times can indicate a problem)

Field	Description
User Kept Stg Waits	Total waits, total wait time, average wait time, and highest wait time for user kept storage (high average wait times can indicate a problem)
Terminal Stg Waits	Total waits, total wait time, average wait time, and highest wait time for terminal storage (user tasks cannot explicitly access terminal storage)
Database Stg Waits	Total waits, total wait time, average wait time, and highest wait time for database storage (user tasks cannot explicitly access database storage)
System Storage Waits	Total waits, total wait time, average wait time, and highest wait time for system storage (user tasks cannot explicitly access system storage)

PMIRPT30: Interval statistics summary report

PMIRPT30 contains DC/UCF statistics for each reported interval.

Sample report

```
REPORT NO. 30                                         CA, INC.                                 mm/dd/yy PAGE     1
CA IDMS/PM nn.n    volser                    INTERVAL STATISTICS SUMMARY REPORT
DC SYSTEM VERSION #:    56            <------------- YOUR COMPANY NAME ------------->           DATA FROM:  mm/dd/yy


          TASKS  TASKS  TASKS  TASKS  TASK   TASK  TIMES   SYSTEM    USER     PGMS    PGMS   GET   FREE     DC      DB
   START    AT     AT   STARTD ENDED ABENDS STALLS  MAX     MODE     MODE    CALLED LOADED  STG   STG    SRVCE   SRVCE
    TIME  START   END                               TASK     CPU      CPU                   RQSTS RQSTS  RQSTS   RQSTS

  14:58:16     0     20     38     18                       1.1863               110     146    932   682    233     637
  15:00:00    20     21      1                                                     1       1    263   253    838       6
  15:10:00    21     21     16     16                        .2044                75      13    422   418   1015      77
  15:20:00    21     21                                                                         252   252    840
  15:30:00    21     20     74     75                       2.4261              1619      73   4673  4585  20576    9145
  15:40:00    20     22    166    164                       2.8533              2917     108   5138  4910  16355   14696
  15:50:00    22     21     31     32     2                 5.7315               335      22   1313  1220   7716    6642
  16:00:00    21     22      2      1                        .0177                23       2    303   281   2639    1326
  16:10:00    22     22     22     22     1                11.9189               182            732   717  13959   11009
  16:20:00    22     21     17     18                       2.4330               163       1    645   630  15592   13681
  16:30:00    21     22     49     48     1                14.2816               310      10   1118  1091   5026    4635
  16:40:00    22     20     87     89                        .4032               550       3   1135  1122   1585     501
  16:50:00    20     20     53     53                        .2606               328      11    742   753   1098     304
```

PMIRPT30 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Tasks at Start	Number of tasks active at the beginning of the interval

Field	Description
Tasks at End	Number of tasks active at the end of the interval
Tasks Startd	Number of tasks that started during the interval
Tasks Ended	Number of tasks that ended during the interval
Task Abends	Number of tasks that ended abnormally during the interval
Task Stalls	Number of tasks that timed out during the interval
Times Max Task	The number of times during the interval that a maximum tasks condition existed
System Mode CPU	Amount of time during the interval that the DC/UCF system spent performing system services on behalf of tasks. The value is reported as seconds.
User Mode CPU	Amount of time during the interval that user tasks spent in execution. The value is reported as seconds.
Pgms Called	Number of programs called by tasks during the interval; includes: ■ LINKs ■ XCTLs ■ Programs called by the DC/UCF system on behalf of the task
Pgms Loaded	Number of programs called during the interval that were not present in the program pool and that needed to be loaded
Get Stg Rqsts	Number of GET STORAGE (#GETSTG) requests issued during the interval
Free Stg Rqsts	Number of FREE STORAGE (#FREESTG) requests issued during the interval
DC Srvce Rqsts	Number of requests for DC/UCF services issued during the interval
DB Srvce Rqsts	Number of requests for database services issued during the interval

PMIRPT32: Run unit statistics summary report

PMIRPT32 contains database statistics for each reported interval. The report shows one column of information for each interval.

Sample report

REPORT NO. 32   CA, INC.   mm/dd/yy PAGE 1
CA IDMS/PM nn.n volser   RUNUNIT STATISTICS SUMMARY REPORT
DC SYSTEM VERSION #: 56   <------------- YOUR COMPANY NAME ------------->   DATA FROM: mm/dd/yy

START TIME	R/U AT STRT	R/U AT END	NUM R/U STRTD	NUM R/U ENDED NORMAL	NUM DBMS CALLS	RECS RQSTD	RECS CURR OF R/U	PAGES RQSTD	PAGES READ	PAGES WRITTEN	CALC RECS NO OFLOW	CALC RECS WITH OFLOW	VIA RECS NO OFLOW	VIA RECS WITH OFLOW	FRAGS STORED
14:58:16	0	11	43	32	727	571	202	2312	2078						
15:00:00	11	11			7	13	2	10	4						
15:10:00	11	11			102	49	7	42	6						
15:20:00	11	11													
15:30:00	11	11	750	750	10078	5749	2771	4104	756						
15:40:00	11	12	466	465	14805	11163	6462	8131	1379	26	13		39		
15:50:00	12	11	75	73	7499	7333	6141	10931	8331	22	10		30		
16:00:00	11	12	4	3	38	6		6							
16:10:00	12	12	39	37	11860	15916	11393	12269	12056						
16:20:00	12	12	47	47	2308	3067	1852	1997	1916						
16:30:00	12	11	99	99	16710	19701	15749	19559	19237						
16:40:00	11	11	24	24	665	170	8	159	15	1	1		4		
16:50:00	11	11			403	145	11	124	23						

PMIRPT32 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
R/U At Strt	Number of run units active at the start of the interval
R/U At End	Number of run units active at the end of the interval
Num R/U Strtd	Number of run units started during the interval
Num R/U Ended Normal	Number of run units ended during the interval
Num DBMS Calls	Number of times DBMS was called
Recs Rqstd	Number of records retrieved from the database as a result of run unit processing requests
Recs Curr of R/U	Number of records that became current of the run unit during the interval as the result of FIND, STORE, or OBTAIN requests
Pages Rqstd	Number of pages requested by the DBMS (difference of Pages Rqstd and Pages Read in the number of pages found in the buffer)
Pages Read	Number of pages physically read on behalf of run units during the interval

Field	Description
Pages Written	Number of physical writes that occurred while this run unit was in control; because IDMSDBIO writes pages as they are placed in the buffer, physical writes can occur for a program READYed in retrieval mode
CALC Recs No Oflow	Number of new records stored during the interval that fit on the target page using the CALC location method
CALC Recs With Oflow	Number of new records stored during the interval using the CALC location method that were placed on a page other than the target page
VIA Recs No Oflow	Number of new records stored during the interval that fit on the target page when using the VIA location method
VIA Recs With Oflow	Number of new records stored during the interval using the VIA location method that were placed on a page other than the target page
Frags Stored	Number of record fragments that were stored during the interval

PMIRPT38: Journal block full detail report

PMIRPT38 contains detailed information about the number of journal blocks written for a report interval.

Sample report

```
REPORT NO. 38                                    CA, INC.                                    mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                  JOURNAL BLOCK FULL DETAIL REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME ------------->          DATA FROM:  mm/dd/yy


                                    0-10     11-20    21-30    31-40    40-50    50-60    60-70    70-80    80-90   90-100    TOTAL
   START                             PCT      PCT      PCT      PCT      PCT      PCT      PCT      PCT      PCT      PCT     BLKS
    TIME                            FULL     FULL     FULL     FULL     FULL     FULL     FULL     FULL     FULL     FULL    WRITN

  14:58:16  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  15:00:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  15:10:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  15:20:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  15:30:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  15:40:00  BLKS WRITTEN             0       27        0       12        0        2        0        0        0       13       54
            PCT OF TOTAL                    50.0              22.2              3.7                                 24.1      100
             CUMULATIVE                     50.0     50.0     72.2     72.2     75.9     75.9     75.9     75.9    100.0      100
  15:50:00  BLKS WRITTEN             0       23        0        9        0        2        0        0        0       10       44
            PCT OF TOTAL                    52.3              20.5              4.5                                 22.7      100
             CUMULATIVE                     52.3     52.3     72.7     72.7     77.3     77.3     77.3     77.3    100.0      100
  16:00:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  16:10:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
             CUMULATIVE
  16:20:00  BLKS WRITTEN             0        0        0        0        0        0        0        0        0        0        0
            PCT OF TOTAL
```

PMIRPT38 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
Blks Written	Number of journal blocks that were written from the buffer during the interval; each column indicates the number of blocks that were 0-10% full, 11-20% full, and so on
Pct of Total	Percent of the total number of blocks written that were 0-10% full, 11-20% full, and so on
Cumulative	Cumulative percentage of blocks written in order of percent full; for example, 60.3% of the journal blocks written were 30% full or less
Total Blks Writn	Total number of journal blocks written for the interval

PMIRPT40: Data sharing SYSPLEX detail report

PMIRPT40 contains detailed information about the use of SYSPLEX resources when exploiting data sharing.

Sample report

```
REPORT NO. 40                                          CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        DATA SHARING SYSPLEX DETAIL REPORT
DC SYSTEM VERSION #:    74          <-------------- YOUR COMPANY NAME ------------->            DATA FROM: mm/dd/yy


         INTERVAL    START TIME: 8:48:11   END TIME:  8:50:00
         XES Lock statistics for  CAIDMSDBDCGRP1LK

            Resource Type      --Obtains--    --Alters---    -Releases--    ---Waits---    Cumulative    Average
            LmgrResource                 0              0              0              0       .0000        .0000
            Phys.Page Lk                 0              0              0              0       .0000        .0000
            GlobalDeadLk                 0              0              0              0       .0000        .0000
            LmgrProxy Lk                 0              0              0              0       .0000        .0000
            EnqDeq. Lock                 0              0              0              0       .0000        .0000
            AreaList  Lk                 3              0              3              0       .0000        .0000
            FileList  Lk                12              0             12              0       .0000        .0000
            Global Queue                 0              0              0              0       .0000        .0000


         INTERVAL    START TIME: 8:48:11   END TIME:  8:50:00
         XES List statistics for  CAIDMSDBDCGRP1LI
                                                                                    ----- Wait Time -----
            List Name          ---Reads---    ---Writes--    --Deletes--    ---Waits---    Cumulative    Average
            Area List                   15             8              0             21       .0125        .0006
            File List                   25            20              0             44       .0590        .0013
            Queue List                   0             0              0              0       .0000        .0000


         INTERVAL    START TIME: 8:48:11   END TIME:  8:50:00
         Statistics for group     DBDCGRP1 member  SYSTEM74
            Message Type       ---Sends---    -Receives--
            Reply    Msg                 0              0
            Test     Msg                 0              0
            Sync.Stamp                   0              0
            GlobalDeadLk                 0              0
            DCMTDCUFSEND                 0              0
            AreaFileVal                  0              0
            Queue    Msg                 0              0
            Program  Msg                 0              0


         INTERVAL    START TIME: 8:48:11   END TIME:  8:50:00
         Statistics for group     DBDCGRP1 member  SYSTEM73
            Message Type       ---Sends---    -Receives--
            Reply    Msg                 2              0
            Test     Msg                 0              0
            Sync.Stamp                   0              0
            GlobalDeadLk                 0              0
            DCMTDCUFSEND                 0              0
            AreaFileVal                  0              2
            Queue    Msg                 0              0
            Program  Msg                 0              0
```

PMIRPT40 fields

Field	Description
Start Time	Starting time for the interval on a 24-hour clock (*hh:mm:ss*)
End Time	Ending time for the interval on a 24-hour clock (*hh:mm:ss*)

XES lock statistics

The following table describes the fields that contain information about the usage of XES lock structure *strname*.

Field	Description
Resource Type	Type of resource for which XES lock requests were issued: **LmgrResource:** Lock manager resources (e.g. DBKeys) **Phys.Page Lk:** DBIO buffer page locks **GlobalDead Lk:** Deadlock manager locks **LmgrProxy Lk:** Lock manager proxy locks **EnqDeq. Lock:** Locks for global ENQ/DEQ processing **AreaList Lk:** Locks associated with keeping track of areas that are shared **FileList Lk:** Locks associated with keeping track of files that are shared **Global Queue:** Locks for global queue area processing
Obtains	Total number of obtains done for the resource type
Alters	Total number of alters done for the resource type
Releases	Total number of releases done for the resource type
Waits	Total number of waits
Cumulative Wait Time	Total amount of time spent waiting for XES lock requests
Average Wait Time	Average amount of time spent waiting for XES lock requests

XES list statistics

The following table describes the fields that contain information about the usage of XES list structure *strname*.

Field	Description
List Name	The internal name of the list: **Area List:** Keeps track of areas that are shared **File List:** Keeps track of files that are shared **Queue List:** Keeps track of global queues
Reads	Total number of reads done on the list
Writes	Total number of writes done on the list
Deletes	Total number of deletes done on the list
Waits	Total number of waits
Cumulative Wait Time	Total amount of time spent waiting for XES list requests
Average Wait Time	Average amount of time spent waiting for XES list requests

Group member statistics

The following table describes the fields that contain information about the usage of this DC system of XCF group *grpname* for member *memname*.

Field	Description
Message Type	The internal name of the message: **Reply Msg:** A reply to one of the other message types **Test Msg:** Message type used for testing purposes **Sync. Stamp:** Message type used for invalidating the cache for SQL catalogs **GlobalDead Lk:** Deadlock manager messages **DCMTDCUFSEND:** Messages sent on behalf of a broadcasted DCMT, DCUF or SEND **AreaFileVal:** Message type used for informing data sharing members of shared files and areas **Queue Msg:** Message type used for informing data sharing members of shared queues **Program Msg:** Message type used for informing data sharing members of automatic program invalidation
Sends	Total number of sends done for the message type
Receives	Total number of receives done for the message type

PMIRPT90: Machine-readable copy

Statistics extracted by Report 00, output to either a tape or disk.

When you run PMIRPT90, you must run it with PMIRPT00. Additionally, you can use the following task parameters with PMIRPT90:

- CV NUMBER
- DATE FORMAT
- REPORT FROM/THRU

PMIRPT99: Input processing summary report

PMIRPT99 contains information on:

- **Interval selection parameters**: For more information, see Requesting Reports (see page 56).
- **Input card processing**
- **Input record processing statistics**:
- Records read by PMIRPT00
  - Records selected by PMIRPT00
  - Records dropped by PMIRPT00

  For example, this category includes the earliest record read, the latest record read, and the different record types read.
- **Processing of multipart records**: Task wait type and interval type records take up more than one DC/UCF log record.

Sample report

```
REPORT NO. 99                                          CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        INPUT PROCESSING SUMMARY REPORT
                                <-------------- YOUR COMPANY NAME --------->
                  DATE FORMAT:    DMY




         ---------------------------------


         INPUT CARD PROCESSING

              CARDS READ:                  1
              CARDS PROCESSED:             1
              COMMENT CARDS:               0
              CARD ERRORS:                 0



         INPUT RECORD PROCESSING STATISTICS


         RECORDS READ BY PMIRPT00

             # STAT RECS READ:          4,467

             # PMAM RECS READ:          4,179

             # PMIM RECS READ:            288

            EARLIEST REC READ:          07:54  ON 07/06/10  (10/158)
              LATEST REC READ:          08:10  ON 30/09/10  (99/274)

              BY RECORD TYPE
                AREA WAITS                204
                BUFFER WAITS               12
                CDMSLIB WAITS               3
                INTERVAL STATS              3
                INTERVAL WAITS              6
                JOURNAL WAITS              12
                LINE WAITS                 15
                PGMPOOL WAITS              12
                RUNUNIT STATS               3
                STGPOOL STATS               9
                STG TYPE WAITS              6
                DBGROUP WAITS               3


         RECORDS SELECTED BY PMIRPT00
REPORT NO. 99                                          CA, INC.                                          mm/dd/yy  PAGE    2
CA IDMS/PM nn.n    volser                        INPUT PROCESSING SUMMARY REPORT
                                <-------------- YOUR COMPANY NAME ------------>

         # PMIM RECS SELECTED:            186

         EARLIEST REC SELECTD:          07:54  ON 07/06/10  (10/158)
          LATEST REC SELECTED:          08:10  ON 07/06/10  (10/158)
```

```
          BY RECORD TYPE
            AREA WAITS                102
            BUFFER WAITS               12
            CDMSLIB WAITS               3
            INTERVAL STATS              3
            INTERVAL WAITS              6
            JOURNAL WAITS              12
            LINE WAITS                 15
            PGMPOOL WAITS              12
            RUNUNIT STATS               3
            STGPOOL STATS               9
            STG TYPE WAITS              6
            DBGROUP WAITS               3


RECORDS DROPPED BY PMIRPT00

 # PMAM RECS DROPPED:           4,179

 # PMIM RECS DROPPED:               0


PROCESSING OF MULTIPART RECORDS

     #PMINTDS SEQ# 1:               3
     #PMINTDS SEQ# 2:               3
```

Chapter 5: Application Monitor Batch Reports

This section contains the following topics:

Overview

You can use Application Monitor reports to:

- Track system utilization
- Perform trend analysis

You use a standard CA Culprit job stream to run Application Monitor reports. The report definitions are stored in the data dictionary. You can specify selection criteria to provide maximum control over the information printed.

The reporting component of the Application Monitor can also produce a machine-readable output file.

The first section in this chapter describes how to request Application Monitor reports. The remainder of the chapter contains a description of each of the numbered reports listed in the following table.

Report	Title/description
00	Extract and housekeeping routines (used internally)
PMNAME	Site or user name to appear in report-heading lines
01	Task Detail Report
02	Task Summary Report
03	CA ADS Dialog Detail Report
04	CA ADS Dialog Summary Report
05	User Detail Report
06	User Summary Report
07	Billing Group Detail Report

Report	Title/description
08	Billing Group Summary Report
09	Abnormal Termination Detail Report
10	Abnormal Termination Summary Report
11	LTERM Detail Report
12	LTERM Summary Report
13	PTERM Detail Report
14	PTERM Summary Report
15	System Detail Report
16	System Summary Report
17	Database Detail Report
18	Database Summary Report
19	DC Statistics Detail Report
20	DC Statistics Summary Report
31	Task Wait Summary Report
36	Task Wait Detail Report
80	Load Balancing Report (By Day and Central Version)
81	Load Balancing Report (By Central Version)
82	Load Balancing Report (By All Central Version)
90	Machine-readable output file containing the extracted statistics (in tape or disk format)
97	Summary Recap Report
99	Input Processing Summary Report

Requesting Reports

You request Application Monitor reports using an CA Culprit job stream. The job control language you need to run the reports is shown in Preparing to Run Reports (see page 25). In the job stream, you supply:

- Selection Criteria Parameters — for including and/or excluding specific information from the reports
- Report specification parameters — for specifying the dictionary to use, formatting options, and the appropriate report names

You can request any or all of the reports in a single run.

General rules for parameter input

- Every parameter is optional.
- Include any or all of these parameters in a single run.
- Use a single line for each separate parameter.
- If you specify more than one parameter, *all* conditions that you specify must be met in order for you to select a task for reporting.
- Use columns 1 through 72. Input beyond column 72 is ignored. No error is flagged (unless a quoted description is truncated).
- An asterisk (*) in column 1 indicates a comment line.
- Specify either the 3-letter abbreviation or the whole word. For example, PROGRA is invalid. The syntax rules indicate (in uppercase characters) any other allowable abbreviations or synonyms.
- Blank lines are ignored but generate a warning message.

Selection Criteria Parameters

Include selection criteria parameters in your CA Culprit JCL to include information in or exclude information from your Performance Monitor reports.

Parameters apply to all reports in a run

Selection criteria parameters apply to all of the reports you request in the same run. For example, if your selection criteria specifies reporting only for tasks within a certain time period, that time period is used for all of the reports in the run.

Positioning selection criteria parameters

Position selection criteria parameters in the JCL stream as follows:

System	Position in JCL
z/OS	Following the //SYS010 DD * statement
z/VSE	Following the /* in the EXEC CA Culprit step
z/VM	In the SYS010 file

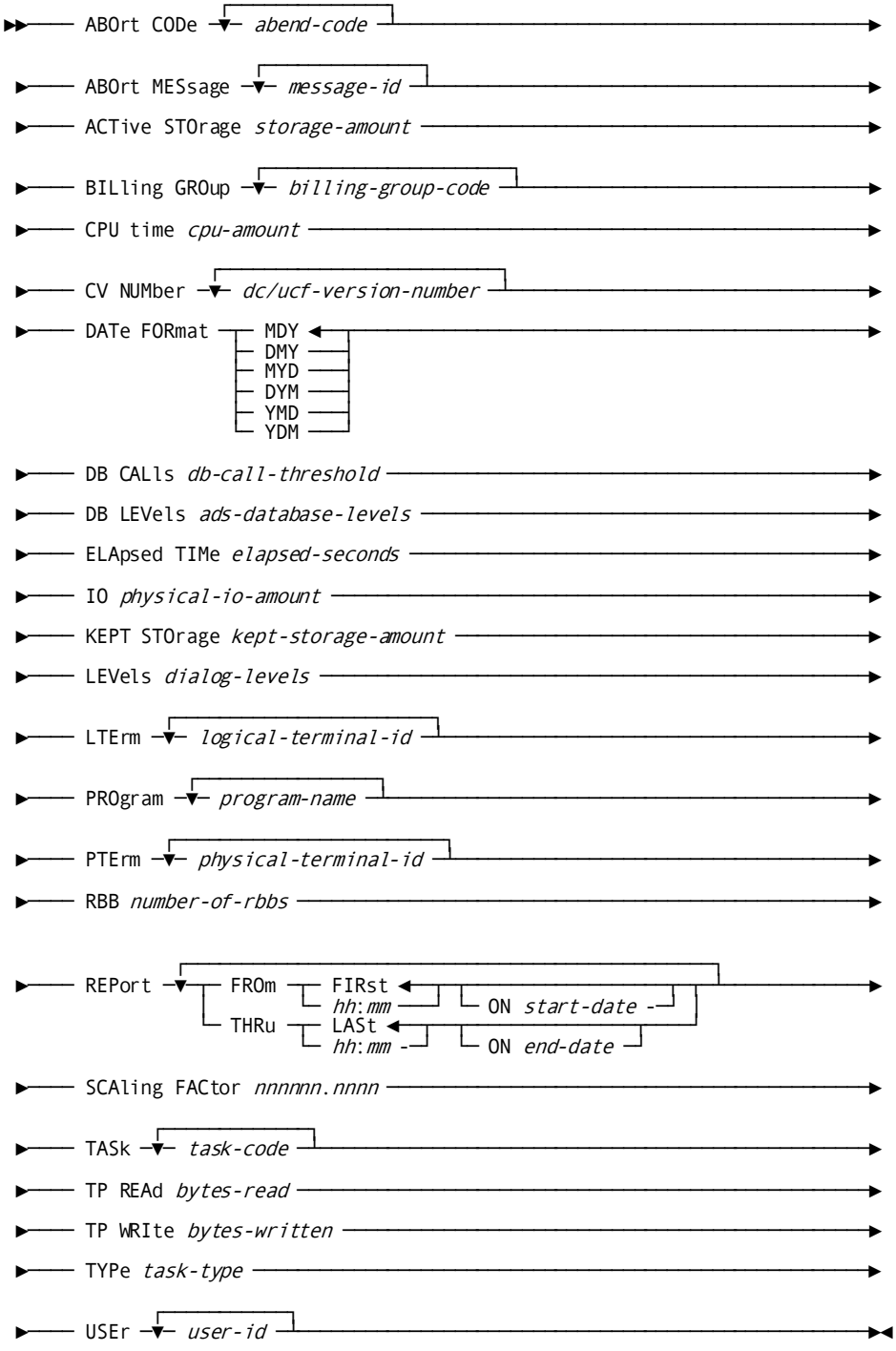
When you don't need selection parameters

If you don't need selection parameters for the run, then for:

- z/OS— Use //SYS010 DD DUMMY
- z/VSE— Leave out the parameters
- z/VM— Use SYS010 DUMMY

Syntax

Application Monitor selection criteria syntax and parameter descriptions follow. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate. You can omit leading zeros where syntax uses a number, unless otherwise noted.



Parameters

ABOrt CODe *abend-code*

Selects only those tasks that abended with the (4-character) database/data communications task abend code specified. *Abend-code* is a 4-character database/data communications abend code. You can specify up to 20 codes. The abbreviation ABRT is permitted.

ABOrt MESsage *message-id*

Selects only those tasks that abended with the DC/UCF error message ID specified (6 digits, excluding the severity code suffix). *Message-id* is the six-digit DC/UCF message ID. You can select up to 20 IDs. The abbreviations ABRT and MSG are permitted.

ACTive STOrage *storage-amount*

Selects only those tasks that used more than the specified number of bytes of main memory from a storage pool during active execution. You can use the abbreviation STG.

BILling GROup *billing-group-code*

Selects tasks by billing-group code. *Billing-group-code* is a 1- to 12-character billing-group code. Use single quotes if it contains embedded spaces. Use two quotation marks to indicate a quotation mark that is part of the description. Up to 20 codes are permitted. You can use the abbreviation GRP.

CPU time *cpu-amount*

Selects only those tasks that used more than *nnnn.nnnn* seconds of CPU time. *Cpu-amount* is a number between .0001 and 999999.9999.

CV NUMber *dc/ucf-version-number*

Selects only those tasks that ran under the specified DC/UCF system. *Dc/ucf-version-number* is a number between 0 and 9999. You can place multiple values on one line and you can use the abbreviation NBR. Up to 20 CV numbers are permitted.

DATe FORmat MDY/DMY/MYD/DYM/YMD/YDM

Specifies the date format that appears on the reports. The default is MDY. You can use the abbreviation FMT.

DB CALls *database-call-threshold*

Selects only those tasks that issued more than the specified number of database calls. Synonyms you can use are DB and DBCALLS.

DB LEVels *ads-database-levels*

Selects only those CA ADS dialogs that issued database calls from more than the specified number of application-thread levels. Non CA ADS tasks are dropped. You can use the abbreviation LVLS.

ELApsed TIMe *elapsed-seconds*

Selects only those tasks with an elapsed time longer than the specified number of seconds. The elapsed time is a number between .0001 and 9999.9999 and is the internal CA IDMS response time, and it is measured from task initiation to task termination within the DC/UCF system.

IO *physical-io-amount*

Selects only those tasks that issued more than the specified number of physical disk I/Os.

KEPt STOrage *kept-storage-amount*

Selects only those tasks that kept more than the specified number of bytes of main memory from a storage pool after task termination (across a pseudo-converse). You can use the abbreviation STG.

LEVels *dialog-levels*

Selects only those CA ADS dialogs that processed more than the specified number of levels in the application thread. Non CA ADS tasks are dropped. You can use the abbreviation LVLS.

LTErm *logical-terminal-id*

Selects only tasks initiated from the logical terminal specified. *Logical-terminal-id* is a 1- to 8-character logical terminal ID. Up to 50 IDs are permitted.

PROgram *program-name*

Selects only those tasks that execute the named program at the first level. *Program-name* is a 1- to 8-character program name. Up to 50 program names are permitted. You can use the abbreviations PROG and PGM.

PTErm *physical-terminal-id*

Selects only tasks initiated from the physical terminal specified. *Physical-terminal-id* is a 1- to 8-character physical terminal ID. Up to 50 IDs are permitted.

RBB *number-of-rbbs*

Selects only those CA ADS dialogs that obtained more than the specified number of record buffer blocks. Non CA ADS tasks are dropped.

REPort FROm/THRu

Selects intervals to be included in the report. If you want to report on the entire input file, don't include this parameter. You can specify this parameter once per run, and you must specify at least one FROM **or** one THRU. The default is FROM 00:00 ON 00/001 THRU 24:00 ON 99/365.

Regarding the time specification:

- Specify the time as *hh:mm* or *hhmm* (00:00 through 24:00).
- Times include the entire minute. For example, THRU 14:34 means up to 14:34:59.9999.
- Times must include the leading 0. For example, 09:00 is valid, but 9:00 is not.
- If you specify a time range, the FROM time must be earlier than the THRU time.

Regarding the date specification:

- Julian: *yy/ddd*
- Gregorian: as specified by DATE FORMAT
- The FROM date must be earlier or matching the THRU date.
- Slashes are optional in date specifications.

SCAling FACtor *nnnnnn.nnnn*

Defines a scaling factor for report graphs. *Nnnnnn.nnnn* is a numeric value that specifies the scaling factor (for example, .01 results in scaling of data in hundredths). The decimal point is not required and, if present, can be leading or trailing. Any more than 4 digits to the right of the decimal point are truncated. For example, 1.2345678 will be truncated to 1.2345. The default is 1.0. You can use the synonym SCALE FACTOR. About the values you can specify:

- 0 is invalid.
- The maximum is 999999.9999.
- Examples of valid values follow:

```
123456          .3456
  1234.5678   45.
000000.01      0.3
```

TASk *task-code*

Selects only tasks with the task code or (for CA ADS) dialog name specified. *Task-code* is a 1- to 8-character task code or dialog name. Up to 50 task codes are permitted.

TP REAd *bytes-read*

Selects only those tasks that read in more than the specified number of bytes from the terminal.

TP WRIte *bytes-written*

Selects only those tasks that wrote out more than the specified number of bytes to the terminal.

TYPe *task-type*

Selects only tasks of the type specified. Possible values for *task-type* are shown in the following table.

Task-type	Meaning
ADS/O	DC task whose first-level program language is the CA ADS process language
ASSEM	DC task whose first-level language is Assembler
COBOL	DC task whose first-level language is COBOL
PL/I	DC task whose first-level language is PL/I
CICS	CICS task
TPMON	Task initiated through a TP monitor other than CICS or a DC/UCF system
BATCH	Batch ERUS
ERUS	ERUS when PERFMON=NO is specified in the CA IDMS operating-system-specific SVC macro
SYSTM	DC/UCF system internal task
UNDEF	Undefined

USEr *user-id*

Selects only those tasks invoked by the specified user. *User-id* is a 1- to 8-character user ID. Use quotes if it contains embedded spaces. Use two quotation marks to indicate a quotation mark that is part of *user-id*.

Up to 20 user IDs are permitted. You can use the synonym USERID.

Examples

The parameters below select only those tasks for which the first-level program was written in CA ADS or COBOL that ran on June 7, 2010, during prime time (between 9 a.m. and 5 p.m.), and that used more than 2.5 seconds of CPU time.

```
TYPE          ADS/O
TYPE          COBOL
FROM 09:00 ON 10158 THRU 17:00 ON 10158
CPU TIME      2.5000
```

The parameters below select only those executions of tasks CSFDURLJ and CSFDUMVJ that issued more than 30 database calls and that abended with DC/UCF task abend code D004 (indicating that the task took more CPU time than was allowed). No time or date parameters are specified, so the entire period represented by the input file is considered.

```
TASK          CSFDURLJ
TASK          CSFDUMVJ
ABORT CODE    D004
DB CALLS      30
```

Report selection parameters

Report selection parameters define:

- The dictionary that contains the report definitions
- Whether to print CA Culprit parameters
- Which reports to produce

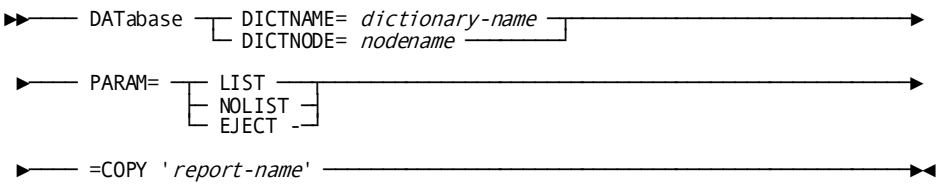
Positioning report selection parameters

Position report selection parameters in the report-request JCL stream, using one line for each parameter:

System	Position in JCL
z/OS	Following the //SYSIN DD * statement
z/VSE	Following the EXEC CA Culprit statement
z/VM	Following the DATABASE statement

Syntax and parameter descriptions for report selection parameters follow.

Syntax



Parameters

DATabase

Defines the data dictionary that contains the report definitions (DICTNAME option) or the node that controls the dictionary (DICTNODE option). Start this parameter in column 2.

PARAM=LIST/NOLIST/EJECT

Controls printing of the CA Culprit Sequential Input Parameter List:

- LIST (default) prints all parameters
- NOLIST prints no parameters
- EJECT starts each new listing at the top of a new page

Start this parameter in column 2.

=COPY '*report-name*'

Requests the named report; begin =COPY in column 1; you can repeat the parameter any number of times. *Report-name* must be enclosed in quotes. Acceptable values for *report-name* are given in the following table.

Value for Report-name	Meaning
PMARPT00	Performs housekeeping functions and extracts statistics for input to other reports; required, but not an output report
PMNAME	Supply the user site or company name to be printed in the heading of each report; required, but not an output report
PMARPT99	List an input processing summary based on the selection criteria specified

Value for Report-name	Meaning
PMARPT*nn*	Produce the report defined by the number (*nn*) specified: 01 Task Detail Report 02 Task Summary Report 03 CA ADS Dialog Detail Report 04 CA ADS Dialog Summary Report 05 User Detail Report 06 User Summary Report 07 Billing Group Detail Report 08 Billing Group Summary Report 09 Abnormal Termination Detail Report 10 Abnormal Termination Summary Report 11 LTERM Detail Report 12 LTERM Summary Report 13 PTERM Detail Report 14 PTERM Summary Report 15 System Detail Report 16 System Summary Report 17 Database Detail Report 18 Database Summary Report 19 DC Detail Report 20 DC Summary Report 31 Task Wait Summary Report 36 Task Wait Detail Report 80 Load Balancing Report (by day and central version) 81 Load Balancing Report (by day) 82 Load Balancing Report (all central versions) 90 Machine-readable copy of the extracted statistics, output either to tape or disk 97 Summary Recap Report

Examples

The following parameters select all printed reports. The CA Culprit report definitions are stored in the DICTCAS dictionary (DATABASE DICTNAME=DICTCAS). The report source (PARAM=NOLIST) is not printed.

```
 DATABASE DICTNAME=DICTCAS
 PARAM=NOLIST
=COPY 'PMARPT00'
=COPY 'PMNAME'
=COPY 'PMARPT99'
=COPY 'PMARPT01'
=COPY 'PMARPT02'
=COPY 'PMARPT03'
=COPY 'PMARPT04'
=COPY 'PMARPT05'
=COPY 'PMARPT06'
=COPY 'PMARPT07'
=COPY 'PMARPT08'
=COPY 'PMARPT09'
=COPY 'PMARPT10'
=COPY 'PMARPT11'
=COPY 'PMARPT12'
=COPY 'PMARPT13'
=COPY 'PMARPT14'
=COPY 'PMARPT15'
=COPY 'PMARPT16'
=COPY 'PMARPT17'
=COPY 'PMARPT18'
=COPY 'PMARPT19'
=COPY 'PMARPT20'
=COPY 'PMARPT80'
=COPY 'PMARPT81'
=COPY 'PMARPT82'
=COPY 'PMARPT97'
```

The parameters below request all summary reports, as well as an CA Culprit source listing for each report. The site uses only one dictionary, so there is no DATABASE parameter.

```
 PARAM=LIST
=COPY 'PMARPT00'
=COPY 'PMNAME'
=COPY 'PMARPT99'
=COPY 'PMARPT02'
=COPY 'PMARPT04'
=COPY 'PMARPT06'
=COPY 'PMARPT08'
=COPY 'PMARPT10'
=COPY 'PMARPT12'
=COPY 'PMARPT14'
=COPY 'PMARPT16'
=COPY 'PMARPT18'
=COPY 'PMARPT20'
```

Report Samples

The remainder of this chapter describes each report.

Required reports

These two required reports have no output:

- **PMARPT00**— Reads the input (archive) tape and formats it into global data fields; the data fields provide the input for all other reports.
- **PMNAME**— Reads the PMNAME module and inserts its contents into a global field called COMPANY-NAME; this produces the heading for each report.

Optional reports

The remaining optional reports for the Interval Monitor are described in numeric order. Each report description includes:

- An overview description
- A sample listing
- A description of the fields in the report

PMARPT01: Task detail report

PMARPT01 contains one detail line for every execution of each task reported. With CA ADS, it contains one detail line for every execution of each dialog. In the descriptions below, the word *task* should be interpreted as meaning either task or CA ADS dialog, as appropriate to the task type displayed.

Sample report

```
REPORT NO. 01                                     CA, INC.                                    mm/dd/yy PAGE     1
CA IDMS/PM nn.n     volser                      TASK DETAIL REPORT
DC SYSTEM VERSION #:     71          <------------- YOUR COMPANY NAME ------------->          DATA FROM: mm/dd/yy

                                                              CPU        WAIT      TP   TP     NUM      NUM   NUM   NUM   NUM
     TASK    VER      TASK     TASK C  START   STORAGE  STORAGE   TIME       TIME     READ WRITE   OF       OF    OF    OF    OF
     CODE    NUM      NUM      TYPE C   TIME   ACQUIRED   KEPT   (SECS)     (SECS)   LNGTH LNGTH  I/O     DBCLS  LVLS DBLVLS BUFS

  QUED        0           18 ASSEM   7:54:11     5760        0     .8927     4.5380     0     0    1002       26  --    --    --
  CLOD        0           19 ASSEM   7:54:11    13056        0     .0552      .3059     0     0      10       94  --    --    --
  FACTOTUM    1           20 ASSEM   7:54:11        0        0     .0011      .2076     0    27       0        0  --    --    --
  FACTOTUM    1           21 ASSEM   7:57:40        0        0     .0006      .0000     0    42       0        0  --    --    --
  S           0           22 ASSEM   7:57:43     9600        0     .0179      .0547    11     0       3       26  --    --    --
  FACTOTUM    1           23 ASSEM   7:57:43      256      512     .0025      .0023     0   117       1        6  --    --    --
  C           0           24 ASSEM   7:57:49    17280      768     .0141      .0787    15     0       1       12  --    --    --
  FACTOTUM    1           25 ASSEM   7:57:50    12288      768     .0032      .0013     0     0       0        8  --    --    --
  DCMT        0           26 ASSEM   7:57:50     9600      768     .0224      .0941    29     0       1        6  --    --    --
  FACTOTUM    1           27 ASSEM   7:57:50    12288      768     .0032      .0026     0     0       0        8  --    --    --
  DCMT        0           28 ASSEM   7:57:50     9600      768     .0054      .0023    33     0       1        6  --    --    --
  FACTOTUM    1           29 ASSEM   7:57:50    12288      768     .0028      .0004     0     0       0        8  --    --    --
  DCMT        0           30 ASSEM   7:57:50     9600      768     .0055      .0027    27     0       1        6  --    --    --
  FACTOTUM    1           31 ASSEM   7:57:50    12288      768     .0032      .0006     0     0       0        8  --    --    --
  DCMT        0           32 ASSEM   7:57:50     9600      768     .0055      .0026    31     0       1        6  --    --    --
  FACTOTUM    1           33 ASSEM   7:57:50    12288      768     .0032      .0020     0     0       0        8  --    --    --
  DCMT        0           34 ASSEM   7:57:50    12544      768     .0151      .0453    39     0       1        6  --    --    --
  FACTOTUM    1           35 ASSEM   7:57:50    12288      768     .0029      .0004     0     0       0        8  --    --    --
  DCMT        0           36 ASSEM   7:57:50    12544      768     .0057      .0019    39     0       0        6  --    --    --
  FACTOTUM    1           37 ASSEM   7:57:50    12288      768     .0031      .0004     0     0       0        7  --    --    --
  DCMT        0           38 ASSEM   7:57:50    12544     1536     .0076      .0036    39   890       0        6  --    --    --
  FACTOTUM    1           39 ASSEM   7:57:50    12032     1536     .0029     2.5447     3     0       0        5  --    --    --
  FACTOTUM    1           40 ASSEM   7:57:52        0     1536     .0007      .0003     0    85       0        0  --    --    --
  FACTOTUM    1           41 ASSEM   7:58:13        0      768     .0008      .0001    16     0       0        0  --    --    --
  C           0           42 ASSEM   7:58:13    17024      768     .0063      .0032    16     0       1       12  --    --    --
  FACTOTUM    1           43 ASSEM   7:58:13    12288      768     .0028      .0004     0     0       0        8  --    --    --
  DCMT        0           44 ASSEM   7:58:13     9600      768     .0056      .0321    29     0       1        6  --    --    --
  FACTOTUM    1           45 ASSEM   7:58:13    12288      768     .0036      .0037     0     0       0        8  --    --    --
  DCMT        0           46 ASSEM   7:58:13     9600      768     .0057      .0111    33     0       1        6  --    --    --
  FACTOTUM    1           47 ASSEM   7:58:13    12288      768     .0029      .0004     0     0       0        8  --    --    --
  DCMT        0           48 ASSEM   7:58:13     9600      768     .0054      .0121    27     0       1        6  --    --    --
  FACTOTUM    1           49 ASSEM   7:58:13    12288      768     .0030      .0003     0     0       0        8  --    --    --
  DCMT        0           50 ASSEM   7:58:13     9600      768     .0058      .0184    31     0       1        6  --    --    --
  FACTOTUM    1           51 ASSEM   7:58:14    12288      768     .0030      .0015     0     0       0        8  --    --    --
  DCMT        0           52 ASSEM   7:58:14    12544      768     .0061      .0012    39     0       0        6  --    --    --
  FACTOTUM    1           53 ASSEM   7:58:14    12288      768     .0029      .0004     0     0       0        8  --    --    --
  DCMT        0           54 ASSEM   7:58:14    12544      768     .0056      .0005    39     0       0        6  --    --    --
  FACTOTUM    1           55 ASSEM   7:58:14    12288      768     .0029      .0004     0     0       0        8  --    --    --
  DCMT        0           56 ASSEM   7:58:14    12544     1536     .0074      .0042    39   855       0        6  --    --    --
  FACTOTUM    1           57 ASSEM   7:58:14    12288     1536     .0036     2.5303     3     0       0        8  --    --    --
  DCMT        0           58 ASSEM   7:58:16     7296     1536     .0043      .0091    45     0       0        0  --    --    --
  FACTOTUM    1           60 ASSEM   7:58:16    12288     1536     .0029      .0004     0     0       0        8  --    --    --
  DCMT        0           61 ASSEM   7:58:16     7296     1536     .0041      .0013    45     0       0        0  --    --    --
  FACTOTUM    1           62 ASSEM   7:58:16    12288     1536     .0029      .0004     0     0       0        8  --    --    --
  DCMT        0           63 ASSEM   7:58:16     7296     1536     .0044      .0008    45  1280       0        0  --    --    --
  FACTOTUM    1           64 ASSEM   7:58:16    12288     1536     .0040     1.7660     3     0       0        8  --    --    --
  DCMT        0           65 ASSEM   7:58:18     7296     1536     .0044      .0030    45     0       0        0  --    --    --
  FACTOTUM    1           66 ASSEM   7:58:18    12288     1536     .0030      .0006     0     0       0        8  --    --    --
  DCMT        0           67 ASSEM   7:58:18     7296     1536     .0041      .0009    45     0       0        0  --    --    --
```

PMARPT01 fields

The following table describes the fields contained in PMARPT01.

Field	Description
Task Code	Task code or CA ADS dialog name
Ver Num	Version number of the level-1 program executed for the task defined above
Task Num	Sequential number assigned to the task at task initiation (also known as the task ID)
Task Type	Source language for the level-1 program for the task (ERUS for an external request unit)
CC	Completion code for the task: X if the task terminated abnormally; otherwise, the field is blank
Start Time	Time the task was initiated (*hh:mm:ss*)
Storage Active	Number of bytes of variable storage from a DC/UCF storage pool used by the task during execution
Storage Kept	Number of bytes of variable storage kept by the task at termination for pseudo-conversational processing; this does not include relocated storage for CA ADS
CPU Time	Total CPU time for the task (*ss.ssss*)
Wait Time	Total wait time for the task (*ss.ssss*)
TP Read Lngth	Total number of bytes read from the terminal during task processing
TP Write Lngth	Total number of bytes written to the terminal during task processing
Num Of I/O	Number of physical I/Os performed by the task
Num of Dbcls	Number of database calls issued by the task
Num of Lvls	Number of dialog levels in the CA ADS application structure; field is applicable to CA ADS only
Num of Dblvls	Number of dialog levels that issued database calls; this is the number of different levels, not the highest level number; field is applicable to CA ADS only
Num of Bufs	Number of record buffer blocks acquired for database record processing; field is applicable to CA ADS dialogs only

PMARPT02: Task summary report

PMARPT02 contains one summary line for each different task executed or, for CA ADS, for each different dialog. In the descriptions below, the word *task* should be interpreted as meaning either task or CA ADS dialog, as appropriate to the task type displayed.

Sample report

```
REPORT NO. 02                                      CA, INC.                                   mm/dd/yy PAGE     1
CA IDMS/PM nn.n    volser                    TASK SUMMARY REPORT
DC SYSTEM VERSION #:    56           <------------- YOUR COMPANY NAME ------------->          DATA FROM:  mm/dd/yy
                                        AVG      AVG        AVG         AVG     AVG   AVG      AVG     AVG  AVG  AVG  AVG
      TASK   VER     NUM  TASK    NUM STORAGE  STORAGE      CPU        WAIT     TP    TP       NUM     NUM  NUM  NUM  NUM
      CODE   NUM   TIMES  TYPE  TIMES  ACTIVE   KEPT        TIME        TIME   READ WRITE      OF      OF   OF   OF   OF
                    EXEC         ABND                      (SECS)      (SECS)  LNGTH LNGTH     I/O   DBCLS LVLS DBLVLS BUFS

    B          0       1 ASSEM           9856        0     0.0104      .5961     0     0        2      13  --    --   --
    BOM        1      12 ADS/O          30720    17109     0.0235      .3391     6   727        7      92   0     0    1
    BYE        0       1 ASSEM           9856        0     0.0000      .0414     0     0        1      17  --    --   --
    CAP        1       7 ADS/O          41179    13769     0.0269      .5578     7   761       11     152   0     0    1
    CAR        1      13 ADS/O          41945    16423     0.0237      .3977     6   949       10     115   0     0    1
    CAS        1      37 ADS/O          33218    11537     0.0465      .5644     5  1023       11     166   0     1    0
    CASCAS     1       6 ADS/O          32576    11776     0.0316      .7107     5   788       14     145   0     0    1
    CCC        1       7 ADS/O          54254    18341     0.0205      .3437     7   755       10     194   0     0    1
    CGL        1      13 ADS/O          33398    17388     0.0240      .2833     7   794       12     107   0     0    1
    CLIST      0       1 ASSEM          18176      640     0.0164     2.0227    20     0        4      29  --    --   --
    CLOD       0       1 UNDEF          25088        0     0.0280     2.2841     0     0        5     221  --    --   --
    COE        1      13 ADS/O          24930    17290     0.0190      .1365     5   837        4      58   1     0    1
    CPRD       1      11 ADS/O          42519    16547     0.0207      .3655     6   838       10     125   1     0    1
    CPRO       1      11 ADS/O          45452    16593     0.0264      .1825     6   896        7     107   1     0    1
    CPRS       1      12 ADS/O          36597    17739     0.0118      .1443     5   887        4      74   1     0    1
    CPRV       1       9 ADS/O          35584    15986     0.0164      .1114     7   864        4      79   1     0    1
    DCMT       0       7 ASSEM          13184    15013     0.0108      .4919    19   162        2      11  --    --   --
    DCUF       0       8 ASSEM          10752     3552     0.0049      .1663    22     0        2       6  --    --   --
    FACTOTUM   1      78 ASSEM           1971     9849     0.0002      .0444    29    84        0       1  --    --   --
    IDD        0      30 ASSEM      2   56508    68629     1.0380    43.6643    35   839     1234    1124  --    --   --
    INV        1      13 ADS/O          29588    15931     0.0148      .1399     5   798        4      56   0     0    1
    MPS        1      10 ADS/O          52659    15962     0.0217      .3436     9  1013        8     142   0     0    1
    MRP        1      10 ADS/O          37914    15616     0.0250      .1704     6   819        5      86   0     0    1
    OLP        0       6 ASSEM          13568    11392     0.6064    13.5025    10  1147      745    3699  --    --   --
    OLQ        0      25 ASSEM      2   61322     8443     0.1475     7.1972    57   736      201     230  --    --   --
    OPER       0       9 ASSEM          12004    15801     0.1050   519.6225    78  3163        2       7  --    --   --
    PMAM       0       1 ASSEM          16512     6144     0.0165      .7543    10   683        7      17  --    --   --
    PMIM       0       9 ASSEM          19172    15317     0.0145      .4763    10  1153        4      28  --    --   --
    PMRM       0       2 ASSEM          34368     5760     0.0349    52.2110    36  2724        7      54  --    --   --
    PMWNDRVR   1     187 ASSEM          27220    35579     0.0024      .2074     3  1714        0      11  --    --   --
    QUED       0       1 ASSEM           6656        0     1.0791    43.5960     0     0     2008      39  --    --   --
    RHDCSTTS   0       4 ASSEM          11776        0     0.0608     2.3894     0     0        8      32  --    --   --
    S          0       3 ASSEM          10752        0     0.0146      .6712    20     0       11      38  --    --   --
    SDEL       0       1 UNDEF          19328        0     0.0119     2.4336     0     0        2      50  --    --   --
    SFC        1      11 ADS/O          33699    17001     0.0206      .2957     4   819        7      97   0     0    1
    SIGNON     0       1 ASSEM          11520      768     0.0256     3.7168    46    96       14      69  --    --   --
    USGADEL    1       1 UNDEF          17536        0     0.0268    44.3700     0     0        2      44  --    --   --
    USGAFIX    1       1 UNDEF          17536        0     0.0246     2.7038     0     0        1      44  --    --   --
```

PMARPT02 fields

The following table describes the fields contained in PMARPT02.

Field	Description
Task Code	Task code or CA ADS dialog name

Field	Description
Ver Num	Version number of the level-1 program executed for the task defined above
Num Times Exec	Number of times the task was executed
Task Type	Source language for the level-1 program for the task (ERUS for an external request unit)
Num Times Abnd	Number of times the task terminated abnormally
Avg Storage Active	Average number of bytes of variable storage from a DC/UCF storage pool used by the task during execution
Avg Storage Kept	Average number of bytes of variable storage kept by the task at termination for pseudo-conversational processing; this does not include relocated storage for CA ADS
Avg CPU Time	Average CPU time for the task (*ss.ssss*)
Avg Wait Time	Average wait time for the task (*ss.ssss*)
Avg TP Read Lngth	Average number of bytes read from the terminal during task processing
Avg TP Write Lngth	Average number of bytes written to the terminal during task processing
Avg Num of I/O	Average number of physical I/Os performed by the task
Avg Num of Dbcls	Average number of database calls issued by the task
Avg Num of Lvls	Average number of dialog levels in the CA ADS application structure; field is applicable to CA ADS only
Avg Num of Dblvls	Average number of dialog levels that issued database calls; this is the number of different levels, not the highest level number; field is applicable to CA ADS only
Avg Num of Bufs	Average number of record buffer blocks acquired for database record processing; field is applicable to CA ADS dialogs only

PMARPT03: CA ADS dialog detail report

PMARPT03 contains one detail line for every execution of each CA ADS dialog. The fields found in PMARPT03 are identical to those in Report 01 (except column 1, which is Dialog Name, rather than Task Code). See PMARPT01: Task detail report (see page 125) for detailed field information. Task Type, shown in Report 01, does not apply here.

Sample report

```
REPORT NO. 03                                              CA, INC.                                          mm/dd/yy PAGE     1
CA IDMS/PM nn.n     volser                          CA ADS DIALOG DETAIL REPORT
DC SYSTEM VERSION #:     71             <------------- YOUR COMPANY NAME ------------->                DATA FROM: mm/dd/yy
```

DIALOG NAME	VER NUM	TASK NUM	C C	START TIME	STORAGE ACTIVE	STORAGE KEPT	CPU TIME (SECS)	WAIT TIME (SECS)	TP READ LNGTH	TP WRITE LNGTH	NUM OF I/O	NUM OF DBCLS	NUM OF LVLS	NUM OF DBLVLS	NUM OF BUFS
BMRET	1	103		8:01:35	15488	6272	.0372	.2836	11	121	3	30	0	0	1
BMRET	1	104		8:01:41	25728	6272	.0228	.1754	16	112	4	27	0	0	1
BMRET	1	105		8:01:47	9728	768	.0038	.0003	1	0	0	0	0	0	0
BMRET	1	207		8:10:27	15232	6016	.0079	.0111	14	121	0	0	0	0	1
BMRET	1	206		8:10:27	15232	6016	.0074	.0260	14	121	0	0	0	0	0
BMRET	1	223		8:10:28	15232	6272	.0072	.0029	14	121	0	0	0	0	1
BMRET	1	226		8:10:28	15232	6016	.0072	.0006	14	121	0	0	0	0	0
BMRET	1	238		8:10:29	25984	6272	.0154	.1515	16	112	2	10	0	0	1
BMRET	1	235		8:10:29	15232	6016	.0073	.0302	14	121	0	0	0	0	1
BMRET	1	244		8:10:29	55808	6272	.0146	1.9891	96	3652	0	0	0	0	0
BMRET	1	251		8:10:29	25728	6272	.0124	.1461	16	112	1	10	0	0	1
BMRET	1	248		8:10:29	25984	6272	.0159	.1816	16	112	2	10	0	0	0
BMRET	1	246		8:10:29	15232	6016	.0072	.0390	14	121	0	0	0	0	0
BMRET	1	260		8:10:29	15232	6016	.0077	.0056	14	121	0	0	0	0	0
BMRET	1	259		8:10:29	25728	6272	.0171	.1438	16	112	2	10	0	0	1
BMRET	1	266		8:10:30	25984	6272	.0135	.0470	16	112	1	10	0	0	1
BMRET	1	265		8:10:30	15232	6016	.0072	.0075	14	121	0	0	0	0	1
BMRET	1	267		8:10:30	55808	6272	.0147	1.6764	96	3652	0	0	0	0	0
BMRET	1	273		8:10:31	55552	6272	.0148	1.5521	96	3652	0	0	0	0	0
BMRET	1	272		8:10:31	15232	6016	.0075	.0117	14	121	0	0	0	0	0
BMRET	1	271		8:10:31	15232	6016	.0075	.0193	14	121	0	0	0	0	0
BMRET	1	269		8:10:31	15232	6016	.0073	.0271	14	121	0	0	0	0	0
BMRET	1	281		8:10:31	55808	6272	.0136	1.4618	96	3652	0	0	0	0	0
BMRET	1	280		8:10:31	25728	6272	.0115	.0673	16	112	1	10	0	0	1
BMRET	1	279		8:10:31	25984	6272	.0139	.0816	16	112	1	10	0	0	1
BMRET	1	277		8:10:31	15232	6016	.0077	.0255	14	121	0	0	0	0	0
BMRET	1	284		8:10:31	25728	6272	.0119	.0127	16	112	1	10	0	0	1
BMRET	1	289		8:10:31	55808	6272	.0150	1.6657	96	3652	0	0	0	0	0
BMRET	1	288		8:10:31	25984	6272	.0138	.0788	16	112	1	10	0	0	0
BMRET	1	286		8:10:31	25728	6272	.0143	.0964	16	112	1	10	0	0	1
BMRET	1	295		8:10:32	15232	6016	.0086	.0074	14	121	0	0	0	0	0
BMRET	1	294		8:10:32	55808	6272	.0145	1.8189	96	3652	0	0	0	0	0
BMRET	1	292		8:10:32	25728	6272	.0113	.0512	16	112	0	10	0	0	0
BMRET	1	291		8:10:32	15232	6016	.0072	.0286	14	121	0	0	0	0	0
BMRET	1	300		8:10:32	55808	6272	.0136	2.0896	96	3652	0	0	0	0	0
BMRET	1	299		8:10:32	55552	6272	.0132	2.0939	96	3652	0	0	0	0	1
BMRET	1	298		8:10:32	55552	6272	.0149	2.0771	96	3652	0	0	0	0	1
BMRET	1	297		8:10:32	15232	6016	.0072	.0198	14	121	0	0	0	0	0
BMRET	1	296		8:10:32	15232	6016	.0074	.0285	14	121	0	0	0	0	0
BMRET	1	305		8:10:32	55552	6272	.0142	1.9555	96	3652	0	0	0	0	0
BMRET	1	303		8:10:32	55552	6272	.0122	1.9949	96	3652	0	0	0	0	1
BMRET	1	302		8:10:33	55552	6272	.0123	1.9971	96	3652	0	0	0	0	1
BMRET	1	301		8:10:33	15232	6016	.0073	.0290	14	121	0	0	0	0	1
BMRET	1	310		8:10:33	55552	6272	.0135	2.3937	96	3652	0	0	0	0	0
BMRET	1	308		8:10:33	25984	6272	.0154	.0976	16	112	1	10	0	0	0
BMRET	1	307		8:10:33	25728	6272	.0121	.1347	16	112	1	10	0	0	0
BMRET	1	306		8:10:33	15232	6016	.0075	.0225	14	121	0	0	0	0	0
BMRET	1	312		8:10:33	25984	6272	.0148	.1084	16	112	1	10	0	0	0
BMRET	1	311		8:10:33	25984	6272	.0127	.1180	16	112	1	10	0	0	0

PMARPT04: CA ADS dialog summary report

PMARPT04 contains one summary line for each different CA ADS dialog executed. The fields in PMARPT04 are identical to those in Report 02 (except column 1, which is Dialog Name, rather than Task Code). See PMARPT02: Task summary report (see page 127) for detailed field information. Task Type, shown in Report 02, does not apply here.

Sample report

```
REPORT NO. 04                                              CA, INC.                                          mm/dd/yy PAGE     1
CA IDMS/PM nn.n     volser                          CA ADS DIALOG SUMMARY REPORT
DC SYSTEM VERSION #:     56             <------------- YOUR COMPANY NAME ------------->              DATA FROM:  mm/dd/yy

                     NUM    NUM    AVG      AVG         AVG          AVG      AVG    AVG       AVG      AVG    AVG    AVG    AVG
    DIALOG   VER    TIMES  TIMES  STORAGE  STORAGE       CPU          WAIT      TP     TP        NUM      NUM    NUM    NUM    NUM
     NAME    NUM    EXEC   ABND   ACTIVE   KEPT          TIME         TIME     READ  WRITE      OF       OF     OF     OF     OF
                                                         (SECS)       (SECS)   LNGTH  LNGTH      I/O     DBCLS  LVLS  DBLVLS  BUFS

   CAPDAQIN    1       2           71040     9216       .0456       1.3122      4    540        24      352     1      1      0
   CARDIPA0    1       1           52736    25472       .0322        .5265      7   1177        14      203     0      1      1
   CARDUBH0    1       1           59264    12800       .0514       1.3799      7   1103        46      411     0      1      0
   CARDUMU0    1       2           65984     8960       .0345        .7719      4    638        22      224     0      1      0
   CASDEXIT    1      12           23168     4800       .0046        .0565     14      0         0        2     0      0      0
   CASDINST    1       2           25856    11904       .0095        .2758      8    489         5       48     0      1      0
   CASDIPLM    1       2           30272     9984       .0257        .8796      5    889        20      120     0      1      0
   CASDIVUM    1       1           38400    20608       .0186        .1873      7    766         5      141     0      1      1
   CASDMENU    1      31           46443    17131       .0287        .4681      4    944        12      171     1      0      1
   CASDMEN1    1      73           26094    17999       .0074        .0398      5   1017         1       24     0      0      1
   CASDUPLT    1       1           25984    19968       .0118        .2039      7    268         8       69     0      1      1
   CBMDAPPM    1       1           49408    23168       .0353        .8173      7    468        23      302     1      1      1
   CBMDIPRT    1       3           27093    20779       .0125        .2171      4    591         6       78     0      1      1
   CCCDIPCS    1       2          117184    24064       .0416        .6702      4    477        22      498     0      1      1
   CGLDEXIT    1       1           31616     5248       .0106        .1498     14      0         4       62     0      0      0
   CGLDIOL0    1       1           42752    21120       .0424        .7792      7   1355        40      201     0      1      1
   CGLDISX0    1       2           31744    12288       .0180        .3427      4    474        12      115     0      1      1
   CGLDITL0    1       3           35627    20224       .0167        .2208     10    650         7      105     0      1      1
   CGLDMENU    1       2           50176    18304       .0414        .6650      5    890        30      233     1      0      1
   CICDIOMO    1       1           51200    20096       .0209       1.0073      7   1040         6      163     1      0      1
   CICDIORL    1       2           45376    11776       .0270        .7744      4    421        25      180     1      0      1
   CMPDUPST    1       5           71526    13722       .0307        .3530     11   1183        10      207     0      1      0
   CMRDAMOR    1       1           55296    24576       .0532       1.4330      7    769        45      414     1      1      1
   COEDIDF1    1       1           25600    19968       .0122        .2402      7    424         3       67     2      1      1
   COEDIDF2    1       1           27136    21504       .0176        .1755      7   1262         5       87     2      1      1
   CPRDIVN3    1       2           40960    19328       .0249        .3670      7   1214        14      140     2      0      1
   CPRDRCGN    1       1           87680    18304       .0674       1.6442      7   1140        42      614     2      1      0
   CPRDUDF1    1       1           75008    29184       .0308        .5102      7    959        13      237     2      1      1
   CPRDUPC1    1       1           36608    20992       .0194        .2428      7    883         6      113     2      1      1
   CPRDURPT    1       1          116224    19328       .0355        .3510      7    740        14      334     2      0      1
   CPRDUVN3    1       2           39424    11648       .0162        .1711      4    598         6      124     1      0      1
   CSSDEXIT    1       3           23637     2176       .0148        .3805     12      0         3       76     0      0      0
   CSSDILUS    1      16           34080     9984       .0480        .4611      4   1078        15      166     0      1      0
   CSSDILUT    1       5           35789    10240       .0467        .3785      3   1309         7      208     0      1      0
   CSSDIUTG    1       3           34944     9088       .0304        .4884      5    487        11      198     0      1      0
   CSSDMENU    1       2           50176    15616       .0686       3.3333      5   1006        27      305     1      0      1
   CSSDUACC    1       2           45184    19200       .0773        .7650      3   1818        17      335     0      1      0
   CSSDUNST    1       1           38784    15744       .0419        .9846      7    577        23      273     1      0      1
   CSSDUUML    1       1           44032    21504       .0405        .7901      7    426        21      212     0      1      2
```

PMARPT05: User detail report

PMARPT05 contains one detail line for every execution of each task, or each CA ADS dialog, executed by the user. The user is identified at the top of the report. The detail report is followed by a summary recap of user activity.

Sample report

```
REPORT NO. 05                                        CA, INC.                                          mm/dd/yy PAGE    26
CA IDMS/PM nn.n    volser                          USER DETAIL REPORT
DC SYSTEM VERSION #:    71          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy

   USER:  DBCRUSER
                                                                CPU       WAIT      TP    TP    NUM      NUM    NUM   NUM   NUM
   TASK   VER     TASK     TASK C  START   STORAGE  STORAGE    TIME      TIME     READ WRITE    OF       OF     OF    OF    OF
   CODE   NUM     NUM      TYPE C   TIME    ACTIVE    KEPT    (SECS)    (SECS)   LNGTH LNGTH   I/O     DBCLS   LVLS DBLVLS BUFS


 BMRET      1        1332 ADS/O    8:12:06     9728     768      .0040     .0005     1     0        0        0   0     0     0
 BMRET      1        1331 ADS/O    8:12:06     9728     768      .0040     .0048     1     0        0        0   0     0     0
 BMRET      1        1330 ADS/O    8:12:06     9728     768      .0038     .0090     1     0        0        0   0     0     0
 FACTOTUM   1        1335 ASSEM    8:12:06        0     768      .0005     .0184     0    42        0        0   --    --    --
 FACTOTUM   1        1334 ASSEM    8:12:06        0     768      .0006     .0190     0    42        0        0   --    --    --
 FACTOTUM   1        1333 ASSEM    8:12:06        0     768      .0007     .0198     0    42        0        0   --    --    --
 BMRET      1        1339 ADS/O    8:12:06     9728     768      .0042     .0035     1     0        0        0   0     0     0
 BMRET      1        1338 ADS/O    8:12:06     9728     768      .0039     .0092     1     0        0        0   0     0     0
 FACTOTUM   1        1341 ASSEM    8:12:06        0     768      .0006     .0005     0    42        0        0   --    --    --
 FACTOTUM   1        1340 ASSEM    8:12:06        0     768      .0007     .0012     0    42        0        0   --    --    --
 BMRET      1        1346 ADS/O    8:12:07     9728     768      .0043     .0023     1     0        0        0   0     0     0
 BMRET      1        1345 ADS/O    8:12:07     9728     768      .0042      .0089    1     0        0        0   0     0     0
 FACTOTUM   1        1348 ASSEM    8:12:07        0     768      .0007     .0015     0    42        0        0   --    --    --
 FACTOTUM   1        1347 ASSEM    8:12:07        0     768      .0007     .0024     0    42        0        0   --    --    --
 BMRET      1        1351 ADS/O    8:12:07     9728     768      .0046     .0062     1     0        0        0   0     0     0
 BMRET      1        1350 ADS/O    8:12:08     9728     768      .0045     .0113     1     0        0        0   0     0     0
 BMRET      1        1349 ADS/O    8:12:08     9728     768      .0039     .0159     1     0        0        0   0     0     0
 FACTOTUM   1        1355 ASSEM    8:12:08        0     768      .0005     .0014     0    42        0        0   --    --    --
 FACTOTUM   1        1354 ASSEM    8:12:08        0     768      .0009     .0020     0    42        0        0   --    --    --
 FACTOTUM   1        1353 ASSEM    8:12:08        0     768      .0006     .0031     0    42        0        0   --    --    --
 BMRET      1        1352 ADS/O    8:12:08     9728     768      .0042      .0040    1     0        0        0   0     0     0
 FACTOTUM   1        1356 ASSEM    8:12:08        0     768      .0005     .0041     0    42        0        0   --    --    --
 BMRET      1        1361 ADS/O    8:12:08     9728     768      .0041     .0013     1     0        0        0   0     0     0
 FACTOTUM   1        1362 ASSEM    8:12:08        0     768      .0006     .0068     0    42        0        0   --    --    --
  *** SUMMARY RECAP ***     FOR USERID:   DBCRUSER                    FOR DC SYSTEM VERSION #:   71 ON 30/09/99
              TOTAL NUMBER OF TASKS :              1199            AVERAGE STORAGE USED :               36187
              TOTAL PHYSICAL I/O :                  193            AVERAGE STORAGE KEPT :                5501
               TOTAL DATABASE CALLS :               5267             AVERAGE TP I/O READ LENGTH :            51
              TOTAL ABNORMAL TERMINATIONS :           0            AVERAGE TP I/O WRITE LENGTH :         1718
              TOTAL CPU TIME (HH.MM.SS):        0:00:13
 *** SUMMARY RECAP ***     FOR USERID:   DBCRUSER                       FOR DC SYSTEM VERSION #:   71 ON ALL DATES
              TOTAL NUMBER OF TASKS :              1199            AVERAGE STORAGE USED :               36187
              TOTAL PHYSICAL I/O :                  193            AVERAGE STORAGE KEPT :                5501
              TOTAL DATABASE CALLS :               5267            AVERAGE TP I/O READ LENGTH :            51
```

User identification

The user identification at the top of the report varies, depending on the circumstances at the time the tasks shown on the report were executed. A prefix to the user identification indicates how the tasks were executed. The user identification itself corresponds to the prefix.

If no user was signed on under the DC/UCF system or no operator ID was available for CICS, an appropriate message replaces the ID. For example, in the DC/UCF system, the message is DC-NO USER ID AVAILABLE.

Prefix	Task executed under	User identification
DC	DC/UCF	DC/UCF user ID

Prefix	Task executed under	User identification
CICS	CICS	CICS operator ID
TPMON	TP monitor other than DC/UCF or CICS	TP monitor ID
ERUS	Batch	None: BATCH displays instead of an ID
ERUS	ERUS, if PERFMON=NO is specified in the CA IDMS operating-system-specific SVC macro	None: UNDEFINED displays instead of an ID

PMARPT05 fields

The fields in PMARPT05 are identical to those in report 01. See PMARPT01: Task detail report (see page 125) for detailed field descriptions.

Descriptions of the additional Summary Recap fields at the end of PMARPT05 are shown in the following table. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate. The fields in PMARPT05 are identical to those in Report 01. See PMARPT01: Task detail report (see page 125) for detailed field information.

Field	Description
Total Number of Tasks	Total tasks executed by the user
Total Physical I/O	Total number of physical I/Os performed by the tasks
Total Database Calls	Total number of database calls issued by the tasks
Total Abnormal Terminations	Total number of tasks that terminated abnormally
Total CPU Time	Total CPU time for the above tasks (*hh:mm:ss*)
Average Storage Used	Average number of bytes of variable storage from a DC/UCF storage pool used by the tasks during execution
Average Storage Kept	Average number of bytes of variable storage kept by the tasks at task termination for pseudo-conversational processing; this does not include relocated storage for CA ADS
Average TP I/O Read Length	Average number of bytes read from the terminal during task processing
Average TP I/O Write Length	Average number of bytes written to the terminal during task processing

PMARPT06: User summary report

PMARPT06 contains one summary line for each different task, or each different CA ADS dialog, executed by the user identified at the top of the report. The report is followed by a summary recap of user activity.

Sample report

```
REPORT NO. 06                                          CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                          USER SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM:  mm/dd/yy
   USER:  EMMWI02
                                      AVG      AVG        AVG       AVG     AVG   AVG      AVG     AVG   AVG   AVG   AVG
      TASK   VER     NUM  TASK   NUM STORAGE STORAGE      CPU      WAIT     TP    TP      NUM     NUM   NUM   NUM   NUM
      CODE   NUM   TIMES  TYPE TIMES  ACTIVE    KEPT     TIME      TIME    READ WRITE     OF      OF    OF    OF    OF
                   EXEC        ABND                    (SECS)    (SECS)   LNGTH LNGTH    I/O    DBCLS  LVLS DBLVLS BUFS

     FACTOTUM   1       5 ASSEM           1562    14336     .0014     .5050   428    66       1       7  NA    NA    NA
     PMAM       0       1 ASSEM          16512     6144     .0133     .7543    10   683       7      17  NA    NA    NA
     PMIM       0       1 ASSEM          17408    10624     .0094     .2286    10  1153       6      17  NA    NA    NA
     PMRM       0       1 ASSEM          26112      512     .0279   86.6013    46  3325       2      12  NA    NA    NA
     PMWNDRVR   1     136 ASSEM          29404    42790     .0038     .1650     4  1737       0       6  NA    NA    NA
     SIGNON     0       1 ASSEM          11520      768     .0159    3.7168    46    96      14      69  NA    NA    NA
 *** SUMMARY RECAP ***      FOR USERID:  EMMWI02                    FOR DC SYSTEM VERSION #:   56 ON  6/19/99
               TOTAL NUMBER OF TASKS :                145            AVERAGE STORAGE USED :                28126
               TOTAL PHYSICAL I/O :                    46            AVERAGE STORAGE KEPT :                40753
               TOTAL DATABASE CALLS :                 982            AVERAGE TP I/O READ LENGTH :             19
               TOTAL ABNORMAL TERMINATIONS :            0            AVERAGE TP I/O WRITE LENGTH :          1668
               TOTAL CPU TIME (HH:MM:SS):        0:00:01
*** SUMMARY RECAP ***     FOR USERID:    EMMWI02                       FOR DC SYSTEM VERSION #:   56 ON ALL DATES
               TOTAL NUMBER OF TASKS :                145            AVERAGE STORAGE USED :                28126
               TOTAL PHYSICAL I/O :                    46            AVERAGE STORAGE KEPT :                40753
               TOTAL DATABASE CALLS :                 982            AVERAGE TP I/O READ LENGTH :             19
               TOTAL ABNORMAL TERMINATIONS :            0            AVERAGE TP I/O WRITE LENGTH :          1668
               TOTAL CPU TIME (HH:MM:SS):        0:00:01
*** SUMMARY RECAP ***     FOR USERID:    EMMWI02                       *** TOTALS ***
               TOTAL NUMBER OF TASKS :                145            AVERAGE STORAGE USED :                28126
               TOTAL PHYSICAL I/O :                    46            AVERAGE STORAGE KEPT :                40753
               TOTAL DATABASE CALLS :                 982            AVERAGE TP I/O READ LENGTH :             19
               TOTAL ABNORMAL TERMINATIONS :            0            AVERAGE TP I/O WRITE LENGTH :          1668
               TOTAL CPU TIME (HH:MM:SS):        0:00:01
```

User identification

The user identification at the top of the report varies, depending on the circumstances at the time the tasks shown on the report were executed. A prefix to the user identification specifies how the tasks were executed. The user identification itself corresponds to the prefix:

Prefix	Task executed under	User identification
DC	DC/UCF	DC/UCF user ID
CICS	CICS	CICS operator ID
TPMON	TP monitor other than DC/UCF or CICS	TP monitor ID

Prefix	Task executed under	User identification
ERUS	Batch	None: BATCH displays instead of an ID
ERUS	ERUS, if PERFMON=NO is specified in the CA IDMS operating-system-specific SVC macro	None: UNDEFINED displays instead of an ID

If no user was signed on under the DC/UCF system or no operator ID was available for CICS, an appropriate message replaces the ID. For example, in the DC/UCF system, the message is DC-NO USER ID AVAILABLE.

PMARPT06 fields

The fields in PMARPT06 are identical to those in report 02. See PMARPT02: Task summary report (see page 127) for detailed field descriptions.

Descriptions of the additional Summary Recap fields at the end of PMARPT06 are shown in the following table. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate.

Field	Description
Total Number of Tasks	Total tasks executed by the user
Total Physical I/O	Total number of physical I/Os performed by the tasks
Total Database Calls	Total number of database calls issued by the tasks
Total Abnormal Terminations	Total number of tasks that terminated abnormally
Total CPU Time	Total CPU time for the above tasks (*hh:mm:ss*)
Average Storage Used	Average number of bytes of variable storage from a DC/UCF storage pool used by the tasks during execution
Average Storage Kept	Average number of bytes of variable storage kept by the tasks at task termination for pseudo-conversational processing; this does not include relocated storage for CA ADS
Average TP I/O Read Length	Average number of bytes read from the terminal during task processing
Average TP I/O Write Length	Average number of bytes written to the terminal during task processing

PMARPT07: Billing group detail report

PMARPT07 contains one detail line for every execution of each task, or each CA ADS dialog, executed under the billing group code. The billing group code is shown at the top of the report. The detail report is followed by a summary recap of billing group activity.

Sample report

```
REPORT NO. 07                                        CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                       BILLING GROUP DETAIL REPORT
DC SYSTEM VERSION #:    71          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy

   BILLING GROUP:    UNDEFINED

                                                                    CPU       WAIT      TP    TP    NUM      NUM    NUM   NUM   NUM
   TASK   VER     TASK     TASK C  START   STORAGE  STORAGE    TIME      TIME     READ WRITE   OF       OF     OF    OF    OF
   CODE   NUM     NUM      TYPE C   TIME    ACTIVE    KEPT    (SECS)    (SECS)   LNGTH LNGTH  I/O     DBCLS   LVLS DBLVLS BUFS


 QUED       0          18 ASSEM    7:54:11     5760       0      .8927     4.5380     0     0     1002       26  --    --    --
 CLOD       0          19 ASSEM    7:54:11    13056       0      .0552      .3059     0     0       10       94  --    --    --
 FACTOTUM   1          20 ASSEM    7:54:11        0       0      .0011      .2076     0    27        0        0  --    --    --
 FACTOTUM   1          21 ASSEM    7:57:40        0       0      .0006      .0000     0    42        0        0  --    --    --
 S          0          22 ASSEM    7:57:43     9600       0      .0179      .0547    11     0        3       26  --    --    --
 FACTOTUM   1          23 ASSEM    7:57:43      256     512      .0025      .0023     0   117        1        6  --    --    --
 C          0          24 ASSEM    7:57:49    17280     768      .0141      .0787    15     0        1       12  --    --    --
 FACTOTUM   1          25 ASSEM    7:57:50    12288     768      .0032      .0013     0     0        0        8  --    --    --
 DCMT       0          26 ASSEM    7:57:50     9600     768      .0224       .0941    29     0        1        6  --    --    --
 FACTOTUM   1          27 ASSEM    7:57:50    12288     768      .0032      .0026     0     0        0        8  --    --    --
 DCMT       0          28 ASSEM    7:57:50     9600     768      .0054      .0023    33     0        1        6  --    --    --
 FACTOTUM   1          29 ASSEM    7:57:50    12288     768      .0028      .0004     0     0        0        8  --    --    --
 DCMT       0          30 ASSEM    7:57:50     9600     768      .0055      .0027    27     0        1        6  --    --    --
 FACTOTUM   1          31 ASSEM    7:57:50    12288     768      .0032      .0006     0     0        0        8  --    --    --
 DCMT       0          32 ASSEM    7:57:50     9600     768      .0055      .0026    31     0        1        6  --    --    --
 FACTOTUM   1          33 ASSEM    7:57:50    12288     768      .0032      .0020     0     0        0        8  --    --    --
 DCMT       0          34 ASSEM    7:57:50    12544     768      .0151      .0453    39     0        1        6  --    --    --
 FACTOTUM   1          35 ASSEM    7:57:50    12288     768      .0029       .0004     0     0        0        8  --    --    --
 DCMT       0          36 ASSEM    7:57:50    12544     768      .0057      .0019    39     0        0        6  --    --    --
 FACTOTUM   1          37 ASSEM    7:57:50    12288     768      .0031      .0004     0     0        0        7  --    --    --
 DCMT       0          38 ASSEM    7:57:50    12544    1536      .0076      .0036    39   890        0        6  --    --    --
 FACTOTUM   1          39 ASSEM    7:57:50    12032    1536      .0029     2.5447     3     0        0        5  --    --    --
 FACTOTUM   1          40 ASSEM    7:57:52        0    1536      .0007      .0003     0    85        0        0  --    --    --
 FACTOTUM   1          41 ASSEM    7:58:13        0     768      .0008      .0001    16     0        0        0  --    --    --
 C          0          42 ASSEM    7:58:13    17024     768      .0063      .0032    16     0        1       12  --    --    --
 FACTOTUM   1          43 ASSEM    7:58:13    12288     768      .0028      .0004     0     0        0        8  --    --    --
 DCMT       0          44 ASSEM    7:58:13     9600     768      .0056       .0321    29     0        1        6  --    --    --
 FACTOTUM   1          45 ASSEM    7:58:13    12288     768      .0036      .0037     0     0        0        8  --    --    --
 DCMT       0          46 ASSEM    7:58:13     9600     768      .0057      .0111    33     0        1        6  --    --    --
 FACTOTUM   1          47 ASSEM    7:58:13    12288     768      .0029      .0004     0     0        0        8  --    --    --
 DCMT       0          48 ASSEM    7:58:13     9600     768      .0054      .0121    27     0        1        6  --    --    --
 FACTOTUM   1          49 ASSEM    7:58:13    12288     768      .0030      .0003     0     0        0        8  --    --    --
 DCMT       0          50 ASSEM    7:58:13     9600     768      .0058      .0184    31     0        1        6  --    --    --
 FACTOTUM   1          51 ASSEM    7:58:14    12288     768      .0030      .0015     0     0        0        8  --    --    --
 DCMT       0          52 ASSEM    7:58:14    12544     768      .0061      .0012    39     0        0        6  --    --    --
 FACTOTUM   1          53 ASSEM    7:58:14    12288     768      .0029       .0004     0     0        0        8  --    --    --
 DCMT       0          54 ASSEM    7:58:14    12544     768      .0056      .0005    39     0        0        6  --    --    --
 FACTOTUM   1          55 ASSEM    7:58:14    12288     768      .0029      .0004     0     0        0        8  --    --    --
 DCMT       0          56 ASSEM    7:58:14    12544    1536      .0074      .0042    39   855        0        6  --    --    --
 FACTOTUM   1          57 ASSEM    7:58:14    12288    1536      .0036     2.5303     3     0        0        8  --    --    --
 DCMT       0          58 ASSEM    7:58:16     7296    1536      .0043      .0091    45     0        0        0  --    --    --
 FACTOTUM   1          60 ASSEM    7:58:16    12288    1536      .0029      .0004     0     0        0        8  --    --    --
 DCMT       0          61 ASSEM    7:58:16     7296    1536      .0041      .0013    45     0        0        0  --    --    --
 FACTOTUM   1          62 ASSEM    7:58:16    12288    1536      .0029      .0004     0     0        0        8  --    --    --
 DCMT       0          63 ASSEM    7:58:16     7296    1536      .0044       .0008    45  1280        0        0  --    --    --
 FACTOTUM   1          64 ASSEM    7:58:16    12288    1536      .0040     1.7660     3     0        0        8  --    --    --
 DCMT       0          65 ASSEM    7:58:18     7296    1536      .0044      .0030    45     0        0        0  --    --    --
 FACTOTUM   1          66 ASSEM    7:58:18    12288    1536      .0030      .0006     0     0        0        8  --    --    --
```

PMARPT07 fields

The fields in PMARPT07 are identical to those in report 01. See PMARPT01: Task detail report (see page 125) for detailed field descriptions.

Descriptions of the additional Summary Recap fields at the end of PMARPT07 are shown in the following table. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate.

Field	Description
Total Number of Tasks	Total tasks executed by the user
Total Physical I/O	Total number of physical I/Os performed by the tasks
Total Database Calls	Total number of database calls issued by the tasks
Total Abnormal Terminations	Total number of tasks that terminated abnormally
Total CPU Time	Total CPU time for the above tasks (*hh:mm:ss*)
Average Storage Used	Average number of bytes of variable storage from a DC/UCF storage pool used by the tasks during execution
Average Storage Kept	Average number of bytes of variable storage kept by the tasks at task termination for pseudo-conversational processing; this does not include relocated storage for CA ADS
Average TP I/O Read Length	Average number of bytes read from the terminal during task processing
Average TP I/O Write Length	Average number of bytes written to the terminal during task processing

PMARPT08: Billing group summary report

PMARPT08 contains one summary line for each different task, or each different CA ADS dialog, executed under the billing group. The billing group is shown at the top of the report. The report is followed by a summary recap of billing group activity.

Sample report

```
REPORT NO. 08                                        CA, INC.                                        mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        BILLING GROUP SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM:  mm/dd/yy
   BILLING GROUP:    UNDEFINED

                                        AVG      AVG         AVG       AVG     AVG   AVG      AVG     AVG   AVG   AVG   AVG
      TASK   VER     NUM  TASK   NUM STORAGE  STORAGE       CPU      WAIT      TP    TP      NUM     NUM   NUM   NUM   NUM
      CODE   NUM   TIMES  TYPE TIMES  ACTIVE    KEPT      TIME      TIME    READ WRITE      OF      OF    OF    OF    OF
                    EXEC       ABND                      (SECS)    (SECS)  LNGTH LNGTH     I/O    DBCLS  LVLS DBLVLS BUFS

     B          0       1 ASSEM          9856       0      .0051     .5961     0     0       2       13   --    --    --
     BOM        1      12 ADS/O         30720   17109      .0153     .3391     6   727       7       92    0     0     1
     BYE        0       1 ASSEM          9856       0      .0030     .0414     0     0       1       17   --    --    --
     CAP        1       7 ADS/O         41179   13769      .0240     .5578     7   761      11      152    0     0     1
     CAR        1      13 ADS/O         41945   16423      .0196     .3977     6   949      10      115    0     0     1
     CAS        1      37 ADS/O         33218   11537      .0405     .5644     5  1023      11      166    0     1     0
     CASCAS     1       6 ADS/O         32576   11776      .0262     .7107     5   788      14      145    0     0     1
     CCC        1       7 ADS/O         54254   18341      .0229     .3437     7   755      10      194    0     0     1
     CGL        1      13 ADS/O         33398   17388      .0196     .2833     7   794      12      107    0     0     1
     CLIST      0       1 ASSEM         18176     640      .0096    2.0227    20     0       4       29   --    --    --
     CLOD       0       1 UNDEF         25088       0      .0247    2.2841     0     0       5      221   --    --    --
     COE        1      13 ADS/O         24930   17290      .0126     .1365     5   837       4       58    1     0     1
     CPRD       1      11 ADS/O         42519   16547      .0198     .3655     6   838      10      125    1     0     1
     CPRO       1      11 ADS/O         45452   16593      .0172     .1825     6   896       7      107    1     0     1
     CPRS       1      12 ADS/O         36597   17739      .0142     .1443     5   887       4       74    1     0     1
     CPRV       1       9 ADS/O         35584   15986      .0142     .1114     7   864       4       79    1     0     1
     DCMT       0       7 ASSEM         13184   15013      .0063     .4919    19   162       2       11   --    --    --
     DCUF       0       8 ASSEM         10752    3552      .0031     .1663    22     0       2        6   --    --    --
     FACTOTUM   1      78 ASSEM          1971    9849      .0005     .0444    29    84       0        1   --    --    --
     IDD        0      30 ASSEM     2    56508   68629     1.0281   43.6643    35   839    1234     1124   --    --    --
     INV        1      13 ADS/O         29588   15931      .0118     .1399     5   798       4       56    0     0     1
     MPS        1      10 ADS/O         52659   15962      .0224     .3436     9  1013       8      142    0     0     1
     MRP        1      10 ADS/O         37914   15616      .0166     .1704     6   819       5       86    0     0     1
     OLP        0       6 ASSEM         13568   11392      .5986    13.5025    10  1147     745     3699   --    --    --
     OLQ        0      25 ASSEM     2    61322    8443      .1381     7.1972    57   736     201      230   --    --    --
     OPER       0       9 ASSEM         12004   15801      .0958   519.6225    78  3163       2        7   --    --    --
     PMAM       0       1 ASSEM         16512    6144      .0133     .7543    10   683       7       17   --    --    --
     PMIM       0       9 ASSEM         19172   15317      .0101     .4763    10  1153       4       28   --    --    --
     PMRM       0       2 ASSEM         34368    5760      .0321   52.2110    36  2724       7       54   --    --    --
     PMWNDRVR   1     187 ASSEM         27220   35579      .0043     .2074     3  1714       0       11   --    --    --
     QUED       0       1 ASSEM          6656       0     1.0723   43.5960     0     0    2008       39   --    --    --
     RHDCSTTS   0       4 ASSEM         11776       0      .0593    2.3894     0     0       8       32   --    --    --
     S          0       3 ASSEM         10752       0      .0107     .6712    20     0      11       38   --    --    --
     SDEL       0       1 UNDEF         19328       0      .0070    2.4336     0     0       2       50   --    --    --
     SFC        1      11 ADS/O         33699   17001      .0159     .2957     4   819       7       97    0     0     1
     SIGNON     0       1 ASSEM         11520     768      .0159    3.7168    46    96      14       69   --    --    --
     USGADEL    1       1 UNDEF         17536       0      .0179   44.3700     0     0       2       44   --    --    --
     USGAFIX    1       1 UNDEF         17536       0      .0157    2.7038     0     0       1       44   --    --    --
*** SUMMARY RECAP ***     FOR BILLING GROUP:    UNDEFINED              FOR DC SYSTEM VERSION #:   56 ON  6/19/99
               TOTAL NUMBER OF TASKS :              573            AVERAGE STORAGE USED :              28735
               TOTAL PHYSICAL I/O :               50331            AVERAGE STORAGE KEPT :              23064
               TOTAL DATABASE CALLS :             87529            AVERAGE TP I/O READ LENGTH :           14
               TOTAL ABNORMAL TERMINATIONS :          4            AVERAGE TP I/O WRITE LENGTH :        1038
               TOTAL CPU TIME (HH:MM:SS):       0:00:46
```

PMARPT08 fields

The fields in PMARPT08 are identical to those in report 02. See PMARPT02: Task summary report (see page 127) for detailed field descriptions.

Descriptions of the additional Summary Recap fields at the end of PMARPT08 are shown in the following table. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate.

Field	Description
Total Number of Tasks	Total tasks executed by the user
Total Physical I/O	Total number of physical I/Os performed by the tasks
Total Database Calls	Total number of database calls issued by the tasks
Total Abnormal Terminations	Total number of tasks that terminated abnormally
Total CPU Time	Total CPU time for the above tasks (*hh:mm:ss*)
Average Storage Used	Average number of bytes of variable storage from a DC/UCF storage pool used by the tasks during execution
Average Storage Kept	Average number of bytes of variable storage kept by the tasks at task termination for pseudo-conversational processing; this does not include relocated storage for CA ADS
Average TP I/O Read Length	Average number of bytes read from the terminal during task processing
Average TP I/O Write Length	Average number of bytes written to the terminal during task processing

PMARPT09: Abnormal termination detail report

PMARPT09 contains one detail line for every execution of each task or CA ADS dialog that terminated abnormally.

Sample report

```
REPORT NO. 09                                        CA, INC.                                                mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                    ABNORMAL TERMINATION DETAIL REPORT
DC SYSTEM VERSION #:    71          <-------------- YOUR COMPANY NAME ------------->            DATA FROM: mm/dd/yy


                                 TASK
   TASK   VER     TASK     TASK ABEND  MSG ID  START   STORAGE  STORAGE    CPU        WAIT      NUM      NUM    NUM   NUM    NUM
   CODE   NUM     NUM      TYPE  CODE           TIME    ACTIVE    KEPT     TIME       TIME      OF       OF     OF    OF     OF
                                                                          (SECS)     (SECS)    I/O     DBCLS   LVLS DBLVLS BUFS
 SHOWMAP    0          47 ASSEM  D002  081009  3:02:54     6272     768      .1014      1.2446       5       24  --     --     --
 SHOWMAP    0          51 ASSEM  D002  081009  3:03:16     6272     768      .0277       .2153       2       24  --     --     --
 SECXRAY    1          91 ASSEM  D003  027001  3:08:06    19712    4992      .0171       .2949       6       35  --     --     --
 SECXRAY    1          93 ASSEM  D003  027001  3:08:12    19712    4992      .0137       .1846       2       33  --     --     --
```

PMARPT09 fields

The fields in PMARPT09 are similar to those in Report 01. See PMARPT01: Task detail report (see page 125) for detailed field information. The CC (completion code), TP Read Length, and TP Write Length fields shown in Report 01, do not apply here.

The following table describes fields unique to PMARPT09. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate.

Field	Description
Task Abend Code	Four-character task abend code for the task. A task abend can be issued either from within the task or from the DC-UCF system. This is only applicable if a task abend caused the abnormal termination.
Msg Id	Six-character ID of the message that indicates the abnormal status of the executing task.
Sevr Code	Severity code associated with the message ID, in the range 0 through 9.

PMARPT10: Abnormal termination summary report

PMARPT10 contains one summary line for each task or CA ADS dialog that terminated abnormally.

The fields in PMARPT10 are identical to those in Report 02. See PMARPT02: Task summary report (see page 127) for detailed field information.

Sample report

```
REPORT NO. 10                                        CA, INC.                                          mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                    ABNORMAL TERMINATION SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME ------------->          DATA FROM:  mm/dd/yy

                                        AVG      AVG        AVG       AVG     AVG   AVG      AVG     AVG   AVG   AVG   AVG
   TASK   VER     NUM  TASK         NUM STORAGE  STORAGE      CPU      WAIT     TP    TP      NUM     NUM   NUM   NUM   NUM
   CODE   NUM   TIMES  TYPE       TIMES  ACTIVE    KEPT      TIME      TIME   READ WRITE     OF      OF    OF    OF    OF
                EXEC               ABND                    (SECS)    (SECS)  LNGTH LNGTH    I/O    DBCLS  LVLS DBLVLS BUFS

  IDD        0      30 ASSEM          2    56508    68629    1.0281    43.6643     0     0    1234     1124  --    --    --
  OLQ        0      25 ASSEM          2    61322     8443     .1381     7.1972     0     0     201      230  --    --    --
```

PMARPT11: LTERM detail report

PMARPT11 contains one detail line for each task or CA ADS dialog invoked from the logical terminal identified at the top of the report.

The fields in PMARPT11 are identical to those in Report 01. See PMARPT01: Task detail report (see page 125) for detailed field information.

Sample report

```
REPORT NO. 11                                          CA, INC.                                          mm/dd/yy PAGE    2
CA IDMS/PM nn.n    volser                            LTERM DETAIL REPORT
DC SYSTEM VERSION #:    71          <-------------- YOUR COMPANY NAME -------------->            DATA FROM: mm/dd/yy

   LTERM:  LD000000
                                                          CPU       WAIT      TP    TP    NUM      NUM    NUM   NUM   NUM
   TASK   VER     TASK     TASK C  START   STORAGE  STORAGE   TIME      TIME     READ WRITE   OF       OF     OF    OF    OF
   CODE   NUM     NUM      TYPE C   TIME    ACTIVE    KEPT    (SECS)    (SECS)   LNGTH LNGTH   I/O     DBCLS   LVLS DBLVLS BUFS


 QUED       0          18 ASSEM    7:54:11     5760       0      .8927     4.5380     0     0     1002       26  --     --    --
*** SUMMARY RECAP ***     FOR LTERM:     LD000000                    FOR DC SYSTEM VERSION #:   71 ON 30/09/99
               TOTAL NUMBER OF TASKS :                1             AVERAGE STORAGE USED :                5760
               TOTAL PHYSICAL I/O :                1002             AVERAGE STORAGE KEPT :                   0
               TOTAL DATABASE CALLS :                26             AVERAGE TP I/O READ LENGTH :             0
               TOTAL ABNORMAL TERMINATIONS :          0             AVERAGE TP I/O WRITE LENGTH :            0
               TOTAL CPU TIME (HH.MM.SS):       0:00:01
*** SUMMARY RECAP ***     FOR LTERM:     LD000000                       FOR DC SYSTEM VERSION #:   71 ON ALL DATES
               TOTAL NUMBER OF TASKS :                1             AVERAGE STORAGE USED :                5760
               TOTAL PHYSICAL I/O :                1002             AVERAGE STORAGE KEPT :                   0
               TOTAL DATABASE CALLS :                26             AVERAGE TP I/O READ LENGTH :             0
               TOTAL ABNORMAL TERMINATIONS :          0             AVERAGE TP I/O WRITE LENGTH :            0
               TOTAL CPU TIME (HH.MM.SS):       0:00:01
*** SUMMARY RECAP ***     FOR LTERM:     LD000000                       *** TOTALS ***
               TOTAL NUMBER OF TASKS :                1             AVERAGE STORAGE USED :                5760
               TOTAL PHYSICAL I/O :                1002             AVERAGE STORAGE KEPT :                   0
               TOTAL DATABASE CALLS :                26             AVERAGE TP I/O READ LENGTH :             0
               TOTAL ABNORMAL TERMINATIONS :          0             AVERAGE TP I/O WRITE LENGTH :            0
               TOTAL CPU TIME (HH.MM.SS):       0:00:01
```

PMARPT12: LTERM summary report

PMARPT12 contains one summary line for each task or CA ADS dialog invoked from the logical terminal. The summary line is identified at the top of the report.

The fields in PMARPT12 are identical to those in Report 02. See PMARPT02: Task summary report (see page 127) for detailed field information.

Sample report

```
REPORT NO. 12                                        CA, INC.                                        mm/dd/yy PAGE    9
CA IDMS/PM nn.n    volser                          LTERM SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM:  mm/dd/yy
   LTERM:  LV56002

                                      AVG      AVG        AVG       AVG     AVG   AVG      AVG     AVG   AVG   AVG   AVG
     TASK   VER     NUM  TASK    NUM STORAGE  STORAGE      CPU      WAIT     TP    TP      NUM     NUM   NUM   NUM   NUM
     CODE   NUM   TIMES  TYPE  TIMES  ACTIVE    KEPT      TIME      TIME   READ WRITE      OF      OF    OF    OF    OF
                  EXEC         ABND                     (SECS)    (SECS)  LNGTH LNGTH     I/O    DBCLS  LVLS DBLVLS BUFS
    B          0      1 ASSEM            9856       0     .0051     .5961     0     0       2       13  --    --    --
    BYE        0      1 ASSEM            9856       0     .0030     .0414     0     0       1       17  --    --    --
    DCMT       0      1 ASSEM           10624   94080     .0040     .3104    21     0       0        6  --    --    --
    FACTOTUM   1     17 ASSEM            1114   30328     .0007     .1713   131   124       0        2  --    --    --
    IDD        0     27 ASSEM       2   57064   75103    1.1287   47.4342    36   873    1355     1229  --    --    --
    OPER       0      2 ASSEM           16000   47296     .0388  150.0503    86 -5178       9       20  --    --    --
    PMAM       0      1 ASSEM           16512    6144     .0133     .7543    10   683       7       17  --    --    --
    PMIM       0      2 ASSEM           17408   10624     .0079     .1799    10  1153       4       14  --    --    --
    PMRM       0      1 ASSEM           26112     512     .0279   86.6013    46  3325       2       12  --    --    --
    PMWNDRVR   1    145 ASSEM           28458   40575     .0038     .1578     4  1739       0        6  --    --    --
    S          0      1 ASSEM           10752       0     .0110    1.2497    23     0      13       35  --    --    --
    SIGNON     0      1 ASSEM           11520     768     .0159    3.7168    46    96      14       69  --    --    --
*** SUMMARY RECAP ***     FOR LTERM:     LV56002                    FOR DC SYSTEM VERSION #:   56 ON  6/19/99
               TOTAL NUMBER OF TASKS :              200             AVERAGE STORAGE USED :               29241
               TOTAL PHYSICAL I/O :               36667             AVERAGE STORAGE KEPT :               43220
               TOTAL DATABASE CALLS :             34346             AVERAGE TP I/O READ LENGTH :            20
               TOTAL ABNORMAL TERMINATIONS :          2             AVERAGE TP I/O WRITE LENGTH :         1370
               TOTAL CPU TIME (HH:MM:SS):        0:00:31
*** SUMMARY RECAP ***     FOR LTERM:     LV56002                       FOR DC SYSTEM VERSION #:   56 ON ALL DATES
               TOTAL NUMBER OF TASKS :              200             AVERAGE STORAGE USED :               29241
               TOTAL PHYSICAL I/O :               36667             AVERAGE STORAGE KEPT :               43220
               TOTAL DATABASE CALLS :             34346             AVERAGE TP I/O READ LENGTH :            20
               TOTAL ABNORMAL TERMINATIONS :          2             AVERAGE TP I/O WRITE LENGTH :         1370
               TOTAL CPU TIME (HH:MM:SS):        0:00:31
*** SUMMARY RECAP ***     FOR LTERM:     LV56002                       *** TOTALS ***
               TOTAL NUMBER OF TASKS :              200             AVERAGE STORAGE USED :               29241
               TOTAL PHYSICAL I/O :               36667             AVERAGE STORAGE KEPT :               43220
               TOTAL DATABASE CALLS :             34346             AVERAGE TP I/O READ LENGTH :            20
               TOTAL ABNORMAL TERMINATIONS :          2             AVERAGE TP I/O WRITE LENGTH :         1370
```

PMARPT13: PTERM detail report

PMARPT13 contains one detail line for each task or CA ADS dialog invoked from the physical terminal. The detail line is identified at the top of the report.

The fields in PMARPT13 are identical to those in Report 01. See PMARPT01: Task detail report (see page 125) for detailed field information.

Sample report

```
REPORT NO. 13                                          CA, INC.                                                mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                                PTERM DETAIL REPORT
DC SYSTEM VERSION #:    71          <-------------- YOUR COMPANY NAME ------------->            DATA FROM: mm/dd/yy

   PTERM:  NONTERM
                                                                  CPU       WAIT      TP    TP    NUM      NUM    NUM   NUM   NUM
   TASK   VER     TASK     TASK C  START   STORAGE  STORAGE     TIME      TIME     READ WRITE    OF       OF     OF    OF    OF
   CODE   NUM     NUM      TYPE C   TIME    ACTIVE    KEPT    (SECS)    (SECS)   LNGTH LNGTH   I/O     DBCLS   LVLS DBLVLS BUFS


 QUED       0          18 ASSEM    7:54:11     5760       0      .8927     4.5380     0     0     1002       26  --    --    --
 CLOD       0          19 ASSEM    7:54:11    13056       0      .0552      .3059     0     0       10       94  --    --    --
*** SUMMARY RECAP ***     FOR PTERM:     NONTERM                      FOR DC SYSTEM VERSION #:   71 ON 30/09/99
               TOTAL NUMBER OF TASKS :                2              AVERAGE STORAGE USED :                9408
               TOTAL PHYSICAL I/O :                1012              AVERAGE STORAGE KEPT :                   0
               TOTAL DATABASE CALLS :               120              AVERAGE TP I/O READ LENGTH :             0
               TOTAL ABNORMAL TERMINATIONS :          0              AVERAGE TP I/O WRITE LENGTH :            0
               TOTAL CPU TIME (HH.MM.SS):       0:00:01
*** SUMMARY RECAP ***     FOR PTERM:     NONTERM                         FOR DC SYSTEM VERSION #:   71 ON ALL DATES
               TOTAL NUMBER OF TASKS :                2              AVERAGE STORAGE USED :                9408
               TOTAL PHYSICAL I/O :                1012              AVERAGE STORAGE KEPT :                   0
               TOTAL DATABASE CALLS :               120              AVERAGE TP I/O READ LENGTH :             0
               TOTAL ABNORMAL TERMINATIONS :          0              AVERAGE TP I/O WRITE LENGTH :            0
               TOTAL CPU TIME (HH.MM.SS):       0:00:01
*** SUMMARY RECAP ***     FOR PTERM:     NONTERM                         *** TOTALS ***
               TOTAL NUMBER OF TASKS :                2              AVERAGE STORAGE USED :                9408
               TOTAL PHYSICAL I/O :                1012              AVERAGE STORAGE KEPT :                   0
               TOTAL DATABASE CALLS :               120              AVERAGE TP I/O READ LENGTH :             0
               TOTAL ABNORMAL TERMINATIONS :          0              AVERAGE TP I/O WRITE LENGTH :            0
               TOTAL CPU TIME (HH.MM.SS):       0:00:01
```

PMARPT14: PTERM summary report

PMARPT14 contains one summary line for each task or CA ADS dialog invoked from the physical terminal. The summary line is identified at the top of the report.

The fields in PMARPT14 are identical to those in Report 02. See PMARPT02: Task summary report (see page 127) for detailed field information.

Sample report

```
REPORT NO. 14                                        CA, INC.                                        mm/dd/yy PAGE    5
CA IDMS/PM nn.n    volser                          PTERM SUMMARY REPORT
DC SYSTEM VERSION #:    56          <-------------- YOUR COMPANY NAME -------------->          DATA FROM:  mm/dd/yy
   PTERM:  PV56002
                                        AVG      AVG        AVG       AVG     AVG   AVG      AVG     AVG   AVG   AVG   AVG
     TASK   VER     NUM  TASK    NUM  STORAGE  STORAGE      CPU      WAIT     TP    TP      NUM     NUM   NUM   NUM   NUM
     CODE   NUM   TIMES  TYPE  TIMES   ACTIVE     KEPT     TIME      TIME   READ WRITE      OF      OF    OF    OF    OF
                  EXEC         ABND                      (SECS)    (SECS)  LNGTH LNGTH     I/O    DBCLS  LVLS DBLVLS BUFS
    B          0      1 ASSEM            9856        0     .0051     .5961     0     0       2       13  --    --    --
    BYE        0      1 ASSEM            9856        0     .0030     .0414     0     0       1       17  --    --    --
    DCMT       0      1 ASSEM           10624    94080     .0040     .3104    21     0       0        6  --    --    --
    FACTOTUM   1     17 ASSEM            1114    30328     .0007     .1713   131   124       0        2  --    --    --
    IDD        0     27 ASSEM       2   57064    75103    1.1287   47.4342    36   873    1355     1229  --    --    --
    OPER       0      2 ASSEM           16000    47296     .0388  150.0503    86 -5178       9       20  --    --    --
    PMAM       0      1 ASSEM           16512     6144     .0133     .7543    10   683       7       17  --    --    --
    PMIM       0      2 ASSEM           17408    10624     .0079     .1799    10  1153       4       14  --    --    --
    PMRM       0      1 ASSEM           26112      512     .0279    86.6013    46  3325       2       12  --    --    --
    PMWNDRVR   1    145 ASSEM           28458    40575     .0038     .1578     4  1739       0        6  --    --    --
    S          0      1 ASSEM           10752        0     .0110    1.2497    23     0      13       35  --    --    --
    SIGNON     0      1 ASSEM           11520      768     .0159    3.7168    46    96      14       69  --    --    --
*** SUMMARY RECAP ***     FOR PTERM:     PV56002                    FOR DC SYSTEM VERSION #:   56 ON  6/19/99
               TOTAL NUMBER OF TASKS :              200             AVERAGE STORAGE USED :               29241
               TOTAL PHYSICAL I/O :               36667             AVERAGE STORAGE KEPT :               43220
               TOTAL DATABASE CALLS :             34346             AVERAGE TP I/O READ LENGTH :            20
               TOTAL ABNORMAL TERMINATIONS :          2             AVERAGE TP I/O WRITE LENGTH :         1370
               TOTAL CPU TIME (HH:MM:SS):        0:00:31
*** SUMMARY RECAP ***     FOR PTERM:     PV56002                       FOR DC SYSTEM VERSION #:   56 ON ALL DATES
               TOTAL NUMBER OF TASKS :              200             AVERAGE STORAGE USED :               29241
               TOTAL PHYSICAL I/O :               36667             AVERAGE STORAGE KEPT :               43220
               TOTAL DATABASE CALLS :             34346             AVERAGE TP I/O READ LENGTH :            20
               TOTAL ABNORMAL TERMINATIONS :          2             AVERAGE TP I/O WRITE LENGTH :         1370
               TOTAL CPU TIME (HH:MM:SS):        0:00:31
*** SUMMARY RECAP ***     FOR PTERM:     PV56002                       *** TOTALS ***
               TOTAL NUMBER OF TASKS :              200             AVERAGE STORAGE USED :               29241
               TOTAL PHYSICAL I/O :               36667             AVERAGE STORAGE KEPT :               43220
               TOTAL DATABASE CALLS :             34346             AVERAGE TP I/O READ LENGTH :            20
               TOTAL ABNORMAL TERMINATIONS :          2             AVERAGE TP I/O WRITE LENGTH :         1370
```

PMARPT15: System detail report

PMARPT15 contains one detail line for each DC/UCF system internal or driver task (DBRC, MASTER, line driver, print driver, and so on).

The fields in PMARPT15 are identical to those in Report 01. See PMARPT01: Task detail report (see page 125) for detailed field information.

Sample report

```
REPORT NO. 15                                       CA, INC.                                        mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                   SYSTEM TASK DETAIL  REPORT
DC SYSTEM VERSION #:    71          <------------- YOUR COMPANY NAME ------------->           DATA FROM: mm/dd/yy

                                                                          CPU          WAIT       TP    TP     NUM       NUM
     TASK     VER        TASK      TASK  C   START    STORAGE   STORAGE   TIME         TIME      READ  WRITE    OF        OF
     CODE     NUM        NUM       TYPE  C    TIME    ACTIVE      KEPT    (SECS)       (SECS)    LNGTH  LNGTH   I/O      DBCLS
   MASTER      0            0   SYSTM     11:07:52         0      6784    2.9463        .0000   1481     0       22       226
   DBRC        0            1   SYSTM     11:07:52         0      1664    1.1223  40,042.1579      0     0       22         0
   RU DRVR     0            2   SYSTM     11:07:52         0         0     .0127     957.4157      0     0        0        10
   RU DRVR     0            3   SYSTM     11:07:52         0         0     .0144     956.9878      0     0        0        10
   RU DRVR     0            4   SYSTM     11:07:52         0         0     .0042     956.9960      0     0        0        10
   RU DRVR     0            5   SYSTM     11:07:52         0         0     .0103     956.7636      0     0        0        10
   RU DRVR     0            6   SYSTM     11:07:52         0         0     .0122     956.3277      0     0        0        10
   RU DRVR     0            7   SYSTM     11:07:52         0         0     .0120     955.8511      0     0        0        10
   LOG DRVR    0            8   SYSTM     11:07:52         0      2688     .1080  40,070.1053      0     0        0         3
   LOG DRVR    0            9   SYSTM     11:07:52         0      2688     .0578  40,071.5117      0     0        0         3
   LOG DRVR    0           10   SYSTM     11:07:52         0      2688     .0155  40,071.5236      0     0        0         3
   PM I/O      0           11   SYSTM     11:07:52         0     46848     .2834  40,071.6560      0     0        0         0
   RHDCDEAD    0           13   SYSTM     11:07:52         0         0     .2568     953.1815      0     0        0         0
   PM ROLL     0           12   SYSTM     11:07:52         0         0     .0107     955.6607      0     0        0         0
   UCFLINE     0           14   SYSTM     11:07:55         0         0     .0177     949.5286      0     0        1         6
   VTAM71      0           15   SYSTM     11:07:55         0         0     .1965     949.7334      0     0        0         8
   DDSVTAM     0           16   SYSTM     11:07:58         0         0     .7569     945.9782      0     0        0         6
   CCILINE     0           17   SYSTM     11:08:02         0         0     .0295     942.9384      0     0        0         6
   HELOT       0           48   SYSTM     11:12:48      9344         0     .0171      57.9796      0     0        0         0
   HELOT       0           97   SYSTM     11:15:34      1664         0     .0007        .0984      0     0        0         0
   HELOT       0          105   SYSTM     11:16:03      9344         0     .0186      51.4737      0     0        0         0
   HELOT       0          122   SYSTM     11:16:56      5888         0     .0374      58.8486      0     0        0         0
   HELOT       0          164   SYSTM     11:19:12      7040         0     .0159      43.0944      0     0        0         0
```

PMARPT16: System summary report

PMARPT16 contains one summary line for each DC/UCF system internal or driver task (DBRC, MASTER, line driver, print driver, and so on).

The fields in PMARPT16 are identical to those in Report 02. See PMARPT02: Task summary report (see page 127) for detailed field information.

Sample report

```
REPORT NO. 16                                               CA, INC.                                       mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                             SYSTEM TASK SUMMARY REPORT
DC SYSTEM VERSION #:    56            <------------- YOUR COMPANY NAME ------------->            DATA FROM:  mm/dd/yy

                                                 AVG      AVG         AVG          AVG      AVG    AVG       AVG       AVG
         TASK    VER      NUM  TASK    NUM  STORAGE   STORAGE         CPU         WAIT       TP     TP       NUM       NUM
         CODE    NUM    TIMES  TYPE  TIMES   ACTIVE      KEPT        TIME         TIME     READ  WRITE        OF        OF
                         EXEC         ABND                         (SECS)       (SECS)    LNGTH  LNGTH       I/O     DBCLS

       CCI56       0        1  SYSTM                0        0      .0146  14,751.9287        0      0         0         6
       DBRC        0        1  SYSTM                0      896     1.2293  53,819.5837        0      0       357         0
       JESRDR      0        1  SYSTM                0        0      .0083  14,751.8655        0      0         0         9
       LOG DRVR    0        3  SYSTM                0     1920      .1622  53,895.8342        0      0         0         3
       MASTER      0        1  SYSTM                0      896     1.2618        .0000     4938      0        25       232
       PM I/O      0        1  SYSTM                0   225152     1.5327  53,896.0931        0      0         0         0
       PM ROLL     0        1  SYSTM                0        0      .0416  14,754.7059        0      0         0         0
       PRINT56     0        1  SYSTM                0        0      .0062  14,751.9664        0      0         0         9
       PRNTTASK    0        1  SYSTM                0        0      .0004  14,751.7031        0      0         0         0
       RHDCDEAD    0        1  SYSTM                0        0      .6674  14,752.6397        0      0         0         0
       RU DRVR     0        6  SYSTM                0        0      .0025  14,754.9674        0      0         0         7
       UCF56       0        1  SYSTM                0        0      .0044  14,751.9453        0      0         0         9
       VTAM56      0        1  SYSTM                0        0      .5764  14,751.4013        0      0         1         6
```

PMARPT17: Database detail report

PMARPT17 contains one line for each task showing database statistics.

Sample report

```
REPORT NO. 17                                             CA, INC.                                         mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                          DATABASE DETAIL REPORT
DC SYSTEM VERSION #:    71              <------------- YOUR COMPANY NAME ------------->              DATA FROM: mm/dd/yy

                                         RECS                                      CALC    CALC    VIA     VIA            SELECT  UPDATE
    TASK     VER     TASK   TASK         CURR    RECS    PAGES   PAGES   PAGES     RECS    RECS    RECS    RECS    FRAGS  LOCKS   LOCKS
    CODE     NUM      NUM   TYPE          OF     RQSTD   RQSTD   READ    WRITTEN    NO     WITH     NO     WITH   STORED   OF      OF
                                          R/U                                      OFLOW   OFLOW   OFLOW   OFLOW           R/U     R/U

   QUED      0         18 ASSEM           3       7    1005    1002       0        0       0       0       0       0       0       0
   CLOD      0         19 ASSEM          23      50      26      10       0        0       0       0       0       0       0       0
   FACTOTUM  1         20 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         21 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   S         0         22 ASSEM           3       7       6       3       0        0       0       0       0       0       0       0
   FACTOTUM  1         23 ASSEM           0       1       1       1       0        0       0       0       0       0       0       0
   C         0         24 ASSEM           3       7       4       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         25 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         26 ASSEM           3       4       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         27 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         28 ASSEM           3       4       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         29 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         30 ASSEM           3       5       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         31 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         32 ASSEM           3       4       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         33 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         34 ASSEM           3       7       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         35 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         36 ASSEM           3       7       3       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         37 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         38 ASSEM           3       7       3       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         39 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         40 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         41 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   C         0         42 ASSEM           3       9       4       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         43 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         44 ASSEM           3       5       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         45 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         46 ASSEM           3       4       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         47 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         48 ASSEM           3       4       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         49 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         50 ASSEM           3       5       3       1       0        0       0       0       0       0       0       0
   FACTOTUM  1         51 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         52 ASSEM           3       7       3       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         53 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         54 ASSEM           3       7       3       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         55 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         56 ASSEM           3       7       3       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         57 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         58 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   HELOT     0         59 SYSTM           0       0       0       2       0        0       0       0       0       0       0       0
   FACTOTUM  1         60 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         61 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         62 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         63 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         64 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
   DCMT      0         65 ASSEM           0       0       0       0       0        0       0       0       0       0       0       0
   FACTOTUM  1         66 ASSEM           2       2       2       0       0        0       0       0       0       0       0       0
```

PMARPT17 fields

Field	Description
Task Code	Task code or CA ADS dialog name

Field	Description
Ver Num	Version number of the level-1 program executed for the task
Task Num	Sequential number assigned to the task at task initiation (also known as the task ID)
Task Type	Source language for the level-1 program for the task (ERUS for an external request unit)
Recs Curr of R/U	Number of records that became current of run unit as a result of FIND, STORE, or OBTAIN requests
Recs Rqstd	Number of records retrieved from the database as a result of processing requests issued by the run unit
Pages Rqstd	Number of pages requested by the DBMS for the run unit
Pages Read	Number of pages physically read on behalf of the run unit
Pages Written	Number of physical writes that occurred while the task was in control
CALC Recs No Oflow	Number of records stored using the CALC location mode that were stored on the target page
CALC Recs With Oflow	Number of records stored using the CALC location mode that were stored on a page other than the target page
VIA Recs No Oflow	Number of records stored using the VIA location mode that were stored on the target page
VIA Recs With Oflow	Number of records stored using the VIA location mode that were stored on a page other than the target page
Frags Stored	Number of record fragments stored
Select Locks Of R/U	Number of select locks held by the task
Update Locks Of R/U	Number of update locks held by the task

PMARPT18: Database summary report

PMARPT18 contains one summary line for each task type.

The fields in this report are the averages, sorted by task, of the fields in PMARPT17. See PMARPT17: Database detail report (see page 145) for detailed field information.

Sample report

REPORT NO. 18 CA, INC. mm/dd/yy PAGE 1
CA IDMS/PM nn.n volser DATABASE SUMMARY REPORT
DC SYSTEM VERSION #: 56 <-------------- YOUR COMPANY NAME --------------> DATA FROM: mm/dd/yy

TASK CODE	VER NUM	NUM TIMES EXEC	TASK TYPE	AVG RECS CURR OF R/U	AVG RECS RQSTD	AVG PAGES RQSTD	AVG PAGES READ	AVG PAGES WRITTEN	AVG CALC NO OFLOW	AVG CALC WITH OFLOW	AVG VIA NO OFLOW	AVG VIA WITH OFLOW	AVG FRAGS STORED	AVG SELECT LOCKS OF R/U	AVG UPDATE LOCKS OF R/U
B	0	1	ASSEM	5	17	13	2	0	0	0	0	0	0	0	0
BOM	1	12	ADS/O	43	65	51	7	0	0	0	0	0	0	0	0
BYE	0	1	ASSEM	5	17	13	1	0	0	0	0	0	0	0	0
CAP	1	7	ADS/O	93	116	103	11	0	0	0	0	0	0	0	0
CAR	1	13	ADS/O	66	82	73	10	0	0	0	0	0	0	0	0
CAS	1	37	ADS/O	28	62	51	11	0	0	0	0	0	0	0	0
CASCAS	1	6	ADS/O	47	81	67	14	0	0	0	0	0	0	0	0
CCC	1	7	ADS/O	111	147	119	10	0	0	0	0	0	0	0	0
CCI56	0	1	SYSTM	3	5	3	0	0	0	0	0	0	0	0	0
CGL	1	13	ADS/O	35	57	47	12	0	0	0	0	0	0	0	0
CLIST	0	1	ASSEM	7	39	25	4	0	0	0	0	0	0	0	0
CLOD	0	1	UNDEF	48	131	60	5	0	0	0	0	0	0	0	0
COE	1	13	ADS/O	24	53	31	4	0	0	0	0	0	0	0	0
CPRD	1	11	ADS/O	63	98	70	10	0	0	0	0	0	0	0	0
CPRO	1	11	ADS/O	41	78	49	7	0	0	0	0	0	0	0	0
CPRS	1	12	ADS/O	22	67	29	4	0	0	0	0	0	0	0	0
CPRV	1	9	ADS/O	32	71	38	4	0	0	0	0	0	0	0	0
DBRC	0	1	SYSTM	0	0	0	357	0	0	0	0	0	0	0	0
DCMT	0	7	ASSEM	4	11	6	2	0	0	0	0	0	0	0	0
DCUF	0	8	ASSEM	2	13	4	2	0	0	0	0	0	0	0	0
FACTOTUM	1	78	ASSEM	0	1	0	0	0	0	0	0	0	0	0	0
IDD	0	30	ASSEM	1094	1407	1249	1234	0	0	0	0	0	0	0	0
INV	1	13	ADS/O	21	54	28	4	0	0	0	0	0	0	0	0
JESRDR	0	1	SYSTM	3	5	3	0	0	0	0	0	0	0	0	0
LOG DRVR	0	3	SYSTM	0	0	0	0	0	0	0	0	0	0	1	0
MASTER	0	1	SYSTM	108	157	115	25	0	0	0	0	0	0	0	0
MPS	1	10	ADS/O	71	108	79	8	0	0	0	0	0	0	0	0
MRP	1	10	ADS/O	27	66	36	5	0	0	0	0	0	0	0	0
OLP	0	6	ASSEM	3690	3702	4430	745	0	0	0	0	0	0	0	0
OLQ	0	25	ASSEM	126	219	345	199	2	1	0	3	0	0	0	0
OPER	0	9	ASSEM	3	11	5	2	0	0	0	0	0	0	0	0
PM I/O	0	1	SYSTM	0	0	0	0	0	0	0	0	0	0	0	0
PM ROLL	0	1	SYSTM	0	0	0	0	0	0	0	0	0	0	0	0
PMAM	0	1	ASSEM	2	15	12	7	0	0	0	0	0	0	0	0
PMIM	0	9	ASSEM	1	16	7	4	0	0	0	0	0	0	0	0
PMRM	0	2	ASSEM	4	19	14	7	0	0	0	0	0	0	0	0
PMWNDRVR	1	187	ASSEM	0	2	2	0	0	0	0	0	0	0	0	0
PRINT56	0	1	SYSTM	3	5	3	0	0	0	0	0	0	0	0	0
PRNTTASK	0	1	SYSTM	0	0	0	0	0	0	0	0	0	0	0	0
QUED	0	1	ASSEM	7	32	2016	2008	0	0	0	0	0	0	0	0
RHDCDEAD	0	1	SYSTM	0	0	0	0	0	0	0	0	0	0	0	0
RHDCSTTS	0	4	ASSEM	5	31	17	8	0	0	0	0	0	0	0	0
RU DRVR	0	6	SYSTM	0	0	0	0	0	0	0	0	0	0	0	0
S	0	3	ASSEM	8	38	23	11	0	0	0	0	0	0	0	0
SDEL	0	1	UNDEF	7	34	18	2	0	0	0	0	0	0	0	0
SFC	1	11	ADS/O	42	80	51	7	0	0	0	0	0	0	0	0
SIGNON	0	1	ASSEM	18	70	37	14	0	0	0	0	0	0	0	0
UCF56	0	1	SYSTM	3	5	3	0	0	0	0	0	0	0	0	0
USGADEL	1	1	UNDEF	4	30	16	2	0	0	0	0	0	0	0	0

PMARPT19: DC statistics detail report

PMARPT19 contains one line for each task showing DC/UCF system statistics.

Sample report

```
REPORT NO. 19                                          CA, INC.                                       mm/dd/yy PAGE     1
CA IDMS/PM nn.n     volser                    DC STATISTICS DETAIL REPORT
DC SYSTEM VERSION #:     71          <------------- YOUR COMPANY NAME ------------->             DATA FROM: mm/dd/yy

   TASK     VER      TASK   DC   PGMS   PGMS     PGM     GET    FREE  STORAGE STORAGE   GET     PUT   DELETE   GET    PUT  DELETE
   CODE     NUM       NUM  PRTY CALLED LOADED   SPACE  STORAGE STORAGE ACTIVE   KEPT  SCRATCH SCRATCH SCRATCH QUEUE  QUEUE  QUEUE
                                                 USED    RQSTS   RQSTS                 RQSTS   RQSTS   RQSTS  RQSTS  RQSTS  RQSTS

  QUED       0         18  250     1      1        0      14      11     5760      0      0       0       0      0      0      0
  CLOD       0         19  250     6      2     6704      44      41    13056      0      0       0       0      0      0      0
  FACTOTUM   1         20  251     0      0        0       5       2        0      0      0       0       0      0      0      0
  FACTOTUM   1         21  251     0      0        0       3       1        0      0      0       0       0      0      0      0
  S          0         22  100     1      1        0      16      13     9600      0      0       0       0      0      0      0
  FACTOTUM   1         23  251     0      0        0       3       3      256    512      0       0       0      1      0      0
  C          0         24  100     4      1    20280      15       9    17280    768      0       0       0      0      0      0
  FACTOTUM   1         25  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         26  225     2      2    24360      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         27  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         28  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         29  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         30  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         31  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         32  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         33  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         34  225     2      1    24360      15      11    12544    768      0       0       0      0      0      0
  FACTOTUM   1         35  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         36  225     2      0    39600      15      11    12544    768      0       0       0      0      0      0
  FACTOTUM   1         37  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         38  225     2      0    39600      17      11    12544   1536      0       1       0      0      0      0
  FACTOTUM   1         39  251     3      0    17672       5       6    12032   1536      0       0       0      0      0      0
  FACTOTUM   1         40  251     0      0        0       2       0        0   1536      1       1       0      0      0      0
  FACTOTUM   1         41  251     0      0        0       2       4        0    768      1       1       3      0      0      0
  C          0         42  100     4      0    20280      14       9    17024    768      0       0       0      0      0      0
  FACTOTUM   1         43  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         44  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         45  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         46  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         47  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         48  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         49  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         50  225     2      0    29984      14      11     9600    768      0       0       0      0      0      0
  FACTOTUM   1         51  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         52  225     2      0    39600      15      11    12544    768      0       0       0      0      0      0
  FACTOTUM   1         53  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         54  225     2      0    39600      15      11    12544    768      0       0       0      0      0      0
  FACTOTUM   1         55  251     3      0    17672       7       5    12288    768      0       0       0      0      0      0
  DCMT       0         56  225     2      0    39600      17      11    12544   1536      0       1       0      0      0      0
  FACTOTUM   1         57  251     3      0    17672       7       6    12288   1536      0       0       0      0      0      0
  DCMT       0         58  225     1      0    24360      10       8     7296   1536      0       0       0      0      0      0
  HELOT      0         59  200     0      0        0      48      30     8192      0      0       0       0      0      0      0
  FACTOTUM   1         60  251     3      0    17672       7       5    12288   1536      0       0       0      0      0      0
  DCMT       0         61  225     1      0    24360      10       8     7296   1536      0       0       0      0      0      0
  FACTOTUM   1         62  251     3      0    17672       7       5    12288   1536      0       0       0      0      0      0
  DCMT       0         63  225     1      0    24360      11       8     7296   1536      0       1       0      0      0      0
  FACTOTUM   1         64  251     3      0    17672       7       6    12288   1536      0       0       0      0      0      0
  DCMT       0         65  225     1      0    24360      10       8     7296   1536      0       0       0      0      0      0
  FACTOTUM   1         66  251     3      0    17672       7       5    12288   1536      0       0       0      0      0      0
```

PMARPT19 fields

Field	Description
Task Code	Task code or CA ADS dialog name

Field	Description
Ver Num	Version number of the level-1 program executed for the task or CA ADS dialog
Task Num	Sequential number assigned to the task at task initiation (also known as the task ID)
DC Prty	DC/UCF priority assigned to the task
Pgms Called	Number of programs called by the task; includes: ■ LINKs ■ XCTLs ■ Programs called by the system on behalf of the task
Pgms Loaded	Number of programs called that were not present in the program pool and that needed to be loaded
Pgm Space Used	Amount of program-pool space used by the task
Get Storage Rqsts	Number of GET STORAGE (#GETSTG) requests issued by or on behalf of the task
Free Storage Rqsts	Number of FREE STORAGE (#FREESTG) requests issued by or on behalf of the task
Storage Active	High-water mark of storage used by the task; includes all types of storage
Storage Kept	Amount of USER KEPT or SHARED KEPT storage maintained by the DC/UCF system on behalf of the task; such storage can be held across a pseudo-converse; this does not include relocated storage for CA ADS
Get Scratch Rqsts	Number of GET SCRATCH requests issued by or on behalf of the task
Put Scratch Rqsts	Number of PUT SCRATCH requests issued by or on behalf of the task
Delete Scratch Rqsts	Number of DELETE SCRATCH requests issued by or on behalf of the task
Get Queue Rqsts	Number of GET QUEUE requests issued by or on behalf of the task
Put Queue Rqsts	Number of PUT QUEUE requests issued by or on behalf of the task
Delete Queue Rqsts	Number of DELETE QUEUE requests issued by or on behalf of the task

PMARPT20: DC statistics summary report

PMARPT20 contains one line for each task showing DC/UCF system statistics.

The fields contained in this report are averages, by task and task priority, for the fields in PMARPT19. See PMARPT19: DC statistics detail report (see page 148) for detailed field information.

Sample report

REPORT NO. 20 CA, INC. mm/dd/yy PAGE 1
CA IDMS/PM nn.n volser DC STATISTICS SUMMARY REPORT
DC SYSTEM VERSION #: 56 <-------------- YOUR COMPANY NAME --------------> DATA FROM: mm/dd/yy

TASK CODE	VER NUM	NUM TIMES EXEC	DC PRTY	AVG PGMS CALLED	AVG PGMS LOADED	AVG PGM SPACE USED	AVG GET STORAGE RQSTS	AVG FREE STORAGE RQSTS	AVG STORAGE ACTIVE	AVG STORAGE KEPT	AVG GET SCRATCH RQSTS	AVG PUT SCRATCH RQSTS	AVG DELETE SCRATCH RQSTS	AVG GET QUEUE RQSTS	AVG PUT QUEUE RQSTS	AVG DELETE QUEUE RQSTS
B	0	1	100	1	1	0	15	28	9856	0	0	0	14	0	0	0
BOM	1	12	100	18	1	176046	30	25	30720	17109	0	0	0	0	0	0
BYE	0	1	100	1	0	520	15	14	9856	0	0	0	0	0	0	0
CAP	1	7	100	19	1	245543	34	28	41179	13769	1	1	1	0	0	0
CAR	1	13	100	21	1	217508	27	22	41945	16423	1	1	1	0	0	0
CAS	1	37	100	27	1	174759	78	73	33218	11537	0	0	0	0	0	0
CASCAS	1	6	100	25	2	160192	57	51	32576	11776	0	0	0	0	0	0
CCC	1	7	100	18	1	237961	31	26	54254	18341	0	0	0	0	0	0
CCI56	0	1	254	1	0	1528	15	6	0	0	0	0	0	0	0	0
CGL	1	13	100	21	1	176378	48	43	33398	17388	0	0	0	0	0	0
CLIST	0	1	100	4	1	19808	25	17	18176	640	0	0	0	0	0	0
CLOD	0	1	250	25	2	11632	122	119	25088	0	0	0	0	0	0	0
COE	1	13	100	20	1	188518	26	22	24930	17290	0	0	0	0	0	0
CPRD	1	11	100	21	1	194430	30	25	42519	16547	0	0	0	0	0	0
CPRO	1	11	100	21	1	232787	30	25	45452	16593	0	0	0	0	0	0
CPRS	1	12	100	21	0	194353	29	24	36597	17739	0	0	0	0	0	0
CPRV	1	9	100	21	0	186556	31	26	35584	15986	0	0	0	0	0	0
DBRC	0	1	255	0	0	0	353	289	0	896	0	0	0	0	0	0
DCMT	0	7	225	2	1	22583	20	13	13184	15013	0	0	0	0	0	0
DCUF	0	8	100	2	0	25634	14	8	10752	3552	0	0	0	0	0	0
FACTOTUM	1	78	251	0	0	969	3	2	1971	9849	0	0	0	0	0	0
IDD	0	30	100	12	1	116922	26	23	56508	68629	16	74	71	0	0	0
INV	1	13	100	18	0	183251	26	21	29588	15931	0	0	0	0	0	0
JESRDR	0	1	254	4	0	6256	15	11	0	0	0	0	0	0	0	0
LOG DRVR	0	3	253	1	0	0	7	1	0	1920	0	0	0	0	0	0
MASTER	0	1	255	19	10	0	323	269	0	896	0	0	0	1	0	0
MPS	1	10	100	22	1	286530	29	24	52659	15962	1	1	1	0	0	0
MRP	1	10	100	23	1	214511	36	31	37914	15616	1	1	1	0	0	0
OLP	0	6	100	4	0	14773	13	11	13568	11392	0	0	0	0	0	0
OLQ	0	25	100	21	1	201991	71	56	61322	8443	8	14	11	2	2	2
OPER	0	9	100	2	0	25977	221	116	12004	15801	0	0	0	0	0	0
PM I/O	0	1	253	2	2	0	41	594	0	225152	140	275	55	0	0	0
PM ROLL	0	1	253	0	0	0	28	26	0	0	0	0	0	0	0	0
PMAM	0	1	100	9	3	34776	25	14	16512	6144	0	0	0	0	0	0
PMIM	0	9	100	12	1	39740	32	21	19172	15317	0	0	0	0	0	0
PMRM	0	2	252	17	4	65324	65	60	34368	5760	0	0	0	0	0	0
PMWNDRVR	1	187	100	7	0	43132	13	10	27220	35579	0	0	0	0	0	0
PRINT56	0	1	254	4	0	6256	16	11	0	0	0	0	0	0	0	0
PRNTTASK	0	1	253	0	0	0	1	0	0	0	0	0	0	0	0	0
QUED	0	1	250	1	1	0	33	22	6656	0	0	0	0	0	0	0
RHDCDEAD	0	1	253	0	0	0	3	0	0	0	0	0	0	0	0	0
RHDCSTTS	0	4	250	1	0	216	19	17	11776	0	0	0	0	0	0	0
RU DRVR	0	6	253	3	1	0	6	5	0	0	0	0	0	0	0	0
S	0	3	100	1	0	1435	23	19	10752	0	0	0	0	0	0	0
SDEL	0	1	100	11	1	7728	27	24	19328	0	0	0	0	0	0	0
SFC	1	11	100	20	1	198823	28	23	33699	17001	0	0	0	0	0	0
SIGNON	0	1	100	1	0	2152	39	35	11520	768	1	1	0	0	0	0
UCF56	0	1	254	4	0	6256	15	11	0	0	0	0	0	0	0	0
USGADEL	1	1	100	11	2	7728	30	23	17536	0	0	0	0	1	0	0

PMARPT31: Task wait summary report

PMARPT31 contains wait information for each task execution.

Sample report

```
REPORT NO. 31                                        CA, INC.                                          mm/dd/yy PAGE     1
CA IDMS/PM nn.n    volser                      TASK WAIT SUMMARY REPORT
DC SYSTEM VERSION #:    71          <------------- YOUR COMPANY NAME ------------->        DATA FROM: mm/dd/yy

                               CPU             DBIO   AVG DBIO  OTHR  OTHR I/O AVG OTHR          OTHR   AVG OTHR        TOTAL
  TASK        TASK     START   TIME      DBIO WAIT TIME WAITTIME   I/O WAIT TIME I/O TIME  OTHR WAIT TIME WAITTIME TOTAL WAIT TIME
  CODE         NUM      TIME  (SECS)    WAITS   (SECS)   (SECS)  WAITS   (SECS)   (SECS)  WAITS   (SECS)   (SECS)  WAITS   (SECS)

 MASTER          0 11:07:52  2.9463    19    8.4377   .4441     26    1.6240   .0625      1      .3900    .3900     46   10.4517
 DBRC            1 11:07:52  1.1223
 RU DRVR         2 11:07:52   .0127
 RU DRVR         3 11:07:52   .0144
 RU DRVR         4 11:07:52   .0042
 RU DRVR         5 11:07:52   .0103
 RU DRVR         6 11:07:52   .0122
 RU DRVR         7 11:07:52   .0120
 LOG DRVR        8 11:07:52   .1080                             50    6.1553   .1231                                  50    6.1553
 LOG DRVR        9 11:07:52   .0578                             47    4.8811   .1039                                  47    4.8811
 LOG DRVR       10 11:07:52   .0155                             13    1.6945   .1303                                  13    1.6945
 PM I/O         11 11:07:52   .2834                             84    3.1461   .0375      1      .1385    .1385     85    3.2846
 PM ROLL        12 11:07:52   .0107                              1     .0828   .0828                                   1     .0828
 RHDCDEAD       13 11:07:52   .2568
 UCFLINE        14 11:07:55   .0177     1     .3814   .3814                                                            1     .3814
 VTAM71         15 11:07:55   .1965                                                       120   194.6261   1.6219    120  194.6261
 DDSVTAM        16 11:07:58   .7569                              1     .0849   .0849     27    16.9681    .6284     28   17.0530
 CCILINE        17 11:08:02   .0295
 QUED           18 11:08:12  1.2401     3     .4556   .1519    999   56.6762   .0567                                1002   57.1318
 CLOD           19 11:08:12   .0618    10     .8475   .0848                               1      .0350    .0350     11     .8825
 NOSNAP         20 11:08:16   .0104
 FACTOTUM       21 11:08:17   .0011
 FACTOTUM       22 11:08:50   .0011
 FACTOTUM       23 11:08:51   .0006
 S              24 11:08:56   .0212     3     .3722   .1241                                                            3     .3722
 FACTOTUM       25 11:08:57   .0032                              1     .0374   .0374                                   1     .0374
 C              26 11:09:15   .0219     1     .1375   .1375                                                            1     .1375
 FACTOTUM       27 11:09:29   .0031
 DCMT           28 11:09:29   .0258     1     .2310   .2310                                                            1     .2310
 FACTOTUM       29 11:09:30   .0034
 DCMT           30 11:09:30   .0169     1     .0209   .0209                                                            1     .0209
 FACTOTUM       31 11:09:30   .0034
 DCMT           32 11:09:30   .0061     1     .2980   .2980                                                            1     .2980
 FACTOTUM       33 11:09:30   .0030
 DCMT           34 11:09:30   .0064     1     .0190   .0190                                                            1     .0190
 FACTOTUM       35 11:09:30   .0030
 DCMT           36 11:09:30   .0065     1     .5303   .5303                                                            1     .5303
 FACTOTUM       37 11:09:31   .0026
 FACTOTUM       38 11:09:31   .0005
 D              39 11:09:35   .0133
 FACTOTUM       40 11:09:35   .0005
 D              41 11:12:30   .0048
 FACTOTUM       42 11:12:31   .0006
 D              43 11:12:37   .0144
 FACTOTUM       44 11:12:37   .0006
 C              45 11:12:46   .0104     1     .0774   .0774                                                            1     .0774
 FACTOTUM       46 11:12:48   .0031
 DCMT           47 11:12:48   .0049
 HELOT          48 11:12:48   .0171                                                         1      .0406    .0406      1     .0406
```

PMARPT31 fields

Field	Description
Task Code	Task code or CA ADS dialog name

Field	Description
Task Num	Sequential number assigned to the task at task initiation (also known as the task ID)
Start Time	Time the task was initiated (*hh:mm:ss*)
CPU Time	Total CPU time for the task (*ss.ssss*)
DBIO Waits	Number of waits for database reads and writes
DBIO Wait Time	Amount of time spent waiting for database reads and writes (*ssss.ttt*)
Avg DBIO Wait Time	Average time spent waiting for a database read or write (*ssss.tttt*)
Othr I/O Waits	Number of waits for I/O other than database reads and writes; typically journal I/O
Othr I/O Wait Time	Amount of time spent waiting for I/O other than database reads and writes (*ssss.ttt*)
Avg Othr I/O Time	Average time spent waiting for I/O other than database reads and writes (*ssss.tttt*)
Othr Waits	Number of waits for resources other than I/O; should be investigated further using PMARPT36
Othr Wait Time	Amount of time spent waiting for resources other than I/O (*ssss.ttt*)
Avg Othr Wait Time	Average amount of time spent waiting for resources other than I/O (*ssss.tttt*)
Total Waits	Total of all waits
Total Wait Time	Total amount of time spent waiting (*ssss.ttt*)

PMARPT36: Task wait detail report

PMARPT36 contains one page of detailed wait statistics per task execution.

Note: To minimize output, always run this report with explicit selection criteria.

Sample report

```
REPORT NO. 36                                        CA, INC.                                        mm/dd/yy PAGE    1
 CA IDMS/PM nn.n    volser                          TASKWAIT DETAIL REPORT
DC SYSTEM VERSION #:    72          <-------------- YOUR COMPANY NAME -------------->          DATA FROM: mm/dd/yy

         TASK: DBCRUPD    TASKID:      277    START TIME:  5:36:56

               --DBIO READ --              --JOURNAL READ --            --SCRATCH READ --            --LOG READ --
        WAITS          10                          80
    WAIT TIME       .2762                       .5240
     AVG TIME       .0276                       .0066
  HIGHEST TIME       .0956                       .0126

               --DBIO WRITE--              --JOURNAL WRITE--            --SCRATCH WRITE--            --LOG WRITE--
        WAITS           1                           2
    WAIT TIME       .0009                       .0140
     AVG TIME       .0009                       .0070
  HIGHEST TIME       .0009                       .0122

               --DOS PRIOR IO--            --JOURNAL BUFFER--           --SCR SINGLE THRD--          --LOG SINGLE THRD--
        WAITS                                       3                                                       1
    WAIT TIME                                   .3338                                                   .0053
     AVG TIME                                   .1113                                                   .0053
  HIGHEST TIME                                  .2613                                                   .0053

              --DB BUFFER --               --PGM LOADS  --              --QUEUE READ --              --LOG FULL --
        WAITS
    WAIT TIME
     AVG TIME
  HIGHEST TIME

              --DBKEYS --                  --LOADER SNGL THRD--         --QUEUE WRITE--              --EXTERNAL RU--
        WAITS           1
    WAIT TIME      1.5239
     AVG TIME      1.5239
  HIGHEST TIME      1.5239

              --AREA ACCESS--              --DDS WRITES --              --TP READS--                 --OTHER EXTRNL--
        WAITS
    WAIT TIME
     AVG TIME
  HIGHEST TIME

              --STORAGE POOL --            --CHECKUSER --               --TP WRITES--                --OTHER INTRNL--
        WAITS
    WAIT TIME
     AVG TIME
  HIGHEST TIME

              --PROGRAM POOL --            --DBGROUP --                 --SHARED CACHE --
        WAITS                                                                    8
    WAIT TIME                                                                .0051
     AVG TIME                                                                .0006
  HIGHEST TIME                                                               .0006

                                        DBKey Wait Record(s)  for this TaskID

               Area           PgGrp   DBKey-Page    Line   Holder     Type   Hold.TskID
  DBCR.BRNCHTEL                  15       684538       1   DBCRUPD    TASK          274
```

PMARPT36 fields

Field	Description
Task	Task code or CA ADS dialog name

Field	Description
Taskid	Sequential number assigned to the task at task initiation (also known as the task ID)
Start Time	Time the task was initiated (*hh:mm:ss*)
DBIO Read	Waits, wait time, average wait time, and highest wait time for database reads performed by or on behalf of the task
Journal Read	Waits, wait time, average wait time, and highest wait time for journal reads performed by or on behalf of the task (usually for rollback)
Scratch Read	Waits, wait time, average wait time, and highest wait time for scratch area reads performed by or on behalf of the task
Log Read	Waits, wait time, average wait time, and highest wait time for log area reads performed by or on behalf of the task
DBIO Write	Waits, wait time, average wait time, and highest wait time for database writes performed by or on behalf of the task
Journal Write	Waits, wait time, average wait time, and highest wait time for journal writes performed by or on behalf of the task
Scratch Write	Waits, wait time, average wait time, and highest wait time for scratch area writes performed by or on behalf of the task
Log Write	Waits, wait time, average wait time, and highest wait time for log area writes performed by or on behalf of the task
DOS Prior IO	Waits, wait time, average wait time, and highest wait time for prior I/O to complete (z/VSE only)
Journal Buffer	Waits, wait time, average wait time, and highest wait time because of full journal buffer (can indicate too few pages assigned to journal buffer)
Scr Singl Thrd	Waits, wait time, average wait time, and highest wait time for the scratch manager to finish single-threaded processing
Log Single Thrd	Waits, wait time, average wait time, and highest wait time for the log to finish single-threaded processing (if happening because of task or systems snaps, isolate and correct)
DB Buffer	Waits, wait time, average wait time, and highest wait time for database buffers
Pgm Loads	Waits, wait time, average wait time, and highest wait time for programs to be loaded by or on behalf of the task
Queue Read	Waits, wait time, average wait time, and highest wait time for queue area reads performed by or on behalf of the task

Field	Description
Log Full	Waits, wait time, average wait time, and highest wait time because log either full or being unloaded (frequent waits can indicate a problem with the log)
DBkeys	Waits, wait time, average wait time, and highest wait time for db-key waits (consistently high numbers can indicate a problem). Details on DBkeys are shown just behind all wait types.
Loader Sngl Thrd	Waits, wait time, average wait time, and highest wait time for the loader to finish single-threaded processing
Queue Write	Waits, wait time, average wait time, and highest wait time for queue writes issued by or on behalf of the task
External RU	Waits, wait time, average wait time, and highest wait time for external request units
Area Access	Waits, wait time, average wait time, and highest wait time for access to an area (check usage mode in this and other concurrently running programs)
DDS Writes	Waits, wait time, average wait time, and highest wait time for DDS I/O issued by or on behalf of the task
TP Reads	Waits, wait time, average wait time, and highest wait time for terminal writes
Other Extrnl	Waits, wait time, average wait time, and highest wait time for other meaningful external wait types, including the ICE, LRE, and user ECBs
Storage Pool	Waits, wait time, average wait time, and highest wait time to acquire storage for the task
Checkuser	Waits, wait time, average wait time, and highest wait time for an available check user subtask (z/OS batch external run units only)
TP Writes	Waits, wait time, average wait time, and highest wait time for terminal writes
Other Intrnl	Waits, wait time, average wait time, and highest wait time for other meaningful internal wait types, including ENQUEUE, DEQUEUE, LTE, PDE, and TCE
Program Pool	Waits, wait time, average wait time, and highest wait time for access to a program or reentrant pool
DBGroup	Waits, wait time, average wait time, and highest wait time for a request issued from a front-end CV that want to start a database session, to get an answer from a back-end CV that volunteers to service the request

Field	Description
Shared Cache	Waits, wait time, average wait time, and highest wait time for a shared cache from the Coupling Facility

If waits on DBKeys occur, details about the DBKeys are shown.

Field	Description
Area	The DBKey's area name.
PgGrp	The DBKey's page group.
DBKey-Page	The DBKey's page number.
Line	The DBKey's line index.
Holder	The name of the holder of the DBKey lock.
Type	The type (TASK, LTE, or DDS) of the Holder field.
Hold.TskID	The task ID of the holder of the DBKey lock.

PMARPT80: Load balancing report (by day and central version)

PMARPT80 contains one set of summary lines for each hour reported, for both batch and online processing. You get one report for each day of processing. Each set of lines includes the following three statistics:

- The number of tasks or CA ADS dialogs executed
- The amount of CPU used
- The number of physical disk I/Os issued

The relative lengths of the lines for different time periods reflect the relative loads for those periods.

If the report-generation job includes task selection parameters, this report can not reflect load balancing information accurately. Only data for those tasks that meet the selection criteria are considered in preparing the report.

Sample report

```
REPORT NO. 80                                        CA, INC.                                        mm/dd/yy PAGE    3
CA IDMS/PM nn.n    volser                          LOAD BALANCING REPORT                DATA FROM: mm/dd/yy  DATA TO: mm/dd/yy
DC SYSTEM VERSION #:    56        <-------------- YOUR COMPANY NAME -------------->

          TIME     RESOURCE      VALUE          DATA FOR 06/19/10
 BATCH    12:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 ONLINE   12:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 BATCH    13:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 ONLINE   13:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 BATCH    14:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 ONLINE   14:00    TASKS            19    .TTT                                               .
                   CPU            1.1863  .C                                                 .
                   I/O            2,053   .II                                                .
 BATCH    15:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 ONLINE   15:00    TASKS           287    .TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  .
                   CPU           11.2153  .CCCCCCCCCCCCCCCCC                                 .
                   I/O           10,524   .IIIIIIIIIIIIIII                                   .
 BATCH    16:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 ONLINE   16:00    TASKS           231    .TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT               .
                   CPU           29.3150  .CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  .
                   I/O           33,248   .IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  .
 BATCH    17:00    TASKS             0    .                                                  .
                   CPU             .0000  .                                                  .
                   I/O               0    .                                                  .
 ONLINE   17:00    TASKS             4    .                                                  .
                   CPU             .0750  .                                                  .
                   I/O              13    .                                                  .
```

PMARPT80 fields

The following table describes the fields in PMARPT80. Interpret the word *task* to mean either task or CA ADS dialog, as appropriate.

Field	Description
Tasks	Representation of the number of tasks or CA ADS dialogs executed
CPU	Representation of the total CPU time for all tasks in seconds
I/O	Representation of the number of physical disk I/Os for all tasks

PMARPT81: Load balancing (by CV)

PMARPT81 contains one set of summary lines for each hour reported, for both batch and online processing, sorted by central version. All days are compressed into one 24-hour graph.

The statistics are identical to those for Report 80. See PMARPT80: Load balancing report (by day and central version) (see page 158) for detailed field information.

PMARPT82: Load balancing (All CVs)

PMARPT82 contains one set of summary lines for each hour reported, for both batch and online processing, for all central versions. All days are compressed into one 24-hour graph.

The statistics are identical to those for Report 80. See PMARPT80: Load balancing report (by day and central version) (see page 158) for detailed field information.

PMARPT90: Machine-readable copy

Statistics extracted by Report 00 are output to either tape or disk.

When you run PMARPT90, you must run it with PMARPT00. Additionally, you can use the following parameters with PMARPT90:

- CV NUMBER
- DATE FORMAT
- REPORT FROM/THRU

PMARPT97: Summary recap report

PMARPT97 contains summary statistics for all tasks and CA ADS dialogs reported. This report is sorted by day and by central version.

Sample report

```
REPORT NO. 97                                        CA, INC.                                        mm/dd/yy PAGE   1
CA IDMS/PM nn.n    volser                       SUMMARY RECAP REPORT
                                    <-------------- YOUR COMPANY NAME -------------->

                                         TOTALS FOR DC SYSTEM VERSION  56 ON  4/11/11
```

```
0          103  TOTAL TASKS           37 DC/UCF          24 FACTOTUM         0 BATCH            0 CICS
                                       0 ADS/O            42 SYSTEM           0 ERUS             0 TPMON

           0:00.456206 TOTAL CPU TIME               0:00.004429 AVG CPU TIME             847 STACK HIGHWATER
           0:00.447970 TOTAL SYSTEM MODE            0:00.004349 AVG SYSTEM MODE            0 TOTAL ABENDS
           0:00.008237 TOTAL USER MODE              0:00.000080 AVG USER MODE             59 TOTAL DB I/O
                                                   13:56.100    AVG WAIT TIME

           0:00.000362 TOTAL zIIP ON CP CPU         0:00.000004 AVG zIIP ON CP CPU
           0:00.045384 TOTAL zIIP ON zIIP CPU       0:00.000441 AVG zIIP ON zIIP CPU
           0:00.045747 TOTAL ENCLAVE CPU            0:00.000444 AVG ENCLAVE CPU
           0:00.410459 TOTAL TOTAL TCB CPU          0:00.003985 AVG TOTAL TCB CPU

0            0  TASKS NOT             0 DC/UCF           0 FACTOTUM          0 BATCH            0 CICS
                SELECTED              0 ADS/O            0 SYSTEM            0 ERUS             0 TPMON


0          103  TASKS SELECTED        37 DC/UCF          24 FACTOTUM         0 BATCH            0 CICS
                                       0 ADS/O            42 SYSTEM           0 ERUS             0 TPMON

           0:00.456206 TOTAL CPU TIME               0:00.004429 AVG CPU TIME             847 STACK HIGHWATER
           0:00.447970 TOTAL SYSTEM MODE            0:00.004349 AVG SYSTEM MODE            0 TOTAL ABENDS
           0:00.008237 TOTAL USER MODE              0:00.000080 AVG USER MODE             59 TOTAL DB I/O
                                                   13:56.100    AVG WAIT TIME

           0:00.000362 TOTAL zIIP ON CP CPU         0:00.000004 AVG zIIP ON CP CPU
           0:00.045384 TOTAL zIIP ON zIIP CPU       0:00.000441 AVG zIIP ON zIIP CPU
           0:00.045747 TOTAL ENCLAVE CPU            0:00.000444 AVG ENCLAVE CPU
           0:00.410459 TOTAL TOTAL TCB CPU          0:00.003985 AVG TOTAL TCB CPU

            379 TOT PGM CALL RQSTS       3.68 AVG PGM CALL RQSTS          1165 TOT DBCALLS            11.31 AVG DBCALLS
             60 TOT PGM LOAD RQSTS        .58 AVG PGM LOAD RQSTS           544 TOT RECS RQSTED          5.28 AVG RECS RQSTED
                                                                           283 TOT RECS CURR R/U        2.75 AVG RECS CURR R/U
           1773 TOT GETSTG RQSTS       17.21 AVG GETSTG RQSTS
           1513 TOT FREESTG RQSTS      14.69 AVG FREESTG RQSTS            373 TOT PAGES RQSTED         3.62 AVG PAGES RQSTED

              8 TOT GETSCR RQSTS         .08 AVG GETSCR RQSTS              59 TOT DB I/O                .57 AVG DB I/O
             22 TOT PUTSCR RQSTS         .21 AVG PUTSCR RQSTS              59 TOT DB READS              .57 AVG DB READS
             10 TOT DELSCR RQSTS         .10 AVG DELSCR RQSTS               0 TOT DB WRITES                 AVG DB WRITES

              6 TOT GETQUE RQSTS         .06 AVG GETQUE RQSTS              0 TOT CALC NO OFLOW
              0 TOT PUTQUE RQSTS         .00 AVG PUTQUE RQSTS              0 TOT CALC W/ OFLOW
              0 TOT DELQUE RQSTS         .00 AVG DELQUE RQSTS              0 TOT VIA  NO OFLOW
                                                                           0 TOT VIA  W/ OFLOW
           1758 TOT GETTIME RQSTS      17.07 AVG GETTIME RQSTS            0 TOT FRAGMENTS
            765 TOT SETTIME RQSTS       7.43 AVG SETTIME RQSTS
1  C750009 RECORDS WRITTEN FOR REPORT 97 --          97
```

PMARPT97 fields

The following table describes the fields in PMARPT97. Interpret the word *tasks* to mean either task or CA ADS dialog, as appropriate.

Information	Description
Number of tasks (total)	Total number of tasks executed
System information (total)	DC/UCF system information, including total and average CPU time
Task selection information	Total number of tasks selected and not selected.

Information	Description
System information (for selected tasks)	DC/UCF system information, including total and average CPU time
Database/data communications statistics (for selected tasks)	Daily totals and averages for all database and DC/UCF statistics
Total zIIP on CP CPU	The total system mode CPU time for selected tasks consumed on a CP because zIIP is unavailable.
Average zIIP on CP CPU	The average system mode CPU time for selected tasks consumed on a CP because zIIP is unavailable.
Total zIIP on zIIP CPU	The total system mode CPU time for selected tasks consumed on a zIIP.
Average zIIP on zIIP CPU	The average system mode CPU time for selected tasks consumed on a zIIP.
Total Enclave CPU	The total system mode CPU time for selected tasks consumed on a zIIP or CP eligible as SRB, including zIIP on CP and zIIP on zIIP.
Average Enclave CPU	The average system mode CPU time for selected tasks consumed on a zIIP or CP eligible as SRB, including zIIP on CP and zIIP on zIIP.
Total TCB CPU	The total CPU time for selected tasks consumed on CP, including user mode and system mode CPU time.
Average TCB CPU	The average CPU time for selected tasks consumed on CP, including user mode and system mode CPU time.

PMARPT99: Input processing summary report

PMARPT99 provides the following information:

- **Task selection parameters**: For more information, see the Requesting Reports (see page 113).
- **Input parameter processing**
- **Input record processing statistics**:
  - Records read by PMARPT00
  - Records selected by PMARPT00
  - Records dropped by PMARPT00

  For example, this category includes the earliest record read and the latest record read.

Sample report

```
REPORT NO. 99                                          CA, INC.                                        mm/dd/yy PAGE    1
CA IDMS/PM nn.n    volser                        INPUT PROCESSING SUMMARY REPORT
                                      <-------------- YOUR COMPANY NAME -------------->

                   DATE FORMAT:    DMY


          ---------------------------------


          INPUT CARD PROCESSING

               CARDS READ:                  1
               CARDS PROCESSED:             1
               COMMENT CARDS:               0
               CARD ERRORS:                 0


          INPUT RECORD PROCESSING STATISTICS


          RECORDS READ BY PMARPT00

              # STAT RECS READ:          4,467

              # PMAM RECS READ:          4,179

              # PMIM RECS READ:            288
```

```
             EARLIEST REC READ:          07:54  ON 30/09/99  (99/274)
               LATEST REC READ:          08:20  ON 30/09/99  (99/274)

                 BY RECORD TYPE
                   TASK STATS            1,393
                   TASK WAIT                 0
                   DBKEY                     0

          RECORDS SELECTED BY PMARPT00

          # PMAM RECS SELECTED:          1,393

          EARLIEST REC SELECTD:          07:54  ON 30/09/99  (99/274)
           LATEST REC SELECTED:          08:20  ON 30/09/99  (99/274)

                BY RECORD TYPE
                   TASK STATS            1,393
                   TASK WAIT                 0
                   DBKEY                     0

REPORT NO. 99                                          CA, INC.                                        mm/dd/yy PAGE    2
CA IDMS/PM nn.n    volser                        INPUT PROCESSING SUMMARY REPORT
                                      <-------------- YOUR COMPANY NAME -------------->

          RECORDS DROPPED BY PMARPT00

           # PMAM RECS DROPPED:             0

           # PMIM RECS DROPPED:           288


          PROCESSING OF MULTIPART RECORDS

               #PMTASDS SEQ# 1          1,393
               #PMTASDS SEQ# 2          1,393
               #PMTASDS SEQ# 3          1,393

               #PMTAWDS SEQ# 1             0
               #PMTAWDS SEQ# 2             0
```

Appendix A: Changing the Billing Group Code

This section contains the following topics:

Overview

The Application Monitor provides the information necessary for billing of the resources consumed by DC/UCF tasks, batch jobs, and CICS transactions. Chargeback/billing information is broken down by **billing group**.

You can change billing groups in one of the following ways:

- Online using the task code PMBILL
- Programmatically:
  - With a program call
  - Through an CA ADS link

Changing Billing Groups Online

Enter the task code **pmbill** to access a screen on which you can dynamically change the billing group code. After you exit this screen, all subsequent Application Monitor statistics records for the user will reflect the new billing group code.

The messages below are returned by PMBILL processing:

Billing Group changed to: xxxxxxxxxxxx.

The Application Monitor has changed the billing group code to the value displayed.

Billing Group greater than 12 characters.

You supplied a billing group code that was too long. Supply a code that is 12 characters or less and try again.

Billing Group unchanged.

The monitor did not change the billing group. Another message will be displayed with this message, giving the reason.

Current Billing Group: xxxxxxxxxxxx.

The monitor has determined from the signon element that the billing group code for the signed-on user is the value displayed. It will next ask for the new billing group code.

Enter new Billing Group.

The monitor is requesting the new billing group code. Type the code and press ENTER.

No user currently signed on.

You tried to change the billing group code, but are not signed on to a DC/UCF system. Sign on to a DC/UCF system and try again.

Sign on before setting Billing Group.

See **No user currently signed on.** These messages always appear together.

Terminal error - please retry.

An error occurred with the terminal message handling. Enter the request again.

Note: For more information about the PMBILL task, see the *CA IDMS Performance Monitor User Guide*.

Changing Billing Groups Through a Program

An application program running under a DC/UCF system can maintain billing groups through a program call to PMAMBL10, a module supplied with the Application Monitor.

PMAMBL10 functions

Two functions are available with the PMAMBL10 interface:

- **Get Billing Group** returns the current billing group for the signed-on user
- **Set Billing Group** establishes a new billing group for the signed-on user

These functions are useful when:

- Your billing group changes during the day
- Your installation wishes to bill by program or application; using PMAMBL10, the billing assignment falls under program control

PMAMBL10 interface record

Programs that use PMAMBL10 require the following interface record (shown for COBOL):

```
01 BILLING-INTERFACE-RECORD.
   05 BILLING-RECORD-LENGTH   PIC 9(4) USAGE COMP  VALUE 24.
   05 BILLING-RECORD-VERSION  PIC 9(4) USAGE COMP  VALUE 1.
   05 BILLING-RECORD-FUNCTION PIC X(4) USAGE DISPLAY.
         88  GET-BILL          VALUE 'GETB'.
         88  SET-BILL          VALUE 'SETB'.
   05 BILLING-GROUP-RETCODE   PIC X(4) USAGE DISPLAY.
         88  GOOD-RETURN       VALUE 'RBOK'.
         88  NO-USER-SIGNED-ON VALUE 'RBNS'.
         88  BAD-RECORD        VALUE 'RBBP'.
   05 BILLING-GROUP           PIC X(12).
```

Description of fields

- BILLING-RECORD-LENGTH (binary) contains the length of the BILLING-INTERFACE-RECORD (always 24 for this release).
- BILLING-RECORD-VERSION (binary) contains the version number of the interface record (always 1 for this release).
- BILLING-RECORD-FUNCTION (display) determines the function requested: GETB, to return the current billing group into BILLING-GROUP; SETB, to set the billing group from the value in BILLING-GROUP.
- BILLING-GROUP-RETCODE (display) contains the status of the last request, as shown in the following table.
- BILLING-GROUP (display) contains the billing group last set or returned (depending on the value in BILLING-RECORD-FUNCTION).

Billing group return codes

Code	Meaning
RBOK	Processing was successfully completed
RBNS	No user was signed on, so no action was taken
RBBP	The interface record contains an invalid length (should be 24), version (should be 1), or function (should be GETB or SETB)

Passing control to PMAMBL10

When the program initializes fields in the interface record, it passes control to PMAMBL10. When the program receives control back from PMAMBL10, it examines the contents of BILLING-GROUP-RETCODE for the status of the requested operation.

COBOL example

```
PROCEDURE DIVISION.
    .
    .
    .
MOVE 24 TO BILLING-RECORD-LENGTH.
MOVE 1 TO BILLING-RECORD-VERSION.
MOVE 'AUDITING    ' TO BILLING-GROUP.
MOVE 'SETB' TO BILLING-RECORD-FUNCTION.
TRANSFER CONTROL TO 'PMAMBL10'
LINK USING BILLING-INTERFACE-RECORD.
    .
    .
    .
IF GOOD-RETURN . . .
```

CA ADS example

```
MOVE 'AUDITING    ' TO BILLING-GROUP.
MOVE 'SETB' TO BILLING-RECORD-FUNCTION.
LINK TO PROGRAM 'PMAMBL10'
      USING (BILLING-INTERFACE-RECORD).
IF GOOD-RETURN . . .
```

Appendix B: Tailoring Screens, Task Codes, and Entry Options

This section contains the following topics:

Overview

This appendix provides direction for those who wish to modify Performance Monitor to better suit their installation's needs. Before making Performance Monitor available to the users at your site, you can modify certain aspects in order to:

- Ensure that users have screen displays that are meaningful for your site; you do this by tailoring screens
- Control which groups of users have access to certain Performance Monitor features (such as the SAVE command); you do this by assigning separate task codes
- Invoke Performance Monitor, overriding certain #PMOPT specifications; you do this by using task code entry options

Customizing Screen Displays

Performance Monitor allows you modify screens and save them in the dictionary. This capability is controlled by the SITESAV and USERSAV parameters of the #PMGEN macro:

- USERSAV allows Performance Monitor users to save test versions (that is, versions other than 1) of monitor screens
- SITESAV allows Performance Monitor users to save all versions (including version 1) of monitor screens

The following pages tell you how to modify and save version 1 of Performance Monitor screens.

What you can do

You can modify the format of Performance Monitor screen displays (using EDIT and SORT) and save the screen load modules in the dictionary (using SAVE). For example, you can use these facilities to change the display size or the column order in the display. You can also specify that a certain field be displayed in descending order so that you can easily detect high activity.

Note: You should not edit screens whose window format is FIXED. To determine a window's format, use the ADMIN screen.

How to do it

To tailor a Performance Monitor screen, perform the following steps:

1. Sign on to a DC/UCF system.
2. Set a session test version of 1 by using the DCUF TEST command.
3. Set a session default dictionary by using the DCUF SET DICTNAME command.

   This name should specify the dictionary to which users are signed on while using Performance Monitor.
4. Sign on to Performance Monitor.
5. Make the screen the default window, as described in the *CA IDMS Performance Monitor User Guide*.
6. Make any required changes using the EDIT and SORT windows. For more information about EDIT and SORT, see the *CA IDMS Performance Monitor User Guide*.
7. Issue the SAVE command to request that Performance Monitor save the load module for the modified screen in the dictionary.

   A Performance Monitor subtask saves the load module in the session default dictionary. Because the session version was set to 1 (in Step 2), the load module is saved as version 1.

   Note: Because a subtask performs the save processing, all other active windows are available to you while the save occurs.

Restrictions

In order to save revised screen displays in this way (that is, in order to save version 1), the SITESAV parameter of the #PMGEN macro must specify YES. This macro is included in each of the three Performance Monitor initialization modules and is described in Part One of this manual.

Sample scenario

You can follow the steps below to tailor the screens for a component of Performance Monitor (Realtime Monitor, Interval Monitor, or Application Monitor):

1. Generate the #PMGEN macro with SITESAV=YES for the component whose screens are being changed, then complete the Performance Monitor installation.
2. Modify and save screen displays specific to your site.
3. Recode the #PMGEN macro with SITESAV=NO, then reassemble and relink the initialization module for the component.

Notes and suggestions

Observe these following guidelines:

- Users signed on to DC with a default version of 1 will use the modified screen displays automatically. To use the modified displays, ensure that your default DC version number (modified by the DCUF TEST command) is 1.
- Users signed on to DC under a test version (a version other than 1) use screen displays saved under their test version. If there is no screen display load module for their test version, they use the modified display.
- In order to ensure use among multiple dictionaries, you may want to punch the saved load module to a load library. This library must be ahead of the Performance Monitor load library in the CDMSLIB concatenation or search sequence.
- In order to allow certain users to always have site save capability, you may choose to implement separate task codes. This is explained in Tailoring Task Codes (see page 173) later in this appendix.

Example of tailoring and saving screens

The example below shows how to tailor and save the Active User Tasks screen used by the Realtime Monitor.

1. Press [PF4] to make the Active User Task Detail screen the default window.
2. Type **edit** at the CMD--> prompt.

```
PM-R17.0 SYSTEM71            CA, Inc.              V71     10.158 12:02:56.34

CMD-->                                                      Window : 02
                                                            Refresh: 10
  02 Active User Task Detail                                                >
  Task      Task      Current Task  Link                    Task  Ecblist
  Number    Code      Program  Pri Level User_ID  Lterm_ID Status  Address
  1796      PMRM     PMWNDRVR  252              VL71001  RUN    00000000
```

Press [Enter] to display the Edit Window Format screen.

3. Press [PF6] to display the screen for editing the window fields.

```
PM-R17.0 SYSTEM99              CA, Inc.              V72     10.158 15:34:18.54

CMD-->                                                          Window : 02
                                                                Refresh: 10
  02 EDIT Window Format - PF6 for Window Edit                              i
         Field  Field                                    Required Displayable
 Command Order Number Field Name                         Field    Field
    _        1      1 Task_Number                        YES      YES
    _        2      2 Task_Code                          YES      YES
    _        3      3 Current_Program                    YES      YES
    _        4      4 Priority                           NO       YES
    _        5      5 Link_Levels                        NO       YES
    _        6      6 User_ID                            NO       YES
    _        7      7 Lterm_ID                           NO       YES
    _        8      8 Task_Status                        NO       YES
```

4. To move a field, enter **m** in the Command column of the field to move, and enter **a** in the Command column of the field that you want the moved field to follow. For example, to move Task_Status after Priority, enter **m** in the Command column for Task_Status, **a** in the Command column for Priority, and then press [Enter]. Repeat this step for each field you want to move.

   Note: For more information about the EDIT facility, see the *CA IDMS Performance Monitor User Guide*.

5. Press [PF3] to display the Active User Task Detail screen and verify the changes.

6. To save the changes permanently, type **save** at the CMD--> prompt and press [Enter].

   Performance Monitor tells you the module name, version, and dictionary for the saved load module for the screen.

```
PM-R17.0 SYSTEM99              CA, Inc.              V72     10.158 15:34:18.54

CMD-->                                                          Window : 02
                                                                Refresh: 10
  02 Save Site - Window Overrides
The Window Load Module will be saved according to the following information:
       Module: PMRTMTSK
      Version:    98
     Dictname:
     Dictnode:
 PRESS PF6 IN ORDER TO CONFIRM SAVE.
```

7. Press [PF6] to save the load module and version shown.

   Performance Monitor displays the message SAVE OF WINDOW DEFINITION IS IN PROGRESS. When the save is complete and the screen refreshes (either automatically or when you press [Enter]), Performance Monitor displays the message SAVE OF WINDOW DEFINITION SUCCESSFULLY COMPLETED.

Tailoring Task Codes

You can generate separate versions of the PM*xx*INIT modules for users with a higher security class. For example, you could have one set of task codes for DBAs and one set of task codes for programmers. The DBAs are allowed to save modules in the dictionary; programmers are not.

To assign a separate set of task codes, perform the following steps:

1. Code separate initialization modules (PMRTINIT, PMIMINIT, or PMAMINIT). The #PMGEN macros contained in each of these modules should specify the abilities that you want the higher class of users to have. For example, you may want to specify SITESAV=YES and SORT=YES.

   Note: Use the modules supplied with your Performance Monitor installation media as models. You can change any of the #PMGEN parameters except PROGRAM.

2. Link edit the initialization module, but specify a name other than PM*xx*INIT in the link-edit NAME statement (for example, PMRTINI2).

   Be sure to include an ENTRY INITEP1 statement in the link-edit stream.

3. Using the system generation compiler, define the new initialization program and a task to invoke the program. For example, task code PMRM2 could invoke program PMRTINI2.

   You could assign a higher security class to this task code so that it is available only to certain users. For prototype system generation statements, see the DLODPERF module, which is automatically installed into the specified source library by the Performance Monitor installation process.

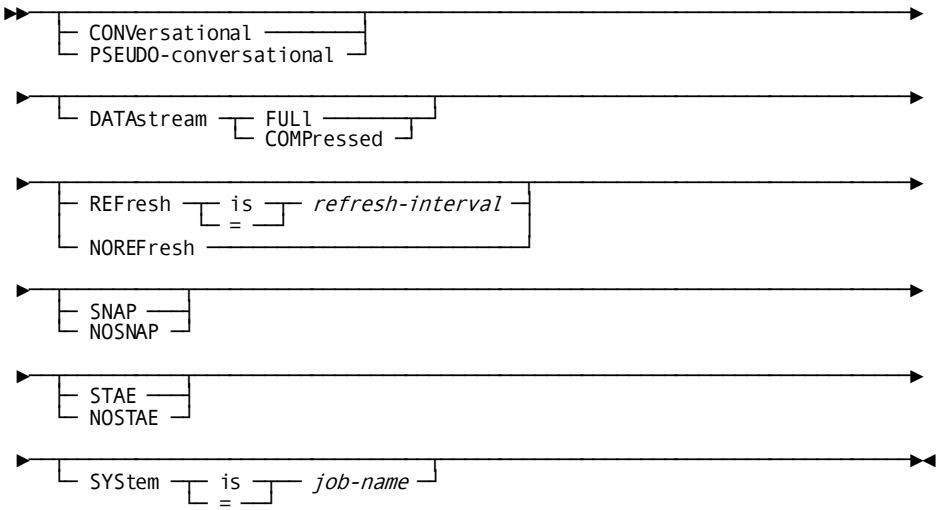
Task Code Entry Options

Task-code entry options are established at runtime. You use them to override session and installation options when initiating a Performance Monitor session.

Note: These options are not explained in the *CA IDMS Performance Monitor User Guide*. As system administrator, you decide whether to make these options available to your site's Performance Monitor users.

You can override certain session and installation options by invoking Performance Monitor components using task-code entry options. These overrides apply to the current Performance Monitor component session only. Syntax and parameter descriptions follow.

Syntax



Parameters

CONVersational/PSEUDO-conversational

Specifies whether the Performance Monitor component runs in a conversational or a pseudo-conversational manner.

The Realtime Monitor is the only Performance Monitor component that should run conversationally.

DATAstream FULl/COMPressed

Specifies whether all fields or only modified fields are transmitted to and from the terminal.

REFRESH is *refresh-interval*/NOREFresh

Specifies either a refresh interval or that refresh processing should not occur. *Refresh-interval* is a number between 1 and 99.

SNAP/NOSNAP

Specifies whether the system should perform a snap dump in the event of Performance Monitor abnormal termination processing.

STAE/NOSTAE

Specifies whether the STAE option is enabled or disabled for your Performance Monitor session.

SYStem is *job-name*

(z/OS only) Specifies the job name of a remote Central Version that is monitored by the Performance Monitor session. If you do not specify a job name, the local Central Version job name is used. To request a list of all active central versions, specify an asterisk in place of the job name. Request a filtered list by using an asterisk as a wildcard character in a given job name. Any characters following an asterisk are ignored.

To monitor a system remotely, ensure that:

- The IDMSINFO address space is active.
- The monitored central version is running non-swappable.

Note:

- For more information about using the IDMSINFO address space, see the *CA IDMS System Operations Guide*.
- The Realtime Monitor is the only Performance Monitor component that can exploit external monitoring functionality.

Examples

The following example invokes the Realtime Monitor and specifies that it is to run pseudo-conversationally:

```
V84  ENTER NEXT TASK CODE:
pmrm pseudo
```

Note: When you run the Realtime Monitor pseudo-conversationally, Performance Monitor still refreshes the screen.

You can use more than one task-code entry option at a time. The following example invokes the Realtime Monitor and specifies that it is to run with NOSTAE and a refresh interval of 30 seconds:

```
V84  ENTER NEXT TASK CODE:
pmrm nostae refresh 30
```

You can run Realtime Monitor to examine a remote Central Version from a local session:

```
V84  ENTER NEXT TASK CODE:
pmrm system=system71
```

You can run Realtime Monitor to list all active central versions whose job name starts with the prefix SYSQ:

```
V84  ENTER NEXT TASK CODE:
pmrm system=sysq*
```

Appendix C: Performance Monitor Record Descriptions

This appendix documents the Performance Monitor record layouts. It provides the following information:

- Format of Performance Monitor records
- Format of SMF records
- Record descriptions (DSECTs) for all records used for statistics collection

This section contains the following topics:

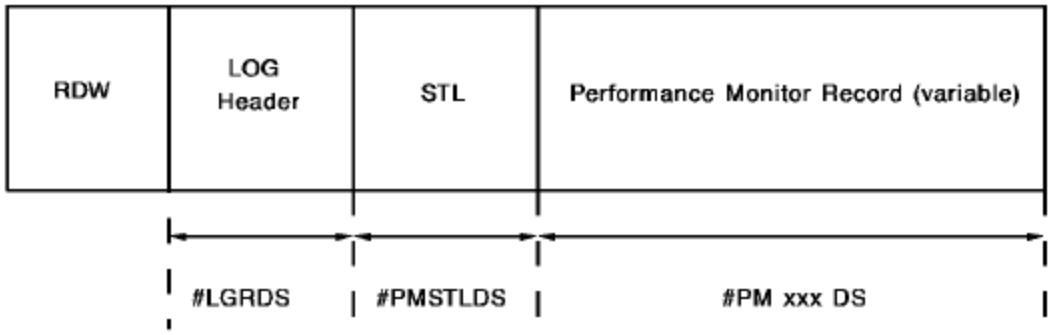
Format of Performance Monitor Records

The record format shown below applies to Performance Monitor records stored in the following files:

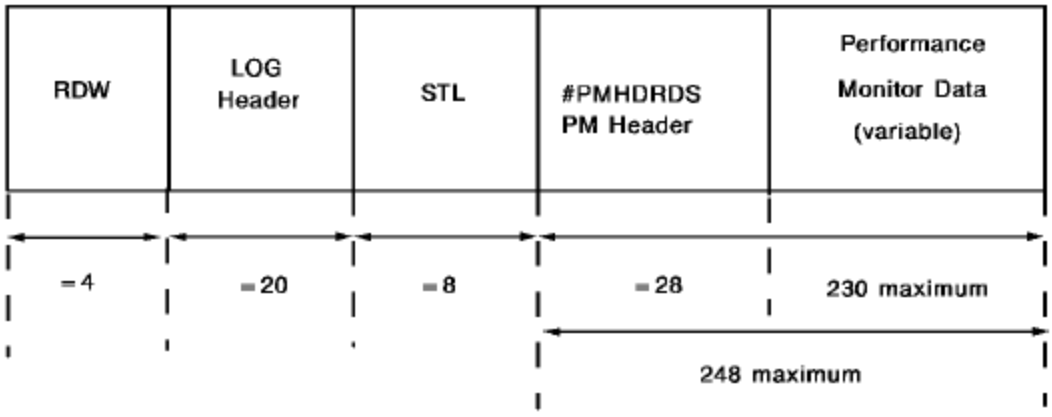
- DC/UCF system log file
- Archive file
- PMSMFEX extract file
- PMxRPT90 output tape or disk file

The bottom portion lists the log-record component lengths and, where appropriate, the DSECT field that indicates the component length.

General format

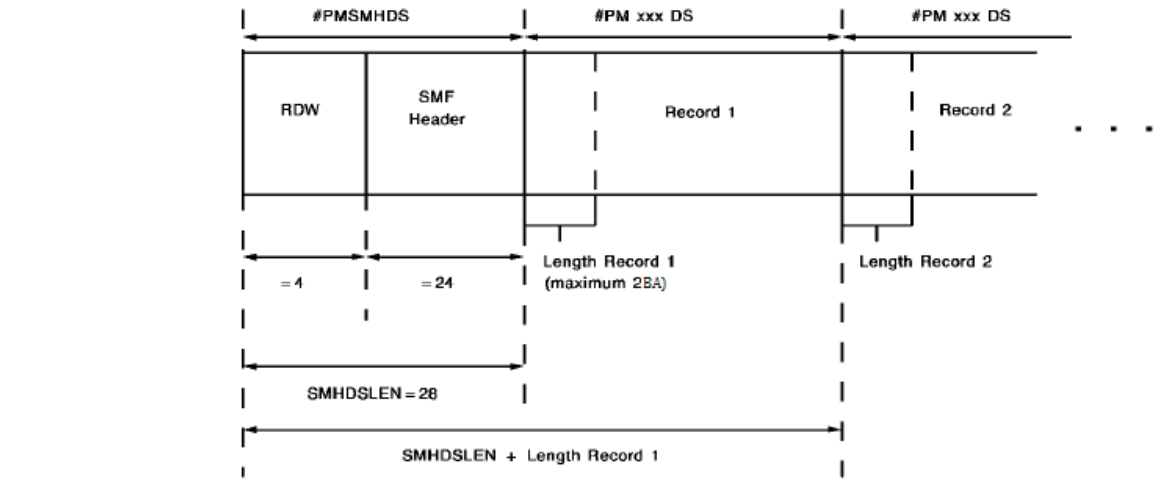


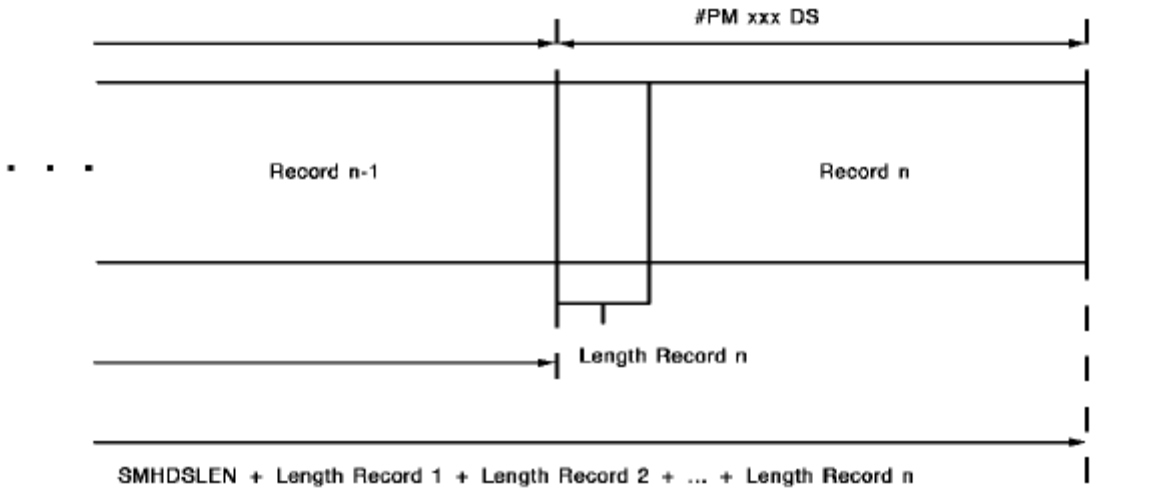
Detailed format



Format of SMF Records

The record format shown below applies to records stored in the SMF file as user SMF record type *nnn*. SMF records contain both Application Monitor and Interval Monitor records. The data portion of Performance Monitor records is of variable length.





#PMARADS

```
COPY #PMARADS
```

```
                ********************************************************************
                ***                                                              ***
                ***      #PMARA - PMIM AREA WAIT RECORD                          ***
                ***                                                              ***
                ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.                ***
                ***                                                              ***
                ***                                                              ***
                ***                                                              ***
                ********************************************************************
                *        ONE AREA RECORD FOR EACH AREA/FILE COMBINATION IN DMCL
                *             EX: ONE FILE W/ TWO AREAS WILL HAVE 2
                *                 ONE AREA IN 3 FILES WILL HAVE 3
                *
                *------------------------------------------------------------------
                *

Offset  Value

000000          #PMARA   DSECT                                          12/05/95
                *
                *------------------------------------------------------------------
                *
000000          ARAHDR   DS   0H                 RECORD HEADER
                *
000000          ARALEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002          ARARTYPE DS    X                 RECORD TYPE
          00001 ARA$TYPE EQU       1             ..PMIM AREA WAIT RECORD
000003          ARASEQ#  DS    X                 SEQUENCE NUMBER
000004          ARAVER#  DS    X                 RECORD VERSION
          00001 ARA$VER  EQU       1             ..CURRENT VERSION
000005                   DS    XL3               **RESERVED**
                *
000008                   DS    F                 ** RESERVED **
00000C          ARASDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010          ARASTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014          ARAEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018          ARAETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
                *
          0001C ARAHDRLN EQU   *-ARAHDR          LENGTH OF HEADER
                *
                *------------------------------------------------------------------
                *
          0001C ARADATA  EQU   *                 START OF AREA DATA
                *
                *------------------------------------------------------------------
                *
                *        PART 1 - ARASEQ#=1
                *
                *------------------------------------------------------------------
```

```
                *
00001C          ARANAME  DS    CL27               NAME OF AREA
000037          ARAFILE  DS    CL27               FILENAME OF AREA
000052          ARABUFR  DS    CL18               BUFFER FOR AREA
000064          ARAFPERA DS    H                  # FILES FOR AREA
                *                                    IE: HOW MANY OF THESE RECS?
000066          ARAPGGRP DS    H                  PAGE GROUP
000068          ARAKYFMT DS    F                  DBKEY FORMAT
00006C          ARAATYP  DS    CL2                TYPE OF AREA (DPRATYP)
00006E          ARASTATS DS    CL2                AREA STATUS INTVL START (DPRCURST)
000070          ARASTATE DS    CL2                AREA STATUS INTVL END
Offset  Value

000072                   DS    H                  ** RESERVED **
                *
000074          ARASHCNM DS    CL16               NAME OF SHARED CACHE
000084                   DS    F                  ** RESERVED **
                *
                *-------------------------------------------------------------------
                *
000088          ARAWBKTS DS    0F                 START OF WAIT TIME STATISTICS
                *
000088          ARADBIR  DS    0F                 DBIO READ WAIT
000088          ARADBIRT DS     F                 ....SUM OF WAIT TIMES (10**-4 SEC)
00008C          ARADBIRH DS     F                 ....HIGHEST WAIT TIME (10**-4 SEC)
000090          ARADBIR# DS     F                 ....# WAITS
                *
000094          ARADBIW  DS    0F                 DBIO WRITE WAIT
000094          ARADBIWT DS     F                 ....SUM OF WAIT TIMES (10**-4 SEC)
000098          ARADBIWH DS     F                 ....HIGHEST WAIT TIME (10**-4 SEC)
00009C          ARADBIW# DS     F                 ....# WAITS
                *
0000A0          ARAFCBX  DS    0F                 DBIO WAIT ON A PRIOR I/O (DOS)
0000A0          ARAFCBXT DS     F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000A4          ARAFCBXH DS     F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000A8          ARAFCBX# DS     F                 ....# WAITS
                *
0000AC          ARADBFR  DS    0F                 DB BUFFER WAIT
0000AC          ARADBFRT DS     F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000B0          ARADBFRH DS     F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000B4          ARADBFR# DS     F                 ....# WAITS
                *
0000B8          ARABMES  DS    0F                 BMESECB WAIT
0000B8          ARABMEST DS     F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000BC          ARABMESH DS     F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000C0          ARABMES# DS     F                 ....# WAITS
                *
0000C4          ARABMEX  DS    0F                 BMEXECB WAIT
0000C4          ARABMEXT DS     F                 ....SUM OF WAIT TIMES (10**-4 SEC)
```

```
0000C8          ARABMEXH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000CC          ARABMEX# DS    F                    ....# WAITS
                *
0000D0          ARADBKY  DS    0F                   DBKEY WAIT
0000D0          ARADBKYT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000D4          ARADBKYH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000D8          ARADBKY# DS    F                    ....# WAITS
                *
0000DC          ARASHC   DS    0F                   SHARED CACHE WAIT
0000DC          ARASHCT  DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000E0          ARASHCH  DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000E4          ARASHC#  DS    F                    ....# WAITS
                *
                *--------------------------------------------------------------------
                *
0000E8                   DS    0F
        000E8   ARA1DSLN EQU   *-#PMARA             PART1 - LENGTH OF RECORD
                *
                *
        00008   ARA#BKTS EQU   8                    PART1 - # WAIT BUCKETS
        000CC   ARA1DTLN EQU   ARA1DSLN-ARAHDRLN    PART1 - LENGTH OF RECORD DATA
                *
                *--------------------------------------------------------------------
                *--------------------------------------------------------------------
                *
0000E8                   ORG   ARADATA
                *
                *--------------------------------------------------------------------
                *
                *        PART 2 - ARASEQ#=2
Offset  Value

                *
                *--------------------------------------------------------------------
                *
00001C          ARA#ACWT DS    F                    # AREA ACCESS WAITS
000020          ARA#ACCS DS    F                    # AREA ACCESSES
000024          ARA#WRIT DS    F                    # PHYSICAL WRITES FROM AFM
000028          ARA#READ DS    F                    # PHYSICAL READS FROM AFM
00002C          ARA#BFHT DS    F                    # BUFFER HITS FOR AREA RQSTS
000030          ARA#PFHT DS    F                    # PREFETCH HITS
                *
000034          ARA#ESAR DS    F                    # READS FROM ESA CACHE
000038          ARA#ESAF DS    F                    # FOUND IN ESA CACHE
00003C          ARA#ESAW DS    F                    # WRITE TO ESA CACHE
000040          ARA#SHCR DS    F                    # READS FROM SHARED CACHE
000044          ARA#SHCF DS    F                    # FOUND IN SHARED CACHE
000048          ARA#SHCW DS    F                    # WRITE TO SHARED CACHE
00004C          ARA#SHCX DS    F                    # WRITE THAT FAILED
```

```
                *
                *---------------------------------------------------------------
                *
000050                  DS    0F
        00050   ARA2DSLN EQU   *-#PMARA            PART2 - LENGTH OF RECORD
                *
                *
        00034   ARA2DTLN EQU   ARA2DSLN-ARAHDRLN   PART2 - LENGTH OF RECORD DATA
                *
                *---------------------------------------------------------------
                *
000050                  ORG   ,
                *
        000E8   ARAMXLEN EQU   ((*-#PMARA+3)/4)*4  LENGTH OF LARGEST PART
                *
                *---------------------------------------------------------------
```

#PMBUFDS

```
                COPY #PMBUFDS
              ********************************************************************
              ***                                                              ***
              ***      #PMBUF - PMIM BUFFER WAIT RECORD                        ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE BUFFER RECORD FOR EACH BUFFER POOL IN DMCL
              *
              *-----------------------------------------------------------------
              *
Offset  Value

000000        #PMBUF   DSECT                                          12/13/95
              *
              *-----------------------------------------------------------------
              *
000000        BUFHDR   DS   0H                 RECORD HEADER
              *
000000        BUFLEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002        BUFRTYPE DS    X                 RECORD TYPE
       00002  BUF$TYPE EQU       2             ..PMIM BUFFER WAIT RECORD
000003        BUFSEQ#  DS    X                 SEQUENCE NUMBER       (ALWAYS 1)
000004        BUFVER#  DS    X                 RECORD VERSION
       00001  BUF$VER  EQU       1             ..CURRENT VERSION
000005                 DS    XL3               ** RESERVED **
              *
000008                 DS    F                 ** RESERVED **
00000C        BUFSDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010        BUFSTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014        BUFEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018        BUFETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  BUFHDRLN EQU   *-BUFHDR          HEADER LENGTH
              *
              *-----------------------------------------------------------------
              *
       0001C  BUFDATA  EQU   *                 START OF JOURNAL DATA
              *
00001C        BUFNAME  DS    CL18              NAME OF BUFFER POOL
00002E                 DS    XL2               ** RESERVED **            PERF/109
000030        BUFPGSIZ DS    F                 SIZE OF BUFFER PAGE
000034        BUF#DEFN DS    F                 # BUFFER PAGES DEFINED (IN DMCL)
000038        BUF#INUS DS    F                 # BUFFER PAGES IN USE
```

```
                *
00003C          BUF#RQST DS    F                  # REQUESTS TO BUFFER POOL
000040          BUF#FLSH DS    F                  # BUFFER FLUSHES IN BUFFER POOL
000044          BUF#WRIT DS    F                  # PHYSICAL WRITES FROM BCRST
000048          BUF#READ DS    F                  # PHYSICAL READS FROM BCRST
00004C          BUF#PFND DS    F                  # PAGES FOUND IN BUFFER POOL
000050          BUF#PFCA DS    F                  # PAGES FOUND IN CACHE (ESA/SHA-CA)
000054          BUF#PFET DS    F                  # PAGES FOUND IN PREFETCH BUFFER
                *
                *------------------------------------------------------------------
                *
000058          BUFWBKTS DS   0F                  START OF WAIT TIME STATISTICS
                *
000058          BUFDBIR  DS   0F                  DB READ WAIT
Offset  Value

000058          BUFDBIRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00005C          BUFDBIRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000060          BUFDBIR# DS    F                  ....# WAITS
                *
000064          BUFDBIW  DS   0F                  DB WRITE WAIT
000064          BUFDBIWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000068          BUFDBIWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00006C          BUFDBIW# DS    F                  ....# WAITS
                *
000070          BUFBMES  DS   0F                  BMESECB WAIT
000070          BUFBMEST DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000074          BUFBMESH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000078          BUFBMES# DS    F                  ....# WAITS
                *
00007C          BUFBMEX  DS   0F                  BMEXECB WAIT
00007C          BUFBMEXT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000080          BUFBMEXH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000084          BUFBMEX# DS    F                  ....# WAITS
                *
000088          BUFDBFR  DS   0F                  DB BUFFER WAIT
000088          BUFDBFRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00008C          BUFDBFRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000090          BUFDBFR# DS    F                  ....# WAITS
                *
000094                   DS   0F                  ** RESERVED **
000094                   DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000098                   DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00009C                   DS    F                  ....# WAITS
                *
                *------------------------------------------------------------------
                *
        000A0   BUFDSLEN EQU   ((*-#PMBUF+3)/4)*4  LENGTH OF RECORD
                *
```

```
       *-------------------------------------------------------------------
       *
00005  BUF#BKTS EQU   5                   # WAIT BUCKETS
00084  BUFDTLEN EQU   BUFDSLEN-BUFHDRLN   LENGTH OF RECORD DATA
       *
       *-------------------------------------------------------------------
```

#PMCDMDS

```
                COPY #PMCDMDS
              ********************************************************************
              ***                                                              ***
              ***      #PMCDM - PMIM CDMSLIB WAIT RECORD                       ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *

Offset  Value
000000        #PMCDM   DSECT                                    03/03/88
              *
              *-----------------------------------------------------------------
              *
000000        CDMHDR   DS   0H                  RECORD HEADER
              *
000000        CDMLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002        CDMRTYPE DS    X                  RECORD TYPE
       00003  CDM$TYPE EQU       3              ..PMIM CDMSLIB WAIT RECORD
000003        CDMSEQ#  DS    X                  SEQUENCE NUMBER       (ALWAYS 1)
000004        CDMVER#  DS    X                  RECORD VERSION
       00001  CDM$VER  EQU       1              ..CURRENT VERSION
000005                 DS    XL3                ** RESERVED **
              *
000008                 DS    F                  ** RESERVED **
00000C        CDMSDATE DS    PL4                INTERVAL START DATE   (00YYYDDF)
000010        CDMSTIME DS    F                  INTERVAL START TIME   (10**-4 SEC)
000014        CDMEDATE DS    PL4                INTERVAL END DATE     (00YYYDDF)
000018        CDMETIME DS    F                  INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  CDMHDRLN EQU   *-CDMHDR           HEADER LENGTH
              *
              *-----------------------------------------------------------------
              *
       0001C  CDMDATA  EQU   *                  START OF CDMSLIB DATA
              *
00001C        CDMNUMB  DS    H                  NUMBER OF CDMSLNNN (CDMSLIB=0)
00001E                 DS    H                  * UNUSED
              *
              *-----------------------------------------------------------------
              *
000020        CDMWBKTS DS   0F                  START OF WAIT TIME STATISTICS
              *
000020        CDMREAD  DS   0F                  CDMSLIB I/O WAIT
000020        CDMREADT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000024        CDMREADH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
```

```
000028         CDMREAD# DS    F                   ....# WAITS
               *
               *-------------------------------------------------------------------
               *
         0002C CDMDSLEN EQU   ((*-#PMCDM+3)/4)*4  LENGTH OF RECORD
               *
               *-------------------------------------------------------------------
               *
         00001 CDM#BKTS EQU   1                   # WAIT BUCKETS
         00010 CDMDTLEN EQU   CDMDSLEN-CDMHDRLN   LENGTH OF RECORD DATA
               *
               *-------------------------------------------------------------------
```

#PMDBGDS

```
                                    COPY #PMDBGDS
              ********************************************************************
              ***                                                              ***
              ***      #PMDBG - PMIM DBGROUP WAIT RECORD                       ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED. ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *

Offset  Value

000000        #PMDBG   DSECT                                              12/04/95
              *
              *-----------------------------------------------------------------
              *
000000        DBGHDR   DS   0H                  RECORD HEADER
              *
000000        DBGLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002        DBGRTYPE DS    X                  RECORD TYPE
       0000C  DBG$TYPE EQU      12             ..PMIM DBGROUP WAIT RECORD
000003        DBGSEQ#  DS    X                  SEQUENCE NUMBER       (ALWAYS 1)
000004        DBGVER#  DS    X                  RECORD VERSION
       00001  DBG$VER  EQU       1             ..CURRENT VERSION
000005                 DS    XL3                ** RESERVED **
              *
000008                 DS    F                  ** RESERVED **
00000C        DBGSDATE DS    PL4                INTERVAL START DATE   (00YYYDDF)
000010        DBGSTIME DS    F                  INTERVAL START TIME   (10**-4 SEC)
000014        DBGEDATE DS    PL4                INTERVAL END DATE     (00YYYDDF)
000018        DBGETIME DS    F                  INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  DBGHDRLN EQU   *-DBGHDR           HEADER LENGTH
              *
```

```
                *-------------------------------------------------------------------
                *
        0001C   DBGDATA  EQU   *                   START OF DBGROUP DATA
                *
00001C          DBGNAME  DS    CL8                 NAME OF DBGROUP
000024          DBG#REQ  DS    F                   TOTAL NUMBER OF REQUESTS
                *
000028          DBGNODNM DS    CL8                 NAME OF SERVER NODE
000030          DBGNOD#R DS    F                   NUMBER OF REQUESTS PROCESSED
                *
                *-------------------------------------------------------------------
                *
000034          DBGWBKTS DS   0F                   START OF WAIT TIME STATISTICS
                *
                *
000034          DBGDBG   DS   0F                   DBGROUP WAIT
000034          DBGDBGT  DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
000038          DBGDBGH  DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
00003C          DBGDBG#  DS    F                   ....# WAITS
                *
                *-------------------------------------------------------------------
                *
        00040   DBGDSLEN EQU   *-#PMDBG            LENGTH OF RECORD
                *
                *-------------------------------------------------------------------
                *
        00001   DBG#BKTS EQU   1                   # WAIT BUCKETS
Offset  Value

        00024   DBGDTLEN EQU   DBGDSLEN-DBGHDRLN   LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
```

#PMDBKDS

```
                COPY #PMDBKDS
              ************************************************************************
              ***                                                                  ***
              ***      #PMDBK - TASK DBKEY WAIT RECORD                             ***
              ***                                                                  ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.                ***
              ***                                                                  ***
              ***                                                                  ***
              ***                                                                  ***
              ************************************************************************
              *
              *
              *        UP TO MAX # SPECIFIED IN #PMOPT PER TASK
              *
              *---------------------------------------------------------------------
              *

Offset  Value

000000        #PMDBK   DSECT                          03:24:14 03/03/88   12/27/94
              *
              *---------------------------------------------------------------------
              *
000000        DBKHDR   DS   0H                  RECORD HEADER
              *
000000        DBKLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002        DBKRTYPE DS    X                  RECORD TYPE
       00012  DBK$TYPE EQU     18               ..PMAM TASK DBKEY WAIT RECORD
000003        DBKSEQ#  DS    X                  SEQUENCE NUMBER
000004        DBKVER#  DS    X                  RECORD VERSION
       00001  DBK$VER  EQU      1               ..CURRENT VERSION
000005                 DS    XL3                ** RESERVED **
              *
000008        DBKTSKID DS    F                  TASK ID
00000C        DBKSDATE DS    PL4                TASK START DATE       (00YYYDDF)
000010        DBKSTIME DS    F                  TASK START TIME       (10**-4 SEC)
000014        DBKEDATE DS    PL4                TASK END DATE         (00YYYDDF)
000018        DBKETIME DS    F                  TASK END TIME         (10**-4 SEC)
              *
       0001C  DBKHDRLN EQU   *-DBKHDR           HEADER LENGTH
              *
              *---------------------------------------------------------------------
              *
       0001C  DBKDATA  EQU   *                  START OF TASK DBKEY WAIT DATA
              *
00001C        DBKDBKEY DS    F                  DBKEY BEING WAITED ON
000020        DBKAREA  DS    CL27               AREA CONTAINING DBKEY
00003B        DBKFILE  DS    CL27               FILE CONTAINING DBKEY
              *
```

```
000056         DBKOWNER DS    X                  DBKEY OWNER TYPE
        00080  DBKDCE   EQU   X'80'              ..DCE IS OWNER
        00040  DBKLTE   EQU   X'40'              ..LTE IS OWNER
        00020  DBKHTE   EQU   X'20'              ..HTE IS OWNER
000057                 DS    X                  **  RESERVED  **
               *
000058         DBKPGGRP DS    H                  AREA'S PAGE GROUP  (DPRPGRUP)
00005A                 DS    XL2                **  RESERVED  **           PERF/116
00005C         DBKKYFMT DS    F                  DBKEY FORMAT       (DPRDBKFM)
               *
000060         DBKLTYPE DS    F                  LOCK TYPE          (FROM RLTH)
               *
               *--------------------------------
               *
Offset  Value

000064         DBKVDATA DS   0F                  VARIABLE HOLDER INFORMATION
               *
               *        HOLDER IS ANOTHER TASK
000064         DBKHDTID DS    F                  TASK ID OF HOLDER
000068         DBKHDPGM DS    CL8                PROGRAM HOLDING DBKEY
000070         DBKHDTSK DS    CL8                TASK NAME OF HOLDER
               *
000078                 ORG   DBKVDATA
               *        HOLDER IS ANOTHER LTERM (LONGTERM LOCKS)
000064                 DS    F                  ** RESERVED **
000068         DBKHDLTE DS    CL8                LTERM OF HOLDER
               *
000070                 ORG   DBKVDATA
               *        HOLDER IS A DDS TASK
000064                 DS    F                  ** RESERVED **
000068         DBKHTLTE DS    CL8                DDS FRONTEND LTERM OF HOLDER
000070         DBKHTNOD DS    CL8                DDS FRONTEND NODENAME OF HOLDER
               *
000078                 ORG
        00014  DBKVLEN  EQU   *-DBKVDATA         LENGTH OF VARIABLE DATA
               *
               *--------------------------------
               *
000078         DBKWAIT  DS    F                  DBKEY WAIT TIME       (10**-4 SEC)
               *
               *-------------------------------------------------------------------
               *
        0007C  DBKDSLEN EQU   ((*-#PMDBK+3)/4)*4  LENGTH OF RECORD
               *
               *-------------------------------------------------------------------
               *
        00060  DBKDTLEN EQU   DBKDSLEN-DBKHDRLN   LENGTH OF RECORD DATA
```

```
*
*-----------------------------------------------------------------------
```

#PMHDRDS

```
                    COPY #PMHDRDS
                  ********************************************************************
                  ***                                                              ***
                  ***      #PMHDR - PERFORMANCE MONITOR RECORD HEADER               ***
                  ***                                                              ***
                  ***      COPYRIGHT (C) 2007 CA. ALL RIGHTS RESERVED.             ***
                  ***                                                              ***
                  ***                                                              ***
                  ***                                                              ***
                  ********************************************************************
                  *
                  *        DESCRIBES THE HEADER PORTION OF EACH RECORD WRITTEN
                  *              BY THE PERFORMANCE MONITOR TO THE DC LOG OR TO SMF
                  *
                  *        FOR RECORDS WRITTEN TO THE DC LOG AND FOR RECORDS
                  *              REFORMATTED BY THE PMRSMFEX REPORT
                  *              THE RECORD HEADER BEGINS AT FIELD PMSFIXE
                  *                 (SEE #PMSTLDS DSECT)
                  *
                  *        FOR RECORDS WRITTEN TO SMF, THE RECORD HEADER
                  *              FOR THE FIRST PERFMON RECORD IN THE SMF
                  *              RECORD BEGINS AT FIELD SMFHDATA
                  *                 (SEE #PMSMHDS DSECT)
                  *
                  *-------------------------------------------------------------------
                  *

Offset  Value

000000            #PMHDR   DSECT                                          11/24/95
                  *
                  *-------------------------------------------------------------------
                  *
000000            PMHLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
                  *
000002            PMHRTYPE DS    X                  PERFORMANCE MONITOR RECORD TYPE
                  *
           00001  PMH$ARA  EQU     1                ..PMIM AREA WAIT RECORD
           00002  PMH$BUF  EQU     2                ..PMIM BUFFER WAIT RECORD
           00003  PMH$CDM  EQU     3                ..PMIM CDMSLIB WAIT RECORD
           00004  PMH$INS  EQU     4                ..PMIM INTERVAL STAT RECORD
           00005  PMH$INT  EQU     5                ..PMIM INTERVAL WAIT RECORD
           00006  PMH$JRL  EQU     6                ..PMIM JOURNAL WAIT RECORD
           00007  PMH$LNE  EQU     7                ..PMIM LINE WAIT RECORD
           00008  PMH$PGM  EQU     8                ..PMIM PROGRAM POOL WAIT RECORD
           00009  PMH$RUS  EQU     9                ..PMIM RUNUNIT STAT RECORD
           0000A  PMH$STG  EQU    10                ..PMIM STORAGE POOL STAT RECORD
           0000B  PMH$YPE  EQU    11                ..PMIM STORAGE TYPE WAIT RECORD
```

```
        0000C  PMH$DBG  EQU    12                ..PMIM DBGROUP WAIT RECORD
        0000D  PMH$XLK  EQU    13                ..PMIM DSG XESLOCK WAIT RECORD
        0000E  PMH$XLI  EQU    14                ..PMIM DSG XESLIST WAIT RECORD
        0000F  PMH$XMS  EQU    15                ..PMIM DSG XCF MSG WAIT RECORD
               *
        00010  PMH$TAS  EQU    16                ..PMAM TASK INFORMATION RECORD
        00011  PMH$TAW  EQU    17                ..PMAM TASK WAIT RECORD
        00012  PMH$DBK  EQU    18                ..PMAM DBKEY WAIT RECORD
               *
        00001  PMHIMLO  EQU     1                LOW  PMIM REC TYPE
        0000F  PMHIMHI  EQU    15                HIGH PMIM REC TYPE
        00010  PMHAMLO  EQU    16                LOW  PMAM REC TYPE
        00012  PMHAMHI  EQU    18                HIGH PMAM REC TYPE
               *
               *-------------------------------
               *
000003         PMHSEQ#  DS    X                 SEQUENCE NUMBER
               *
000004         PMHVER#  DS    X                 RECORD VERSION #
000005                  DS    XL3               ** RESERVED **
               *
               *-------------------------------
               *
000008         PMHTSKID DS   0F                 PMAM - TASKID
000008                  DS   0F                 PMIM - RESERVED
000008                  DS    F
               *
               *        PMAM - FOLLOWING ARE FOR THE TASK
               *        PMIM - FOLLOWING ARE FOR THE INTERVAL
               *
00000C         PMHSDATE DS    PL4               START DATE           (00YYDDDF)
000010         PMHSTIME DS    F                 START TIME           (10**-4 SEC)
               *
000014         PMHEDATE DS    PL4               END DATE             (00YYDDDF)
000018         PMHETIME DS    F                 END TIME             (10**-4 SEC)
               *
               *-----------------------------------------------------------------
               *
        0001C  PMHDSLEN EQU   *-#PMHDR          HEADER LENGTH
               *
               *-----------------------------------------------------------------
```

#PMINSDS

```
                        COPY #PMINSDS
               ********************************************************************
               ***                                                              ***
               ***      #PMINS - PMIM INTERVAL STATISTICS RECORD                ***
               ***                                                              ***
               ***      COPYRIGHT (C) 2010 CA. ALL RIGHTS RESERVED.             ***
               ***                                                              ***
               ***                                                              ***
               ***                                                              ***
               ********************************************************************
               *
               *        ONE INTERVAL STATS RECORD PER INTERVAL
               *
               *------------------------------------------------------------------
               *

Offset  Value

000000         #PMINS   DSECT                                    22:24:15
               *
               *------------------------------------------------------------------
               *
000000         INSHDR   DS   0H                  RECORD HEADER
               *
000000         INSLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002         INSRTYPE DS    X                  RECORD TYPE
        00004  INS$TYPE EQU       4              ..PMIM INTERVAL STAT RECORD
000003         INSSEQ#  DS    X                  SEQUENCE NUMBER       (ALWAYS 1)
000004         INSVER#  DS    X                  RECORD VERSION
        00001  INS$VER  EQU       1              ..CURRENT VERSION
000005                  DS    XL3                ** RESERVED **
               *
000008                  DS    F                  ** RESERVED **
00000C         INSSDATE DS    PL4                INTERVAL START DATE   (00YYYDDF)
000010         INSSTIME DS    F                  INTERVAL START TIME   (10**-4 SEC)
000014         INSEDATE DS    PL4                INTERVAL END DATE     (00YYYDDF)
000018         INSETIME DS    F                  INTERVAL END TIME     (10**-4 SEC)
               *
        0001C  INSHDRLN EQU   *-INSHDR           HEADER LENGTH
               *
               *------------------------------------------------------------------
               *
        0001C  INSDATA  EQU   *                  START OF INTERVAL STATISTIC DATA
               *
               *------------------------------------------------------------------
               *
               *        PART1 - INSSEQ#=1
               *
```

```
                *-------------------------------------------------------------
00001C          INSINTSZ DS    F                  SIZE OF INTERVAL      (10**-4 SEC)
                *
000020          INS#TSTR DS    F                  # TASKS STARTED IN INTERVAL
000024          INS#TEND DS    F                  # TASKS ENDED DURING INTERVAL
000028          INS#TACS DS    F                  # TASKS ACTIVE AT INTVL START
00002C          INS#TACE DS    F                  # TASKS ACTIVE AT INTVL END
000030          INS#TABN DS    F                  # TASKS ABENDED DURING INTVL
000034          INS#TOUT DS    F                  # TASKS TIMED OUT (SINGLE ECB)
000038          INS#TOUL DS    F                  # TASKS TIMED OUT (ECB LIST)
00003C          INS#MXTK DS    F                  # TIMES AT MAX TASK IN INTVL
                *
000040          INS#HASH DS    F                  # DBKEY HASH TBL ENTRIES(CCESTCHT)
000044          INS#SYN  DS    F                  # DBKEY SYN TBL ENTRIES (CCESTCST)
                *
                *-------------------------------
                *
                *        INTERVAL DC STATISTICS
                *
000048          INSPGMCL DS    F                  # PGMS CALLED           (STCPGMCL)
00004C          INSPGMLD DS    F                  # PGMS LOADED   (STCPGMLD+STRPGLRP+
                *                                                    STRXPLDS+STRXPLRP)
000050          INSTRMRD DS    F                  # TERMINAL READS        (STCTRMRD)
000054          INSTRMWR DS    F                  # TERMINAL WRITES       (STCTRMWR)
000058          INSTRMER DS    F                  # TERMINAL ERRORS       (STCTRMER)
00005C          INSSTGGT DS    F                  # STORAGE GETS          (STCSTGGT)
000060          INSSTGFR DS    F                  # STORAGE FREES         (STCSTGFR)
000064          INSSCRGT DS    F                  # SCRATCH GETS          (STCSCRGT)
000068          INSSCRPT DS    F                  # SCRATCH PUTS          (STCSCRPT)
00006C          INSSCRDL DS    F                  # SCRATCH DELETES       (STCSCRDL)
000070          INSQUEGT DS    F                  # QUEUE GETS            (STCQUEGT)
000074          INSQUEPT DS    F                  # QUEUE PUTS            (STCQUEPT)
000078          INSQUEDL DS    F                  # QUEUE DELETES         (STCQUEDL)
00007C          INSSVRQS DS    F                  # DC SERVICE RQSTS      (STCSVRQS)
000080          INSDBRQS DS    F                  # DB SERVICE RQSTS      (STCDBRQS)
000084          INSTIMSY DS    F                  SYSTEM MODE CPU TIME    (STCTIMSY)
000088          INSTIMUS DS    F                  USER MODE CPU TIME      (STCTIMUS)
                *
00008C                  DS   2F                  ** RESERVED **
                *
                *-------------------------------------------------------------
                *
        00094   INS1DSLN EQU   *-#PMINS           PART1 - LENGTH OF RECORD
                *
        00078   INS1DTLN EQU   INS1DSLN-INSHDRLN  PART1 - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------
                *
000094                  ORG   INSDATA
```

```
                *
                *-------------------------------------------------------------
                *
                *        PART2 - INSSEQ#=2
                *
                *-------------------------------------------------------------
                *
                *        Extended statistics                                R180
                *
                *-------------------------------------------------------------
000020          INSXBEG  DS    0D                 Beginning of Extended statistics
000020          INSSYTI  DS    D                  CPU time in TOD
000028          INSCPTI  DS    D                  SRB CPU time on CP in TOD
000030          INSZPTI  DS    D                  SRB CPU time on zIIP in TOD
000038          INSUSTI  DS    D                  User mode time in TOD
000040          INSTTTI  DS    D                  TCB CPU time in TOD
000048          INSENTI  DS    D                  Total enclave SRB CPU time in TOD
000050                   DS    14D                Reserved
0000C0          INSXEND  DS    0D                 End of Extended statistics
                *
                *-------------------------------------------------------------
                *
         000C0  INS2DSLN EQU   *-#PMINS           PARTS - LENGTH OF RECORD
         000A4  INS2DTLN EQU   INS2DSLN-INSHDRLN  PARTS - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------
                *
0000C0                   ORG   ,
                *
         000C0  INSMXLEN EQU   ((*-#PMINS+7)/8*8)  LENGTH OF LARGEST PART
                *
         00000  INS#BKTS EQU   0                  # WAIT BUCKETS ENTIRE RECORD
                *
                *-------------------------------------------------------------
```

#PMINTDS

```
                        COPY #PMINTDS
                ********************************************************************
                ***                                                              ***
                ***      #PMINT - PMIM INTERVAL WAIT SUMMARY DATA                ***
                ***                                                              ***
                ***      COPYRIGHT (C) 2010 CA. ALL RIGHTS RESERVED.             ***
                ***                                                              ***
                ***                                                              ***
                ***                                                              ***
                ********************************************************************
                *
                *        ONE INTERVAL WAIT RECORD PER INTERVAL
                *
                *------------------------------------------------------------------
                *

Offset  Value

000000          #PMINT   DSECT                                           09/30/99
                *
                *------------------------------------------------------------------
                *
000000          INTHDR   DS    0H                RECORD HEADER
                *
000000          INTLEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002          INTRTYPE DS    X                 RECORD TYPE
        00005   INT$TYPE EQU       5             ..PMIM INTERVAL WAIT RECORD
000003          INTSEQ#  DS    X                 SEQUENCE NUMBER
000004          INTVER#  DS    X                 RECORD VERSION
        00001   INT$VER  EQU       1             ..CURRENT VERSION
000005                   DS    XL3               ** RESERVED **
                *
000008                   DS    F                 ** RESERVED **
00000C          INTSDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010          INTSTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014          INTEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018          INTETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
                *
        0001C   INTHDRLN EQU   *-INTHDR          HEADER LENGTH
                *
                *------------------------------------------------------------------
                *
        0001C   INTDATA  EQU   *                 START OF INTERVAL SUMMARY DATA
                *
                *------------------------------------------------------------------
                *
                *        PART1 - INTSEQ#=1
                *
```

```
                *-----------------------------------------------------------------
                *
00001C          INT#TSTR DS    F                  # TASKS STARTED IN INTERVAL
000020          INT#TEND DS    F                  # TASKS ENDED DURING INTERVAL
000024          INTTIMSY DS    F                  SYSTEM MODE CPU TIME  (10**-4 SEC)
000028          INTTIMUS DS    F                  USER MODE CPU TIME    (10**-4 SEC)
00002C                   DS    F                  ** RESERVED **
                *
                *------------------------------
                *
000030          INT1BKTS DS   0F                  PART1 - START OF WAIT TIME BUCKETS
                *
000030          INTDBIR  DS   0F                  DBIO READ WAIT
000030          INTDBIRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000034          INTDBIRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000038          INTDBIR# DS    F                  ....# WAITS
                *
00003C          INTDBIW  DS   0F                  DBIO WRITE WAIT
00003C          INTDBIWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000040          INTDBIWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000044          INTDBIW# DS    F                  ....# WAITS
                *
000048          INTFCBX  DS   0F                  DBIO WAITING ON PRIOR I/O (DOS)
000048          INTFCBXT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00004C          INTFCBXH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000050          INTFCBX# DS    F                  ....# WAITS
                *
000054          INTDBFR  DS   0F                  DB BUFFER WAIT
000054          INTDBFRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000058          INTDBFRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00005C          INTDBFR# DS    F                  ....# WAITS
                *
000060          INTJRLR  DS   0F                  JRNL READ WAIT
000060          INTJRLRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000064          INTJRLRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000068          INTJRLR# DS    F                  ....# WAITS
                *
00006C          INTJRLW  DS   0F                  JRNL WRITE WAIT
00006C          INTJRLWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000070          INTJRLWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000074          INTJRLW# DS    F                  ....# WAITS
                *
000078          INTJBFR  DS   0F                  JRNL BUFFER WAIT
000078          INTJBFRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00007C          INTJBFRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000080          INTJBFR# DS    F                  ....# WAITS
                *
000084          INTLOGR  DS   0F                  DCLOG READ WAIT
000084          INTLOGRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
```

```
000088          INTLOGRH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
00008C          INTLOGR# DS    F                    ....# WAITS
                *
000090          INTLOGW  DS   0F                    DCLOG WRITE WAIT
000090          INTLOGWT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
000094          INTLOGWH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
000098          INTLOGW# DS    F                    ....# WAITS
                *
00009C          INTLOGS  DS   0F                    DCLOG SINGLE THREAD WAIT
00009C          INTLOGST DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000A0          INTLOGSH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000A4          INTLOGS# DS    F                    ....# WAITS
                *
0000A8          INTLOGF  DS   0F                    DCLOG FULL WAIT
0000A8          INTLOGFT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000AC          INTLOGFH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000B0          INTLOGF# DS    F                    ....# WAITS
                *
0000B4          INTSCRR  DS   0F                    SCRATCH READ WAIT
0000B4          INTSCRRT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000B8          INTSCRRH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000BC          INTSCRR# DS    F                    ....# WAITS
                *
0000C0          INTSCRW  DS   0F                    SCRATCH WRITE WAIT
0000C0          INTSCRWT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000C4          INTSCRWH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000C8          INTSCRW# DS    F                    ....# WAITS
                *
0000CC          INTSCRS  DS   0F                    SCRATCH SINGLE THREAD WAIT
0000CC          INTSCRST DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000D0          INTSCRSH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000D4          INTSCRS# DS    F                    ....# WAITS
                *
0000D8          INTQUER  DS   0F                    QUEUE READ WAIT
0000D8          INTQUERT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000DC          INTQUERH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000E0          INTQUER# DS    F                    ....# WAITS
                *
0000E4          INTQUEW  DS   0F                    QUEUE WRITE WAIT
0000E4          INTQUEWT DS    F                    ....SUM OF WAIT TIMES (10**-4 SEC)
0000E8          INTQUEWH DS    F                    ....HIGHEST WAIT TIME (10**-4 SEC)
0000EC          INTQUEW# DS    F                    ....# WAITS
                *
                *-------------------------------------------------------------------
                *
0000F0                   DS   0F
        000F0   INT1DSLN EQU   *-#PMINT             PART1 - LENGTH OF RECORD
                *
                *
```

```
        00010  INT1#BKT EQU   16                  PART1 - # WAIT BUCKETS
        000D4  INT1DTLN EQU   INT1DSLN-INTHDRLN   PART1 - LENGTH OF RECORD DATA
               *
               *-------------------------------------------------------------------
               *
0000F0                 ORG   INTDATA
               *
               *-------------------------------------------------------------------
               *
               *        PART2 - INTSEQ#=2
               *
               *-------------------------------------------------------------------
               *
00001C         INT2BKTS DS   0F                  PART2 - START OF WAIT TIME BUCKETS
               *
00001C         INTDBKY  DS   0F                  DBKEY WAIT
00001C         INTDBKYT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000020         INTDBKYH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000024         INTDBKY# DS    F                  ....# WAITS
               *
000028         INTSTGP  DS   0F                  STORAGE POOL WAIT
000028         INTSTGPT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00002C         INTSTGPH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000030         INTSTGP# DS    F                  ....# WAITS
               *
000034         INTPGMP  DS   0F                  PGMPOOL WAIT
000034         INTPGMPT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000038         INTPGMPH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00003C         INTPGMP# DS    F                  ....# WAITS
               *
000040         INTPGML  DS   0F                  PGM LOAD WAIT
000040         INTPGMLT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000044         INTPGMLH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000048         INTPGML# DS    F                  ....# WAITS
               *
00004C         INTLDRS  DS   0F                  LOADER SINGLE THREAD WAIT
00004C         INTLDRST DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000050         INTLDRSH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000054         INTLDRS# DS    F                  ....# WAITS
               *
000058         INTACCS  DS   0F                  AREA ACCESS WAIT
000058         INTACCST DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00005C         INTACCSH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000060         INTACCS# DS    F                  ....# WAITS
               *
000064         INTERUS  DS   0F                  ERUS WAIT
000064         INTERUST DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000068         INTERUSH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00006C         INTERUS# DS    F                  ....# WAITS
```

```
                *
000070          INTDDSW  DS   0F                 DDS WAIT
000070          INTDDSWT DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
000074          INTDDSWH DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
000078          INTDDSW# DS    F                 ....# WAITS
                *
00007C          INTCKUS  DS   0F                 AVAILABLE CHKUSER WAIT
00007C          INTCKUST DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
000080          INTCKUSH DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
000084          INTCKUS# DS    F                 ....# WAITS
                *
000088          INTTPIR  DS   0F                 TPIO READ WAIT
000088          INTTPIRT DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
00008C          INTTPIRH DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
000090          INTTPIR# DS    F                 ....# WAITS
                *
000094          INTTPIW  DS   0F                 TPIO WRITE WAIT
000094          INTTPIWT DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
000098          INTTPIWH DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
00009C          INTTPIW# DS    F                 ....# WAITS
                *
0000A0          INTTCA   DS   0F                 TCA NEW TASK WAIT
0000A0          INTTCAT  DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000A4          INTTCAH  DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000A8          INTTCA#  DS    F                 ....# WAITS
                *
0000AC          INTDBG   DS   0F                 DBGROUP WAIT
0000AC          INTDBGT  DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000B0          INTDBGH  DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000B4          INTDBG#  DS    F                 ....# WAITS
                *
0000B8          INTSHC   DS   0F                 SHARED CACHE WAIT
0000B8          INTSHCT  DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000BC          INTSHCH  DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000C0          INTSHC#  DS    F                 ....# WAITS
                *
0000C4          INTOTHE  DS   0F                 OTHER EXTERNAL WAIT
0000C4          INTOTHET DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000C8          INTOTHEH DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000CC          INTOTHE# DS    F                 ....# WAITS
                *
0000D0          INTOTHR  DS   0F                 OTHER WAITS
0000D0          INTOTHRT DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000D4          INTOTHRH DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
0000D8          INTOTHR# DS    F                 ....# WAITS
                *
0000DC          INTXLK   DS   0F                 DSG XESLOCK WAIT
0000DC          INTXLKT  DS    F                 ....SUM OF WAIT TIMES (10**-4 SEC)
0000E0          INTXLKH  DS    F                 ....HIGHEST WAIT TIME (10**-4 SEC)
```

```
0000E4          INTXLK#  DS    F                   ....# WAITS
                *
0000E8          INTXLI   DS   0F                   DSG XESLIST WAIT
0000E8          INTXLIT  DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
0000EC          INTXLIH  DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000F0          INTXLI#  DS    F                   ....# WAITS
                *
                *-------------------------------------------------------------------
                *
0000F4                   DS   0F
        000F4   INT2DSLN EQU   *-#PMINT            PART2 - LENGTH OF RECORD
                *
                *
        00012   INT2#BKT EQU   18                  PART2 - # WAIT BUCKETS
        000D8   INT2DTLN EQU   INT2DSLN-INTHDRLN   PART2 - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
                *
0000F4                   ORG   INTDATA
                *
                *-------------------------------------------------------------------
                *
                *        PART3 - INTSEQ#=3
                *
                *-------------------------------------------------------------------
                *
                *        Extended statistics                                  R180
                *
                *-------------------------------------------------------------------
000020          INTXBEG  DS    0D                  Beginning of Extended statistics
000020          INTSYTI  DS    D                   CPU time in TOD
000028          INTCPTI  DS    D                   SRB CPU time on CP in TOD
000030          INTZPTI  DS    D                   SRB CPU time on zIIP in TOD
000038          INTUSTI  DS    D                   User mode time in TOD
000040          INTTTTI  DS    D                   TCB CPU time in TOD
000048          INTENTI  DS    D                   Total enclave SRB CPU time in TOD
000050                   DS    14D                 Reserved
0000C0          INTXEND  DS    0D                  End of Extended statistics
                *
                *-------------------------------------------------------------------
                *
        000C0   INT3DSLN EQU   *-#PMINT            PART3 - LENGTH OF RECORD
        000A4   INT3DTLN EQU   INT3DSLN-INTHDRLN   PART3 - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
                *
0000C0                   ORG   ,
                *
        000F8   INTMXLEN EQU   ((*-#PMINT+7)/8*8)  LENGTH OF LARGEST PART
```

```
       *
00022  INT#BKTS EQU   INT1#BKT+INT2#BKT   # WAIT BUCKETS ENTIRE RECORD
       *
       *-------------------------------------------------------------------
```

#PMJRLDS

```
                COPY #PMJRLDS
              ********************************************************************
              ***                                                              ***
              ***      #PMJRL - PMIM JOURNAL WAIT RECORD                       ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE FOR EACH DISK JOURNAL IN DMCL
              *
              *------------------------------------------------------------------
              *

Offset  Value

000000        #PMJRL   DSECT                                          12/27/94
              *
              *------------------------------------------------------------------
              *
000000        JRLHDR   DS   0H                 RECORD HEADER
              *
000000        JRLLEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002        JRLRTYPE DS    X                 RECORD TYPE
       00006  JRL$TYPE EQU       6             ..PMIM JOURNAL WAIT RECORD
000003        JRLSEQ#  DS    X                 SEQUENCE NUMBER       (ALWAYS 1)
000004        JRLVER#  DS    X                 RECORD VERSION
       00001  JRL$VER  EQU       1             ..CURRENT VERSIONA
000005                 DS    XL3               ** RESERVED **
              *
000008                 DS    F                 ** RESERVED **
00000C        JRLSDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010        JRLSTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014        JRLEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018        JRLETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  JRLHDRLN EQU   *-JRLHDR          HEADER LENGTH
              *
              *------------------------------------------------------------------
              *
       0001C  JRLDATA  EQU   *                 START OF JOURNAL DATA
              *
00001C        JRLNAME  DS    CL27              NAME OF JOURNAL
000037        JRLFILE  DS    CL8               DD NAME OF JOURNAL
00003F                 DS    X                 ** RESERVED **            PERF/109
000040        JRLBRBN  DS    F                 FIRST RBN WRITTEN IN INTVL
000044        JRLERBN  DS    F                 LAST  RBN WRITTEN IN INTVL
```

```
000048         JRL#BLKW DS    F                  # BLOCKS WRITTEN DURING INTVL
00004C         JRL#BYTW DS    F                  # BYTES WRITTEN DURING INTVL
000050         JRLPGSZ  DS    F                  PAGE SIZE OF JRNL
000054                  DS    F                  ** RESERVED **
               *
               *-------------------------------------------------------------
               *
000058         JRLWBKTS DS   0F                  START OF WAIT TIME STATISTICS
               *
000058         JRLJRLR  DS   0F                  JRNL READ WAIT
000058         JRLJRLRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00005C         JRLJRLRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000060         JRLJRLR# DS    F                  ....# WAITS
               *
Offset  Value

000064         JRLJRLW  DS   0F                  JRNL WRITE WAIT
000064         JRLJRLWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000068         JRLJRLWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00006C         JRLJRLW# DS    F                  ....# WAITS
               *
000070         JRLJBFR  DS   0F                  JRNL BUFFER WAIT
000070         JRLJBFRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000074         JRLJBFRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000078         JRLJBFR# DS    F                  ....# WAITS
               *
00007C         JRLJBEE  DS   0F                  JBEE WAIT
00007C         JRLJBEET DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000080         JRLJBEEH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000084         JRLJBEE# DS    F                  ....# WAITS
               *        DS    F
               *
000088         JRLJBC   DS   0F                  JBC WAIT
000088         JRLJBCT  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00008C         JRLJBCH  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000090         JRLJBC#  DS    F                  ....# WAITS
               *
000094                  DS   0F                  ** RESERVED **
000094                  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000098                  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00009C                  DS    F                  ....# WAITS
               *
               *-------------------------------------------------------------
               *
       000A0   JRLDSLEN EQU   ((*-#PMJRL+3)/4)*4  LENGTH OF LOG RECORD
               *
               *-------------------------------------------------------------
               *
       00005   JRL#BKTS EQU   5                  # WAIT BUCKETS
```

```
00084  JRLDTLEN EQU   JRLDSLEN-JRLHDRLN   LENGTH OF RECORD DATA
       *
       *-----------------------------------------------------------------
```

#PMLNEDS

```
                COPY #PMLNEDS
              ********************************************************************
              ***                                                              ***
              ***      #PMLNE - PMIM LINE WAIT RECORD                          ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE LINE WAIT RECORD FOR EACH LINE IN SYSGEN
              *
              *-----------------------------------------------------------------
              *

Offset  Value

000000        #PMLNE   DSECT                                          07/11/91
              *
              *-----------------------------------------------------------------
              *
000000        LNEHDR   DS    0H                RECORD HEADER
              *
000000        LNELEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002        LNERTYPE DS    X                 RECORD TYPE
       00007  LNE$TYPE EQU       7             ..PMIM LINE WAIT RECORD
000003        LNESEQ#  DS    X                 SEQUENCE NUMBER       (ALWAYS 1)
000004        LNEVER#  DS    X                 RECORD VERSION
       00001  LNE$VER  EQU       1             ..CURRENT VERSION
000005                 DS    XL3               ** RESERVED **
              *
000008                 DS    F                 ** RESERVED **
00000C        LNESDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010        LNESTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014        LNEEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018        LNEETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  LNEHDRLN EQU   *-LNEHDR          HEADER LENGTH
              *
              *-----------------------------------------------------------------
              *
       0001C  LNEDATA  EQU   *                 START OF LINE DATA
              *
00001C        LNENAME  DS    CL8               NAME OF LINE
000024        LNEDRVR  DS    CL8               NAME OF LINE DRIVER
              *
00002C        LNELTYPE DS   0CL2
00002C        LNETYPE  DS    C                 LINE TYPE              (PLETYPE)
```

```
00002D          LNEMETH  DS    C                   ACCESS METHOD           (PLEMETH)
00002E          LNE#TERM DS    H                   # TERMINALS ON THE LINE (PLENTERM)
                *
000030          LNESTATS DS    X                   STATUS AT INTVL START   (PLEFLAGS)
000031          LNESTATE DS    X                   STATUS AT INTVL END     (PLEFLAGS)
000032                   DS    H                   ** RESERVED **
                *
000034          LNE#READ DS    F                   # READS
000038          LNE#WRIT DS    F                   # WRITES
00003C          LNE#RDER DS    F                   # READ ERRORS
000040          LNE#WRER DS    F                   # WRITE ERRORS
                *
000044          LNEBLEN  DS    F                   # CHARS BEFORE COMPACT  (PLEBLEN)
000048          LNECLEN  DS    F                   # CHARS AFTER COMPACT   (PLECLEN)
Offset  Value

                *
00004C          LNE#RPLS DS    H                   # RPLS SYSGENNED        (PLE5NRPL)
00004E                   DS    H                   ** RESERVED **
                *
000050          LNE#RPLQ DS    F                   # RPL REQUESTS          (PLE5QRPL)
000054          LNE#RPLW DS    F                   # RPL WAITS             (PLE5WRPL)
                * IF HAVE AN RPL WAIT BUCKET, NEED ABOVE?
                *  (ABOVE IS FROM PLE.  WAIT BUCKET IS FROM CECB.
                *   SO MAY DIFFER THO WHY I CAN'T SAY.)
                *
000058          LNE#BYTR DS    F                   # BYTES READ
00005C          LNE#BYTW DS    F                   # BYTES WRITTEN
                *                                 CAN WE DO THESE?
000060                   DS    F                     ** RESERVED **
                *
                *-------------------------------------------------------------------
                *
000064          LNEWBKTS DS   0F                   START OF WAIT TIME STATISTICS
                *
000064          LNETPIR  DS   0F                   TERMINAL READ WAIT
000064          LNETPIRT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
000068          LNETPIRH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
00006C          LNETPIR# DS    F                   ....# WAITS
                *
000070          LNETPIW  DS   0F                   TERMINAL WRITE WAIT
000070          LNETPIWT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
000074          LNETPIWH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
000078          LNETPIW# DS    F                   ....# WAITS
                *
00007C          LNERPL   DS   0F                   RPL WAIT
00007C          LNERPLT  DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
000080          LNERPLH  DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
000084          LNERPL#  DS    F                   ....# WAITS
```

```
                *
000088                  DS   0F                  ** RESERVED **
000088                  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00008C                  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000090                  DS    F                  ....# WAITS
                *
                *-------------------------------------------------------------------
                *
        00094   LNEDSLEN EQU   ((*-#PMLNE+3)/4)*4  LENGTH OF LOG RECORD
                *
                *-------------------------------------------------------------------
                *
        00003   LNE#BKTS EQU   3                   # WAIT BUCKETS
        00078   LNEDTLEN EQU   LNEDSLEN-LNEHDRLN   LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
```

#PMPGMDS

```
                COPY #PMPGMDS
              ********************************************************************
              ***                                                              ***
              ***      #PMPGM - INTERVAL MONITOR PROGRAM POOL WAIT DATA         ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED. ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE FOR EACH PROGRAM POOL IN SYSGEN
              *
              *-------------------------------------------------------------------
              *
```

Offset Value

```
000000        #PMPGM   DSECT                                          04/20/88
              *
              *-------------------------------------------------------------------
              *
000000        PGMHDR   DS   0H                 RECORD HEADER
              *
000000        PGMLEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002        PGMRTYPE DS    X                 RECORD TYPE
       00008  PGM$TYPE EQU       8             ..PMIM PROGRAM POOL WAIT RECORD
000003        PGMSEQ#  DS    X                 SEQUENCE NUMBER       (ALWAYS 1)
000004        PGMVER#  DS    X                 RECORD VERSION
       00001  PGM$VER  EQU       1             ..CURRENT VERSION
000005                 DS    XL3               ** RESERVED **
              *
000008                 DS    F                 ** RESERVED **
00000C        PGMSDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010        PGMSTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014        PGMEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018        PGMETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  PGMHDRLN EQU   *-PGMHDR          HEADER LENGTH
              *
              *-------------------------------------------------------------------
              *
       0001C  PGMDATA  EQU   *                 START OF PROGRAM POOL DATA
              *
00001C        PGMPTYPE DS    X                 POOL TYPE               (PDTPTYP)
       00080  PGMPP24  EQU   X'80'               24 BIT PROGRAM POOL
       00040  PGMRP24  EQU   X'40'               24 BIT REENTRANT POOL
       00020  PGMPP31  EQU   X'20'               31 BIT PROGRAM POOL
       00010  PGMRP31  EQU   X'10'               31 BIT REENTRANT POOL
```

```
                *
00001D                  DS    X                  **  RESERVED  **
00001E          PGMPGSZ  DS    H                  PGMPOOL PAGE SIZE         (PDTPAGSZ)
000020          PGM#PGS  DS    F                  # PAGES IN POOL           (PDTNPAGE)
                *
000024          PGMINUSE DS    F                  # PGS IN USE AT INTVL END (PDTNPAGO)
000028          PGMHIWAT DS    F                  # PGS IN USE HI WATERMARK (PDTNHWM)
00002C          PGM#PGLD DS    F                  # PAGES LOADED
                *
000030          PGM#OVNU DS    F                  # LDS INTO SPACE NOT USED (PDTNPRGA)
000034          PGM#OVPU DS    F                  # OVLYS OF PGM NOT IN USE (PDTNPRGN)
000038          PGM#OVIU DS    F                  # OVLYS OF PGM IN USE     (PDTNPRGU)
00003C          PGM#LODS DS    F                  # LOADS TO POOL
000040                   DS    F                  ** RESERVED **
Offset  Value

                *
                *-------------------------------------------------------------------
                *
000044          PGMWBKTS DS   0F                  START OF WAIT TIME STATISTICS
                *
000044          PGMPGML  DS   0F                  LOAD WAIT
000044          PGMPGMLT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000048          PGMPGMLH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00004C          PGMPGML# DS    F                  ....# WAITS
                *
000050          PGMPGMP  DS   0F                  POOL SPACE WAIT
000050          PGMPGMPT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000054          PGMPGMPH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000058          PGMPGMP# DS    F                  ....# WAITS
                *
00005C                   DS   0F                  ** RESERVED **
00005C                   DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000060                   DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000064                   DS    F                  ....# WAITS
                *
                *-------------------------------------------------------------------
                *
        00068   PGMDSLEN EQU   ((*-#PMPGM+3)/4)*4  LENGTH OF LOG RECORD
                *
                *-------------------------------------------------------------------

                *
        00002   PGM#BKTS EQU   2                  # WAIT BUCKETS
        0004C   PGMDTLEN EQU   PGMDSLEN-PGMHDRLN   LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
```

#PMRUSDS

```
                COPY #PMRUSDS
              ********************************************************************
              ***                                                              ***
              ***      #PMRUS - INTERVAL RUNUNITS INFORMATION RECORD           ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE PER INTERVAL
              *
              *-----------------------------------------------------------------
              *

Offset  Value

000000        #PMRUS   DSECT
              *
              *-----------------------------------------------------------------
              *
000000        RUSHDR   DS   0H                  RECORD HEADER
              *
000000        RUSLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002        RUSRTYPE DS    X                  RECORD TYPE
       00009  RUS$TYPE EQU       9              ..PMIM RUNUNIT WAIT RECORD
000003        RUSSEQ#  DS    X                  SEQUENCE NUMBER       (ALWAYS 1)
000004        RUSVER#  DS    X                  RECORD VERSION
       00001  RUS$VER  EQU       1              ..CURRENT VERSION
000005                 DS    XL3                ** RESERVED **
              *
000008                 DS    F                  ** RESERVED **
00000C        RUSSDATE DS    PL4                INTERVAL START DATE   (00YYYDDF)
000010        RUSSTIME DS    F                  INTERVAL START TIME   (10**-4 SEC)
000014        RUSEDATE DS    PL4                INTERVAL END DATE     (00YYYDDF)
000018        RUSETIME DS    F                  INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  RUSHDRLN EQU   *-RUSHDR           HEADER LENGTH
              *
              *-----------------------------------------------------------------
              *
       0001C  RUSDATA  EQU   *                  START OF RUNUNIT DATA
              *
00001C        RUS#RU   DS    F                  # RUNUNITS STARTED DURING INTVL
000020        RUS#EXRU DS    F                  # EXT. RUS STARTED DURING INTVL
000024        RUS#RUNM DS    F                  # RUNUNITS ENDED NORMAL IN INTVL
000028        RUS#EXNM DS    F                  # EXT. RUS ENDED NORMAL IN INTVL
00002C        RUS#MXRU DS    F                  # MAX CONCURRENT RUNUNITS
```

```
000030         RUS#MXEX DS    F                  # MAX CONCURRENT EXT. RUS
000034         RUS#DBKL DS    F                  # DBKEY LOCKS
000038         RUS#EXDB DS    F                  # EXTERNAL RUS WITH DB RUS
00003C         RUS#RACS DS    F                  # RUNUNITS ACTIVE AT INTVL START
000040         RUS#XACS DS    F                  # EXT. RUS ACTIVE AT INTVL START
000044         RUS#RACE DS    F                  # RUNUNITS ACTIVE AT INTVL END
000048         RUS#XACE DS    F                  # EXT. RUS ACTIVE AT INTVL END
00004C         RUS#SLOK DS    F                  # SYSTEM LOCKS
000050         RUSNXTRU DS    F                  # NEXT RUNUNIT ID TO ASSIGN
000054                  DS    F                  ** RESERVED **
               *
               *-------------------------------
               *
               * DB STATISTICS FOR INTERVAL
Offset  Value

               *
000058         RUSPAGRD DS    F                  # DB PAGES READ         (STBPAGRD)
00005C         RUSPAGWR DS    F                  # DB PAGES WRITTEN      (STBPAGWR)
000060         RUSPAGRQ DS    F                  # DB PAGES REQUESTED    (STBPAGRQ)
000064         RUSCALNO DS    F                  # DB CALC RECS NO OFLOW (STBCALNO)
000068         RUSCALOV DS    F                  # DB CALC RECS W/ OFLOW (STBCALOV)
00006C         RUSVIANO DS    F                  # DB VIA RECS NO OFLOW  (STBVIANO)
000070         RUSVIAOV DS    F                  # DB VIA RECS W/ OFLOW  (STBVIAOV)
000074         RUSRECRQ DS    F                  # DB RECORDS REQUESTED  (STBRECRQ)
000078         RUSRECCU DS    F                  # DB RECORDS CURR OF RU (STBRECCU)
00007C         RUSDBRQS DS    F                  # DB DBMS CALLS         (STBDBRQS)
000080         RUSFRAGS DS    F                  # DB FRAGMENTS STORED   (STBFRAGS)
000084         RUSUPCNT DS    F                  # DB RECORDS UPDATED    (STBUPCNT)
000088         RUSCACHE DS    F                  # DB RECS FND IN CACHE  (STBCACHE)
00008C         RUSPRFET DS    F                  # DB RECS FND IN PREFET (STBPRFET)
               *
               *-------------------------------
               *
               * JRNL BLOCK % FULL STATISTICS FOR INTERVAL
               *
000090         RUSPERC  DS  10H                  JRNL BLK % FULL BUCKETS (JBCPERC)
               *
               *-------------------------------
               *
               * SQL STATISTICS FOR INTERVAL
               *
0000A4         RUS#CMD  DS    F                  # OF SQL COMMANDS EXECUTED
0000A8         RUS#FET  DS    F                  # OF ROWS FETCHED
0000AC         RUS#INS  DS    F                  # OF ROWS INSERTED
0000B0         RUS#UPD  DS    F                  # OF ROWS UPDATED
0000B4         RUS#DEL  DS    F                  # OF ROWS DELETED
0000B8         RUS#SRT  DS    F                  # OF SORTS PERFORMED
0000BC         RUS#SRR  DS    F                  # OF ROWS SORTED
```

```
0000C0          RUS#SMI  DS    F                  # OF MINIMUM ROWS
0000C4          RUS#SMX  DS    F                  # OF MAXIMUM ROWS
0000C8          RUS#AMC  DS    F                  # OF AM RECOMPILES
                *
0000CC                   DS   3F                  ** RESERVED **
                *
                *-------------------------------------------------------------------
                *
          000D8 RUSDSLEN EQU   ((*-#PMRUS+3)/4)*4  LENGTH OF LOG RECORD
                *
                *-------------------------------------------------------------------
                *
          000BC RUSDTLEN EQU   RUSDSLEN-RUSHDRLN   LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
```

#PMSMHDS

```
                                COPY #PMSMHDS
               ********************************************************************
               ***                                                              ***
               ***      #PMSMH - PERFORMANCE MONITOR SMF HEADER                 ***
               ***                                                              ***
               ***      COPYRIGHT (C) 2010 CA. ALL RIGHTS RESERVED.             ***
               ***                                                              ***
               ***                                                              ***
               ***                                                              ***
               ********************************************************************
               *
               * DESCRIBES THE HEADER IN THE FRONT OF THE SMF RECORDS WRITTEN
               *     BY THE PERFORMANCE MONITOR
               *
               * THE FIRST PORTION OF THE PERFORMANCE MONITOR SMF HEADER IS
               *     THE STANDARD IBM SMF HEADER
               *
               *------------------------------------------------------------------
               *

Offset  Value

000000         #PMSMH   DSECT
               *
               *------------------------------------------------------------------
               *
000000         SMFHLEN  DS    H                  RECORD LENGTH
000002         SMFHSEG  DS    H                  SEGMENT DESCRIPTOR      (NOT USED)
               *
000004         SMFHFLG  DS    X                  SYSTEM INDICATOR
        00002  SMFHMVS  EQU   X'02'                  MVS
        00006  SMFHXA   EQU   X'06'                  MVS/XA
               *
000005         SMFHRTY  DS    X                  SMF RECORD TYPE
000006         SMFHTME  DS    XL4                TIME WRITTEN         (10**-2 SECS)
00000A         SMFHDTE  DS    PL4                DATE WRITTEN         (00YYDDDF)
00000E         SMFHSID  DS    CL4                SYSTEM IDENTIFICATION
               *
               *      END OF STANDARD IBM SMF HEADER
               *
               *------------------------------------------------------------------
               *
000012         SMFH#REC DS    H                  # OF PERFMON RECORDS IN THIS
               *                                     SMF RECORD
               *
000014         SMFHPMID DS    X                  COMPONENT ID
        00001  SMFHPMIM EQU   X'01'                  INTERVAL MONITOR
        00002  SMFHPMAM EQU   X'02'                  APPLICATION MONITOR
```

```
000015          SMFHCV#  DS    X                 CENTRAL VERSION #    (0-255)
000016          SMFHDCV# DS    H                 DC SYSTEM VERSION #  (1-9999)
                *
000018          SMFHVER  DS    CL4               PERFORMANCE MONITOR VERSION
        8F0F0   SMFH$VER EQU   C'1800'               RELEASE 18.0
00001C          SMFHJBN  DS    CL8               Job name for CV region       R180
                *
                *
        00024   SMFHDATA EQU   *                 LOCATION OF FIRST PERFMON RECORD
                *
                *-------------------------------------------------------------------
                *
        00024   SMHDSLEN EQU   *-#PMSMH          LENGTH
                *
                *-------------------------------------------------------------------
```

#PMSM4DS

```
                    COPY #PMSM4DS
               ********************************************************************
               ***                                                              ***
               ***      #PMSM4 - APPLICATION MONITOR SMF TYPE 4 RECORDS         ***
               ***                                                              ***
               ***      COPYRIGHT (C) 2010 CA. ALL RIGHTS RESERVED.             ***
               ***                                                              ***
               ***                                                              ***
               ***                                                              ***
               ********************************************************************
               *
               *        SMF TYPE 4 RECORDS - JOB STEP COMPLETION.
               *
               *        THE PERFORMANCE MONITOR WILL WRITE ONE SMF TYPE 4 RECORD
               *             FOR EACH TASK AT TASK TERMINATION IF DESIRED
               *
               *        FIELD NAMES USED ARE THE SAME AS THOSE SHOWN IN
               *             THE IBM SPL:SMF MANUAL
               *
               *------------------------------------------------------------------
               *

Offset  Value

000000         #PMSM4   DSECT                                        05/17/88
               *
               *------------------------------------------------------------------
               *
000000         SMF4LEN  DS    H                  RECORD LENGTH
000002         SMF4SEG  DS    H                  SEGMENT DESCRIPTOR - UNUSED
               *
000004         SMF4FLG  DS    X                  SYSTEM INDICATOR
        00002  SMF4MVS  EQU   X'02'              ..MVS
        00006  SMF4XA   EQU   X'06'              ..MVS/XA
               *
000005         SMF4RTY  DS    X                  SMF RECORD TYPE
        00004  SMF4$RTY EQU   X'04'              ..STEP TERMINATION RECORD TYPE
               *
000006         SMF4TME  DS    XL4                TIME RECORD WRITTEN   (10**-2 SEC)
00000A         SMF4DTE  DS    PL4                DATE RECORD WRITTEN   (00YYDDDF)
00000E         SMF4SID  DS    CL4                SYSTEM IDENTIFIER FROM CVT
               *
               *------------------------------------------------------------------
               *
000012         SMF4JBN  DS    CL8                JOBNAME OF CV JOB
00001A         SMF4RST  DS    XL4                DC TASK INIT TIME     (10**-2 SEC)
00001E         SMF4RSD  DS    PL4                DC TASK INIT DATE     (00YYDDDF)
               *
```

```
000022          SMF4UIF  DS    CL8               USER IDENTIFICATION
                *                                ..DC/UCF = USERID (FIRST 8 BYTES)
                *                                ..CICS   = OPERATOR ID
                *                                ..BATCH  = BATCH JOBNAME
                *
00002A 0        SMF4STN  DC    X'01'             STEP NUMBER - ALWAYS 01
00002B          SMF4SIT  DS    XL4               SAME AS SMF4RST-SEE ABOVE
00002F          SMF4STID DS    PL4               SAME AS SMF4RSD-SEE ABOVE
000033          SMF4NCI  DS    XL4               UNUSED
                *
000037          SMF4SCC  DS    XL2               COMPLETION INDICATOR
                *                                ..NORMAL COMPLETION = X'0000'
                *                                ..ABEND COMPLETION  = X'FFFF'
                *
000039          SMF4PRTY DS    XL1               IDMS-DC/UCF TASK PRIORITY
                *
00003A          SMF4PGMN DS    CL8               PROGRAM NAME IDENTIFIER
                *                                ..DC/UCF = PROGRAM NAME
                *                                ..ADSO   = DIALOG NAME
                *                                ..ERUS   = PROGRAM NAME FROM
                *                                           BIND RUNUNIT
                *
000042          SMF4STMN DS    CL8               STEP NAME  (TASK CODE IDENTIFIER)
                *                                ..DC/UCF = TASK CODE
                *                                ..ADSO   = APPLICATION NAME
                *                                ..BATCH  = BATCH JOBNAME
                *                                ..CICS   = TRANSACTION ID
                *
00004A          SMF4RSV5 DS    XL2               UNUSED
00004C          SMF4SYST DS    XL2               IDMS PGMPOOL HI WATERMARK IN KBYTES
00004E          SMF4H0ST DS    XL2               IDMS STGPOOL HI WATERMARK IN KBYTES
000050          SMF4RV1  DS    XL2               UNUSED
000052          SMF4RSHO DS    XL4               UNUSED
000056          SMF4SPK  DS    XL1               STORAGE PROTECT KEY OF CV
000057          SMF4STI  DS    XL1               STEP TERMINATION INDICATOR
        00000   SMF4$NRM EQU   X'00'              ..NORMAL COMPLETION
        00002   SMF4$ABD EQU   X'02'              ..ABEND
000058          SMF4RV2  DS    XL2               UNUSED
00005A          SMF4AST  DS    XL4               SAME AS SMF4RST
00005E          SMF4PPST DS    XL4               SAME AS SMF4RST
000062          SMF4RV3  DS    XL1               UNUSED
000063          SMF4SRBT DS    XL3               SRB (zIIP on CP + zIIP) (10**-2 SEC)
000066          SMF4RIN  DS    XL2               UNUSED
000068          SMF4RLCT DS    XL2               OFFSET TO RELOCATE SECTION
                *
00006A 0        SMF4LENN DC    XL2'000A'         LENGTH OF DEVICE ENTRY PORTION
00006C 2        SMF4DEVC DC    XL1'20'           DEVICE CLASS = DASD
00006D 0        SMF4UTYP DC    XL1'0E'           DEVICE TYPE  = 3380
00006E 0        SMF4CUAD DC    XL2'0FFF'         DEVICE ADDRESS
```

```
000070          SMF4EXCP DS    XL4               # OF IDMS PAGES READ AND WRITTEN
                *
000074          SMF4LNTH DS    XL1               LENGTH OF ACCOUNTING SECTION
                *                                ..DC/UCF      = X'28'
                *                                ..CICS ERUS   = X'24'
                *                                ..BATCH ERUS  = LENGTH OF FIELDS
                *                                                X'22' MAX
                *
000075          SMF4SETM DS    XL3               TASK TOTAL CPU TIME    (10**-2 SEC)
                *
000078          SMF4NAF  DS    XL1               # OF ACCOUNTING FIELDS
                *                                ..DC/UCF      = X'04'
                *                                ..CICS ERUS   = X'04'
                *                                ..BATCH ERUS  = # OF FIELDS CAPTURED
                *                                                    BY SVC EXIT
000079          SMF4ACTF DS    CL36              ACCOUNTING FIELDS
                *
00009D                   ORG   SMF4ACTF
000079          SM4DACTF DS    0X                DC/UCF ACCOUNTING FIELDS
000079 0        SM4DTSKL DC    XL1'08'           ..TASK CODE LENGTH
00007A          SM4DTSK  DS    CL8               ..TASK CODE
000082 0        SM4DLTEL DC    XL1'08'           ..LTERM LENGTH
000083          SM4DLTE  DS    CL8               ..LTERM
00008B 0        SM4DBLGL DC    XL1'0C'           ..BILLING GROUP LENGTH
00008C          SM4DBLG  DS    CL12              ..BILLING GROUP
000098 0        SM4DTIDL DC    XL1'04'           ..DC TASK ID LENGTH
000099          SM4DTID  DS    XL4               ..DC TASK ID (TASK NUMBER)
        00024   SM4DACTL EQU   *-SM4DACTF        DC/UCF ACCOUNTING FIELDS LENGTH
                *
00009D                   ORG   SMF4ACTF
000079          SM4CACTF DS    0X                CICS ERUS ACCOUNTING FIELDS
000079 0        SM4CTRNL DC    XL1'08'           ..TRANSACTION ID LENGTH
00007A          SM4CTRN  DS    CL8               ..TRANSACTION ID
000082 0        SM4CTRML DC    XL1'08'           ..TERMINAL ID LENGTH
000083          SM4CTRM  DS    CL8               ..TERMINAL ID
00008B 0        SM4COPRL DC    XL1'08'           ..OPERATOR ID LENGTH
00008C          SM4COPR  DS    CL8               ..OPERATOR ID
000094 0        SM4CTIDL DC    XL1'04'           ..CICS TASK ID LENGTH
000095          SM4CTID  DS    XL4               ..CICS TASK ID (TASK NUMBER)
        00020   SM4CACTL EQU   *-SM4CACTF        CICS ERUS ACCOUNTING FIELDS LENGTH
                *
000099                   ORG   SMF4ACTF
000079          SM4BACTF DS    CL30              BATCH ERUS = JOBCARD ACCOUNTING INFO
                *                                           (30 BYTES MAX)
000097                   ORG   ,
00009D          SMF4PGIN DS    CL102             RELOCATE SECTION - UNUSED
                *
                *-------------------------------------------------------------------
                *
```

```
00103  SM4DSLEN EQU   *-#PMSM4            LENGTH OF SMF4 RECORD
       *
       *-------------------------------------------------------------------
```

#PMS30DS

```
                    COPY #PMS30DS
                ********************************************************************
                ***                                                              ***
                ***      #PMS30 - APPLICATION MONITOR SMF TYPE 30 RECORDS        ***
                ***                                                              ***
                ***      COPYRIGHT (C) 2010 CA. ALL RIGHTS RESERVED.             ***
                ***                                                              ***
                ***                                                              ***
                ***                                                              ***
                ********************************************************************
                *
                *        SMF TYPE 30 RECORDS - COMMON ADDRESS SPACE WORK RECORD
                *
                *        THE PERFORMANCE MONITOR WILL WRITE ONE SMF TYPE 30 RECORD
                *             FOR EACH TASK AT TASK TERMINATION IF DESIRED
                *
                *        FIELD NAMES USED ARE THE SAME AS THOSE SHOWN IN
                *             THE IBM SPL:SMF MANUAL
                *
                *---------------------------------------------------------------
                *

Offset  Value

000000          #PMS30   DSECT                                          06/20/91
                *
                *---------------------------------------------------------------
                *
000000          SMF30LEN DS    H                  RECORD LENGTH
000002          SMF30SEG DS    H                  SEGMENT DESCRIPTOR - UNUSED
                *
000004          SMF30FLG DS    X                  SYSTEM INDICATOR
        00002   SMF30SUB EQU   X'02'              ..SUBSYSTEM ID FOLLOWS SYS ID
        00002   SMF30STY EQU   X'02'              ..SUBTYPES UTILIZED
        00002   SMF30MVS EQU   X'02'              ..MVS
        00006   SMF30XA  EQU   X'06'              ..MVS/XA
                *
000005          SMF30RTY DS    X                  SMF RECORD TYPE 30
        0001E   SMF30$RT EQU   X'1E'              ..COMMON ADDRESS SPACE WORK RECORD
                *
000006          SMF30TME DS    XL4                TIME RECORD WRITTEN   (10**-2 SEC)
00000A          SMF30DTE DS    PL4                DATE RECORD WRITTEN   (00YYDDDF)
00000E          SMF30SID DS    CL4                SYSTEM IDENTIFIER
000012          SMF30WID DS    CL4                SUBSYSTEM IDENTIFIER
                *
000016          SMF30STP DS    XL2                SMF RECORD SUBTYPE
        00001   SMF30$JS EQU   X'01'              ..JOB START RECORD TYPE
        00002   SMF30$IN EQU   X'02'              ..INTERVAL RECORD TYPE
```

```
        00003  SMF30$ST EQU   X'03'              ..STEP TERMINATION RECORD TYPE
        00004  SMF30$TO EQU   X'04'              ..STEP TOTAL RECORD TYPE
        00005  SMF30$JT EQU   X'05'              ..JOB TERMINATION RECORD TYPE
        00006  SMF30$SA EQU   X'06'              ..SYSTEM ADDRESS SPACE RECORD TYPE
               *
               *-------------------------------------------------------------------
               *
000018         SMF30SOF DS    XL4                OFFSET TO SUBSYSTEM SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
00001C         SMF30SLN DS    XL2                LENGTH OF SUBSYSTEM SECTION
00001E         SMF30SON DS    XL2                NUMBER OF SUBSYSTEM SECTION
               *-------------------------------------------------------------------
000020         SMF30IOF DS    XL4                OFFSET TO ID SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
000024         SMF30ILN DS    XL2                LENGTH OF IDENTIFICATION SECTION
000026         SMF30ION DS    XL2                NUMBER OF IDENTIFICATION SECTION
               *-------------------------------------------------------------------
000028         SMF30UOF DS    XL4                OFFSET TO I/O ACTIVITY SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
00002C         SMF30ULN DS    XL2                LENGTH OF I/O ACTIVITY SECTION
00002E         SMF30UON DS    XL2                NUMBER OF I/O ACTIVITY SECTION
               *-------------------------------------------------------------------
000030         SMF30TOF DS    XL4                OFFSET TO COMPLETION SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
000034         SMF30TLN DS    XL2                LENGTH OF COMPLETION SECTION
000036         SMF30TON DS    XL2                NUMBER OF COMPLETION SECTION
               *-------------------------------------------------------------------
000038         SMF30COF DS    XL4                OFFSET TO PROCESSOR SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
00003C         SMF30CLN DS    XL2                LENGTH OF PROCESSOR SECTION
00003E         SMF30CON DS    XL2                NUMBER OF PROCESSOR SECTION
               *-------------------------------------------------------------------
000040         SMF30AOF DS    XL4                OFFSET TO ACCOUNTING SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
000044         SMF30ALN DS    XL2                LENGTH OF ACCOUNTING SECTION
000046         SMF30AON DS    XL2                NUMBER OF ACCOUNTING SECTION
               *-------------------------------------------------------------------
000048         SMF30ROF DS    XL4                OFFSET TO STORAGE SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
00004C         SMF30RLN DS    XL2                LENGTH OF STORAGE SECTION
00004E         SMF30RON DS    XL2                NUMBER OF STORAGE SECTION
               *-------------------------------------------------------------------
000050         SMF30POF DS    XL4                OFFSET TO PERFORMANCE SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
000054         SMF30PLN DS    XL2                LENGTH OF PERFORMANCE SECTION
000056         SMF30PON DS    XL2                NUMBER OF PERFORMANCE SECTION
               *-------------------------------------------------------------------
000058         SMF30OOF DS    XL4                OFFSET TO OPERATOR SECTION FROM
               *                                 START OF RECORD, INCLUDING RDW
```

```
00005C          SMF30OLN DS    XL2                LENGTH OF OPERATOR SECTION
00005E          SMF30OON DS    XL2                NUMBER OF OPERATOR SECTION
                *-------------------------------------------------------------------
000060          SMF30EOF DS    XL4                OFFSET TO EXCP SECTION FROM
                *                                 START OF RECORD, INCLUDING RDW
000064          SMF30ELN DS    XL2                LENGTH OF EXCP SECTION
000066          SMF30EON DS    XL2                NUMBER OF EXCP SECTIONS IN PERIOD
000068          SMF30EOR DS    XL2                NUMBER OF EXCP SECTIONS IN
                *-------------------------------------------------------------------
                *                                 HEADER FIELDS NOT USED BY PERF
                *-------------------------------------------------------------------
00006A          SMF30RVD DS    XL2                Unused
00006C          SMF30EOS DS    XL4                Unused
000070          SMF30DRO DS    XL4                Unused
000074          SMF30DRL DS    XL2                Unused
000076          SMF30DRN DS    XL2                Unused
000078          SMF30ARO DS    XL4                Unused
00007C          SMF30ARL DS    XL2                Unused
00007E          SMF30ARN DS    XL2                Unused
000080          SMF30OPO DS    XL4                Unused
000084          SMF30OPL DS    XL2                Unused
000086          SMF30OPN DS    XL2                Unused
000088          SMF30OPM DS    XL4                Unused
00008C          SMF30UDO DS    XL4                Unused
000090          SMF30UDL DS    XL2                Unused
000092          SMF30UDN DS    XL2                Unused
000094          SMF30UDS DS    XL4                Unused
000098          SMF30RMO DS    XL4                Unused
00009C          SMF30RML DS    XL2                Unused
00009E          SMF30RMN DS    XL2                Unused
0000A0          SMF30RMS DS    XL4                Unused
0000A4          SMF30MOF DS    XL4                Unused
0000A8          SMF30MLN DS    XL2                Unused
0000AA          SMF30MNO DS    XL2                Unused
0000AC          SMF30MOS DS    XL4                Unused
        00046   S30HACTL EQU   *-SMF30RVD
                *-------------------------------------------------------------------
                *                                 SUBSEQUENT RECORDS
                *-------------------------------------------------------------------
                *       SUBSYSTEM SECTION
                *
0000B0                   DS    0H
0000B0 0        SMF30TYP DC    XL2'05'            SUBTYPE IDENTIFICATION (ALWAYS 03)
                *              X'01'              ..JOB START RECORD TYPE
                *              X'02'              ..INTERVAL RECORD TYPE
                *              X'03'              ..STEP TERMINATION RECORD TYPE
                *              X'04'              ..STEP TOTAL RECORD TYPE
                *              X'05'              ..JOB TERMINATION RECORD TYPE
                *              X'06'              ..SYSTEM ADDRESS SPACE RECORD TYPE
```

```
                *
0000B2          SMF30RS1 DS    XL2                RESERVED
0000B4 F        SMF30RVN DC    CL2'5'             RECORD VERSION NUMBER (ALWAYS 5)
0000B6 D        SMF30PNM DC    CL8'PERFMON '      SUBSYSTEM OR PRODUCT NAME
                *
        0000E   S30SACTL EQU   *-SMF30TYP         LENGTH OF SUBSYSTEM SECTION
                *---------------------------------------------------------------
                *       IDENTIFICATION SECTION
                *
0000BE                   DS    0H
0000BE          SMF30JBN DS    CL8                JOBNAME OF CV JOB
0000C6          SMF30PGM DS    CL8                PROGRAM NAME IDENTIFIER
                *                                 ..DC/UCF = PROGRAM NAME
                *                                 ..ADSO   = DIALOG NAME
                *                                 ..ERUS   = PROGRAM NAME FROM
                *                                            BIND RUNUNIT
                *
0000CE          SMF30STM DS    CL8                STEP NAME  (TASK CODE IDENTIFIER)
                *                                 ..DC/UCF = TASK CODE
                *                                 ..ADSO   = APPLICATION NAME
                *                                 ..BATCH  = BATCH JOBNAME
                *                                 ..CICS   = TRANSACTION ID
                *
0000D6          SMF30UIF DS    CL8                USER IDENTIFICATION
                *                                 ..DC/UCF = USERID (FIRST 8 BYTES)
                *                                 ..CICS   = OPERATOR ID
                *                                 ..BATCH  = BATCH JOBNAME
                *
0000DE          SMF30JNM DS    CL8                JES JOB IDENTIFIER-NOT USED
0000E6 0        SMF30STN DC    XL2'0001'          STEP NUMBER - ALWAYS 01
0000E8          SMF30CLS DS    X                  JOB CLASS-NOT USED
0000E9                   DS    X                  RESERVED
0000EA          SMF30PGN DS    XL2                JOB PERFORMANCE GROUP NUM-NOT USED
0000EC          SMF30JPT DS    XL2                JES INPUT PRIORITY
0000EE          SMF30AST DS    XL4                DEVICE ALLOCATION START TIME
0000F2          SMF30PPS DS    XL4                PROBLEM PROGRAM START TIME
0000F6          SMF30SIT DS    XL4                SAME AS SMF30RST-SEE BELOW
0000FA          SMF30STD DS    PL4                SAME AS SMF30RSD-SEE BELOW
0000FE          SMF30RST DS    XL4                DC TASK INIT TIME     (10**-2 SEC)
000102          SMF30RSD DS    PL4                DC TASK INIT DATE     (00YYDDDF)
000106          SMF30RET DS    XL4                DC TASK END TIME      (10**-2 SEC)
00010A          SMF30RED DS    PL4                DC TASK END DATE      (00YYDDDF)
00010E          SMF30USR DS    CL20               PROGRAMMERS NAME-NOT USED
000122          SMF30GRP DS    CL8                RACF GROUP ID-NOT USED
00012A          SMF30RUD DS    CL8                RACF USER ID-NOT USED
000132          SMF30TID DS    CL8                RACF TERMINAL ID-NOT USED
        0002C   SMF30SPC EQU   *-SMF30USR
                *
        0007C   S30JACTL EQU   *-SMF30JBN         LENGTH OF IDENTIFICATION SECTION
```

```
                *-------------------------------------------------------------
                *       COMPLETION SECTION
                *
00013A                   DS    0H
00013A          SMF30SCC DS    XL2               COMPLETION INDICATOR
                *                                ..NORMAL COMPLETION = X'0000'
                *                                ..ABEND COMPLETION  = X'FFFF'
                *
00013C          SMF30STI DS    XL2               STEP TERMINATION INDICATOR
        00000   SMF30$NM EQU   X'0000'            ..NORMAL COMPLETION
        00002   SMF30$AB EQU   X'0002'            ..ABEND
                *
00013E          SMF30ARC DS    XL4               ABEND REASON CODE
                *
        00008   S30LACTL EQU   *-SMF30SCC         LENGTH OF COMPLETION SECTION
                *-------------------------------------------------------------
                *       ACCOUNTING SECTION
                *
                *
000142                   DS    0H
000142          SMF30ACL DS    XL1               LENGTH OF ACCOUNTING SECTION
                *                                ..DC/UCF      = X'28'
                *                                ..CICS ERUS   = X'24'
                *                                ..BATCH ERUS  = LENGTH OF FIELDS
                *                                                X'22' MAX
                *
000143          SMF30SET DS    XL3               TASK TOTAL CPU TIME    (10**-2 SEC)
                *
000146          SMF30NAF DS    XL1               # OF ACCOUNTING FIELDS
                *                                ..DC/UCF      = X'04'
                *                                ..CICS ERUS   = X'04'
                *                                ..BATCH ERUS  = # OF FIELDS CAPTURED
                *                                                    BY SVC EXIT
000147          SMF30ACT DS    CL36              ACCOUNTING FIELDS
                *
00016B                   ORG   SMF30ACT
000147          S30DACTF DS   0X                 DC/UCF ACCOUNTING FIELDS
000147 0        S30DTSKL DC    XL1'08'           ..TASK CODE LENGTH
000148          S30DTSK  DS    CL8               ..TASK CODE
000150 0        S30DLTEL DC    XL1'08'           ..LTERM LENGTH
000151          S30DLTE  DS    CL8               ..LTERM
000159 0        S30DBLGL DC    XL1'0C'           ..BILLING GROUP LENGTH
00015A          S30DBLG  DS    CL12              ..BILLING GROUP
000166 0        S30DTIDL DC    XL1'04'           ..DC TASK ID LENGTH
000167          S30DTID  DS    XL4               ..DC TASK ID (TASK NUMBER)
        00024   S30DACTL EQU   *-S30DACTF         DC/UCF ACCOUNTING FIELDS LENGTH
                *
00016B                   ORG   SMF30ACT
000147          S30CACTF DS   0X                 CICS ERUS ACCOUNTING FIELDS
```

```
000147 0       S30CTRNL DC    XL1'08'             ..TRANSACTION ID LENGTH
000148         S30CTRN  DS    CL8                 ..TRANSACTION ID
000150 0       S30CTRML DC    XL1'08'             ..TERMINAL ID LENGTH
000151         S30CTRM  DS    CL8                 ..TERMINAL ID
000159 0       S30COPRL DC    XL1'08'             ..OPERATOR ID LENGTH
00015A         S30COPR  DS    CL8                 ..OPERATOR ID
000162 0       S30CTIDL DC    XL1'04'             ..CICS TASK ID LENGTH
000163         S30CTID  DS    XL4                 ..CICS TASK ID (TASK NUMBER)
        00020  S30CACTL EQU   *-S30CACTF          CICS ERUS ACCOUNTING FIELDS LENGTH
               *
000167                  ORG   SMF30ACT
000147         S30BACTF DS    CL30                BATCH ERUS = JOBCARD ACCOUNTING INFO
               *                                              (30 BYTES MAX)
000165                  ORG   ,
        00029  S30AACTL EQU   *-SMF30ACL          LENGTH OF ACCOUNTING SECTION
               *-------------------------------------------------------------------
               *       STORAGE AND PAGING SECTION
               *
00016C                  DS    0H
00016C         SMF30RSV DS    XL2                 RESERVED
00016E         SMF30SFL DS    XL1                 NOT USED
               *
00016F         SMF30SPK DS    XL1                 STORAGE PROTECT KEY OF CV
000170         SMF30PRV DS    XL2                 IDMS PGMPOOL HI WATERMARK IN KBYTES
000172         SMF30SYS DS    XL2                 IDMS STGPOOL HI WATERMARK IN KBYTES
               *
000174         SMF30PGI DS    XL4                 NUMBER OF IDMS PAGES READ/WRITTEN
000178         SMF30PGO DS    XL4                 UNUSED
00017C         SMF30REC DS    XL4                 UNUSED
000180         SMF30NSW DS    XL4                 UNUSED
000184         SMF30PSI DS    XL4                 UNUSED
000188         SMF30PSO DS    XL4                 UNUSED
00018C         SMF30VPI DS    XL4                 UNUSED
000190         SMF30VPO DS    XL4                 UNUSED
000194         SMF30VPR DS    XL4                 UNUSED
000198         SMF30CPI DS    XL4                 UNUSED
00019C         SMF30HPI DS    XL4                 UNUSED
0001A0         SMF30LPI DS    XL4                 UNUSED
0001A4         SMF30HPO DS    XL4                 UNUSED
0001A8         SMF30PST DS    XL4                 UNUSED
0001AC         SMF30PSC DS    XL8                 UNUSED
0001B4         SMF30RGB DS    XL4                 UNUSED
0001B8         SMF30ERG DS    XL4                 UNUSED
0001BC         SMF30ARB DS    XL4                 UNUSED
0001C0         SMF30EAR DS    XL4                 UNUSED
0001C4         SMF30URB DS    XL4                 UNUSED
0001C8         SMF30EUR DS    XL4                 UNUSED
0001CC         SMF30RGN DS    XL4                 UNUSED
               *
```

```
        00058  SMF30ZER EQU   *-SMF30PGO
               *
        00064  S30PACTL EQU   *-SMF30RSV          LENGTH OF STORAGE/PAGING SECTION
               *
               *-------------------------------------------------------------------
0001D0                 ORG   ,
               *
               *-------------------------------------------------------------------
               *       Processor accounting section                          R180
               *
0001D0                 DS    0H
0001D0         SMF30PTY DS    XL2                Reserved
0001D2         SMF30TFL DS    XL2                Invalid timer flags
0001D4         SMF30CPT DS    XL4                Total TCB time (10**-2 sec)
0001D8         SMF30CPS DS    XL4                Total SRB time (10**-2 sec)
0001DC         SMF30TF2 DS    XL1                Additional timer flags
0001DD         SMF30T32 DS    XL1                Additional failure flags
0001DE         SMF30T33 DS    XL1                Additional failure flags
0001DF                 DS    XL1                Filler
               * Offset x'10'
0001E0         S30SYTI  DS    XL8                CPU time in TOD format
0001E8         S30CPTI  DS    XL8                SRB CPU time on CPU in TOD format
0001F0         SMF30IST DS    XL4                Interval start time (10**-2 SEC)
0001F4         SMF30IDT DS    PL4                Interval start date (0CYYDDDF)
0001F8         S30TTTI  DS    XL8                TCB CPU time in TOD format
               * Offset x'30'
000200         S30ZPTI  DS    XL8                SRB CPU time ON zIIP in TOD format
000208                 DS    XL8                Filler
000210         S30USTI  DS    XL8                User mode CPU time in TOD format
000218                 DS    XL16               Filler
000228         S30ENTI  DS    XL8                Total enclave SRB CPU time in TOD
        00060  S30PRASL EQU   *-SMF30PTY          Length of processor account. sect.
               *
               *-------------------------------------------------------------------
               *       Performance accounting section                        R180
               *
000230                 DS    0H
000230         SMF30SRV DS    XL4                unused
000234         SMF30CSU DS    XL4                CPU service units (TCB used)
000238         SMF30SRB DS    XL4                SRB service units (SRB used)
00023C         SMF30IO  DS    XL4                unused
000240         SMF30MSO DS    XL4                unused
000244         SMF30TAT DS    XL4                unused
000248         SMF30SUS DS    XL4                Copy of RmctAdjC
               *                                 Number of sixteenths of one CPU
               *                                 microsecond per CPU service unit
00024C         SMF30RES DS    XL4                unused
000250         SMF30TRS DS    XL4                unused
000254         SMF30WLM DS    CL8                unused
```

```
00025C          SMF30SCN DS    CL8                 unused
000264          SMF30GRN DS    CL8                 unused
00026C          SMF30RCN DS    CL8                 unused
000274          SMF30ETA DS    XL4                 unused
000278          SMF30ESU DS    XL4                 unused
00027C          SMF30ETC DS    XL4                 unused
000280          SMF30PFL DS    CL16                unused
000290          SMF30JQT DS    XL4                 unused
000294          SMF30RQT DS    XL4                 unused
000298          SMF30HQT DS    XL4                 unused
00029C          SMF30SQT DS    XL4                 unused
0002A0          SMF30PF1 DS    XL1                 unused
0002A1          SMF30PF2 DS    XL1                 unused
0002A2          SMF30RS4 DS    CL1                 unused
0002A3          SMF30ZEP DS    CL1                 unused
0002A4          SMF30JPN DS    CL8                 unused
0002AC          SMF30MSC DS    XL4                 unused
0002B0          SMF30CPC DS    XL2                 CPU Service Definition Coefficient
0002B2          SMF30LOC DS    XL2                 unused
0002B4          SMF30SRC DS    XL2                 SRB Service Definition Coefficient
0002B6          SMF30ZNF DS    XL2                 unused
0002B8          SMF30SNF DS    XL2                 Normalization factor for zIIP
                *
          0008A S30PEASL EQU   *-SMF30SRV           Length of processor acounting sect.
                *-------------------------------------------------------------------
                *
          002BA S30DSLEN EQU   *-#PMS30             LENGTH OF SMF30 RECORD
                *
                *-------------------------------------------------------------------
```

#PMSTGDS

```
                COPY #PMSTGDS
              ********************************************************************
              ***                                                              ***
              ***      #PMSTG - PMIM STGPOOL DATA RECORD                       ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE FOR EACH STORAGE POOL DEFINED IN THE SYSGEN
              *
              *-----------------------------------------------------------------
              *

Offset  Value

000000        #PMSTG   DSECT                                  03/03/88
              *
              *-----------------------------------------------------------------
              *
000000        STGHDR   DS   0H                 RECORD HEADER
              *
000000        STGLEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002        STGRTYPE DS    X                 RECORD TYPE
       0000A  STG$TYPE EQU      10             ..PMIM STORAGE POOL RECORD
000003        STGSEQ#  DS    X                 SEQUENCE NUMBER       (ALWAYS 1)
000004        STGVER#  DS    X                 RECORD VERSION
       00001  STG$VER  EQU       1             ..CURRENT VERSION
000005                 DS    XL3               ** RESERVED **
              *
000008                 DS    F                 ** RESERVED **
00000C        STGSDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010        STGSTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014        STGEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018        STGETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  STGHDRLN EQU   *-STGHDR          HEADER LENGTH
              *
              *-----------------------------------------------------------------
              *
       0001C  STGDATA  EQU   *                 START OF STORAGE POOL DATA
              *
00001C        STGPOLID DS    X                 STORAGE POOL ID (0-256) (SCTPNUM)
              *
00001D        STGTYPE  DS    X                 STORAGE TYPE FLAGS      (SCTTYPE)
       00080  STGSHR   EQU   X'80'             ..SHARED
       00040  STGSHRK  EQU   X'40'             ..SHARED-KEPT
```

```
        00020  STGUSR   EQU   X'20'               ..USER
        00010  STGUSRK  EQU   X'10'               ..USER-KEPT
        00008  STGTRM   EQU   X'08'               ..TERMINAL
        00004  STGDBA   EQU   X'04'               ..DATABASE
        00002  STGSYS   EQU   X'02'               ..SYSTEM
               * NOTE: A STG POOL MAY CONTAIN MULTIPLE STORAGE TYPES
               *       THUS STGTYPE MAY HAVE MULTIPLE BITS TURNED ON
               *
00001E                 DS    H                   ** RESERVED **
000020         STG#PGS  DS    F                   # PAGES IN POOL         (SCTSIZE)
000024         STGCUSHN DS    F                   POOL CUSHION            (SCTCUSHN)
               *
000028         STG#INUS DS    F                   # PAGES IN USE AT END OF INTERVAL
00002C         STGHIWAT DS    F                   HIGH WATERMARK IN USE
Offset  Value

               *
000030         STG#GETS DS    F                   # GETSTGS
000034         STG#FREE DS    F                   # FREESTGS
000038         STG#PAS1 DS    F                   # PASS-1 HITS
00003C         STG#PAS2 DS    F                   # PASS-2 HITS
000040         STG#PAS3 DS    F                   # PASS-3 HITS
000044         STG#SOS  DS    F                   # TIMES SOS
               *
000048                 DS   3F                   ** RESERVED **
               *
               *-------------------------------------------------------------------
               *
        00054  STGDSLEN EQU   ((*-#PMSTG+3)/4)*4  LENGTH OF LOG RECORD
               *
               *-------------------------------------------------------------------
               *
        00038  STGDTLEN EQU   STGDSLEN-STGHDRLN   LENGTH OF RECORD DATA
               *
               *-------------------------------------------------------------------
```

#PMSTLDS

```
                COPY #PMSTLDS
              ********************************************************************
              ***                                                              ***
              ***      #PMSTL - PERFORMANCE MONITOR STATS LOGREC TEXT PORTION   ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        REPLACES THE #STLDS FOR PERFORMANCE MONITOR RECORDS ON
              *              THE DC LOG.
              *
              *        IT DESCRIBES THE DATA IN THE DCLOG RECORDS
              *              BEGINNING AT FIELD LGRTEXT
              *
              *        THIS DOES NOT APPEAR IN PERFORMANCE MONITOR RECORDS
              *              WRITTEN TO SMF
              *
              *------------------------------------------------------------------
              *
Offset  Value

000000        #PMSTL   DSECT                                          12/19/95
              *
              *------------------------------------------------------------------
              *
000000        PMSTYPE  DS    X                 PERFMON STATS RECTYPE
       000E6  PMSTPMAM EQU   230
       000E7  PMSTPMIM EQU   231
              *
000001        PMSPMID  DS    X                 COMPONENT ID
       00001  PMSPMIM  EQU     1               ..INTERVAL MONITOR
       00002  PMSPMAM  EQU     2               ..APPLICATION MONITOR
              *
000002        PMSDCV#  DS    H                 DC SYSTEM VERSION #
              *
000004        PMSRID   DS    CL4               RELEASE ID
              *
              *------------------------------------------------------------------
              *
000008                 DS    0F                ..ALIGNMENT
       00008  PMSFIXE  EQU   *                 END OF FIXED PORTION
       00008  PMSFIXL  EQU   PMSFIXE-#PMSTL     LEN OF FIXED PORTION
              *
              *------------------------------------------------------------------
              *
```

```
00008  PMSDSLEN EQU   ((*-#PMSTL+3)/4)*4  LENGTH
       *
       *-------------------------------------------------------------------
```

#PMSVXDS

```
                  COPY #PMSVXDS
                ********************************************************************
                ***                                                              ***
                ***      #PMSVX - PERFORMANCE MONITOR ERE EXTENSION               ***
                ***                                                              ***
                ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.             ***
                ***                                                              ***
                ***                                                              ***
                ***                                                              ***
                ********************************************************************
                *
                *        REPLACES PERFMON 10.1 RTSDS DSECT
                *              (#PMRTSDM MACRO)
                *
                *

Offset  Value

        0C3F0  PMXSVXID EQU   C'C0'              SVXITMID FOR PERFMON
               *
               *
000000         #PMSVX   DSECT
               *
000000         PMXTYPE  DS    C                 ERUS TYPE INDENTIFIER
        000C2  PMX$BATC EQU   C'B'               ..BATCH ERUS
        000C3  PMX$CICS EQU   C'C'               ..CICS ERUS
        000E3  PMX$TPMN EQU   C'T'               ..OTHER TP MONITOR
        000C4  PMX$IDMS EQU   C'D'               ..IDMS/DC TP MONITOR
        00040  PMX$UNKN EQU   C' '               ..UNKNOWN
               *
        00001  PMXDATA  EQU   *                  BEGIN ACCOUNTING FIELDS AREA
               *
               *
        00001  PMXBATCH EQU   *                  BATCH ERUS FIELDS
               *
000001         PMXBJBNM DS    CL8               BATCH JOB NAME
000009         PMXB#FLD DS    X                 NUMBER OF ACCOUNTING FIELDS
00000A         PMXBACFD DS   0CL30               BATCH ACCOUNTING FIELDS
00000A         PMXBF1LN DS    X                 ..FIRST ACCOUNTING FIELD LENGTH
00000B         PMXBF1FN DS    CL29              ..FIRST FIELD + THE REST OF DATA
        0001E  PMXBACLN EQU   *-PMXBACFD         LENGTH OF ACCOUNTING FIELDS
               *
000028                 ORG   PMXDATA
               *
        00001  PMXCICS  EQU   *                  CICS ERUS FIELDS
               *
000001         PMXCJBNM DS    CL8               CICS REGION JOB NAME
000009         PMXCTI   DS    CL4               CICS TRANSACTION ID      (PCTTI)
00000D         PMXCTETI DS    CL4               CICS TERMINAL NAME       (TCTTETI)
```

```
000011          PMXCLID1 DS    CL4                TPMON LREID1 - IDMSINTC TPNAME
000018          PMXCLID2 DS    F                  TPMON LREID2 - CICS TASK ID
00001C          PMXCTEOI DS    CL8                CICS OPERATOR ID         (TCTTEOI)
                *
000024                   ORG   PMXDATA
                *
          00001 PMXIDMS  EQU   *                  ERUS FIELDS FOR IDMS/DC FRONT END
                *
000001          PMXDJBNM DS    CL8                FRONT END IDMS REGION JOB NAME
000009          PMXDTI   DS    CL8                IDMS F.E. TASK CODE
000011          PMXDTETI DS    CL8                IDMS F.E. PTERM NAME
000019          PMXDCVN  DS    X                  IDMS FRONT END CVNUMBER
00001A                   DS    CL2                FILLER
00001C          PMXDLID2 DS    F                  IDMS F.E. LREID2: IDMS TASK ID
Offset  Value

000020          PMXDTEOI DS    CL8                IDMS F.E. USER ID
                *
000028                   ORG   PMXDATA
                *                                                                 *
          00001 PMXTPMON EQU   *                  TP MONITOR ERUS FIELDS
                *                                                               **
000001                   DS    CL8                ** RESERVED **
000009                   DS    CL4                ** RESERVED **
00000D                   DS    CL4                ** RESERVED **
000011          PMXTLID1 DS    CL4                TPMON LREID1 -- IDMSINTX TPNAME
000018          PMXTLID2 DS    F                  TPMON LREID2
00001C                   DS    CL8                ** RESERVED **
                *                                                               **
000024                   ORG
          00028 PMXDSLEN EQU ((*-#PMSVX+1)/2)*2    LENGTH (ROUNDED TO HALFWORD)
```

#PMTASDS

```
                        COPY #PMTASDS
               ********************************************************************
               ***                                                              ***
               ***      #PMTAS - PMAM TASK RECORD                               ***
               ***                                                              ***
               ***      COPYRIGHT (C) 2010 CA. ALL RIGHTS RESERVED.             ***
               ***                                                              ***
               ***                                                              ***
               ***                                                              ***
               ********************************************************************
               *

Offset  Value

000000         #PMTAS   DSECT
               *
               *------------------------------------------------------------------
               *
000000         TASHDR   DS   0H                  RECORD HEADER
               *
000000         TASLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002         TASRTYPE DS    X                  RECORD TYPE
        00010  TAS$TYPE EQU      16              ..PMAM TASK STATS RECORD
000003         TASSEQ#  DS    X                  SEQUENCE NUMBER
000004         TASVER#  DS    X                  RECORD VERSION
        00001  TAS$VER  EQU       1              ..CURRENT VERSION
000005                  DS    XL3                ** RESERVED **
               *
000008         TASTSKID DS    F                  TASK ID
00000C         TASSDATE DS    PL4                TASK START DATE       (00YYYDDF)
000010         TASSTIME DS    F                  TASK START TIME       (10**-4 SEC)
000014         TASEDATE DS    PL4                TASK END DATE         (00YYYDDF)
000018         TASETIME DS    F                  TASK END TIME         (10**-4 SEC)
               *
        0001C  TASHDRLN EQU   *-TASHDR           HEADER LENGTH
               *
               *------------------------------------------------------------------
               *
        0001C  TASDATA  EQU   *                  START OF TASK STATS DATA
               *
               *------------------------------------------------------------------
               *
               *        PART1 - TASSEQ#=1
               *
               *------------------------------------------------------------------
               *
               *        TASK IDENTIFICATION
               *
```

```
00001C          TASTCDID DS    CL8                IDENTIFYING TASK CODE
                *                                 ..IF DC, DC TASKCODE
                *                                 ..IF ADSO, APPLICATION NAME
                *                                 ..IF CICS ERUS, TRANS ID
                *                                 ..IF BATCH ERUS, JOBNAME
                *                                 ..ANY OTHER ERUS, INTX LRELID1
                *
000024          TASTRMID DS    CL8                IDENTIFYING TERMINAL ID
                *                                 ..IF DC, DC LTERM ID OR OPTIONALLY
                *                                     ACCESS METHOD SPECIFIC
                *                                     TERMINAL IDENTIFICATION
                *                                     (TASAMNAM)
                *                                 ..IF CICS ERUS, TERMINAL ID
                *                                 ..ELSE NOT USED
                *
00002C          TASPGMID DS    CL8                IDENTIFYING PROGRAM NAME
                *                                 ..IF DC, DC PROGRAM NAME
                *                                 ..IF ADSO, DIALOG NAME
                *                                 ..IF ANY ERUS, PROGRAM NAME
                *                                        FROM BIND RUNUNIT
                *
000034          TASUSRID DS    CL8                IDENTIFYING USER ID
                *                                 ..IF DC, USER ID (FIRST 8 BYTES)
                *                                 ..IF CICS ERUS, OPERATOR ID
                *                                 ..ELSE NOT USED
                *
                *-------------------------------------------------------------------
                *
00003C          TASTTYPE DS    X                  TASK TYPE FLAG
        00080   TAS$ONLN EQU   X'80'              ..ONLINE
        00040   TAS$BATC EQU   X'40'              ..BATCH ERUS
        00020   TAS$CICS EQU   X'20'              ..CICS ERUS
        00010   TAS$ERUS EQU   X'10'              ..UNIDENTIFIED ERUS
        00008   TAS$SYST EQU   X'08'              ..SYSTEM TASK OR DRIVER
        00004   TAS$TPMN EQU   X'04'              ..UNIDENTIFIED TPMONITOR
        00002   TAS$IDMS EQU   X'02'              ..IDMS/DC ERUS
                *
00003D          TASTTYP2 DS    X                  TASK TYPE FLAG 2
                *                                 IF SYSTEM TASK:
        00080   TAS$LDRV EQU   X'80'              ..LINE DRIVER
        00040   TAS$SDRV EQU   X'40'              ..SERVICE DRIVER
        00020   TAS$PRTK EQU   X'20'              ..PRINT TASK
        00010   TAS$HLT  EQU   X'10'              ..HELOT TASK
        00008   TAS$JNLD EQU   X'08'              ..JOURNAL DRIVER
        00004   TAS$IODR EQU   X'04'              ..DB I/O WRITE DRIVER
        00002   TAS$RDDR EQU   X'02'              ..DB I/O READ DRIVER
        00001   TAS$IOT  EQU   X'01'              ..DB I/O TASK
                *                                 IF ONLINE TASK:  N.B.:MORE THAN
        00080   TAS$ADSO EQU   X'80'              ..ADSO               ONE FLAG MAY
```

```
        00040  TAS$FACT EQU   X'40'              ..FACTOTUM           BE SET
        00020  TAS$UCF  EQU   X'20'              ..UCF
               *
               *---------------------------------------------------------------
               *
00003E         TASPTYPE DS    X                  PROGRAM TYPE FLAG
        00080  TAS$COBL EQU   X'80'              ..COBOL
        00040  TAS$ASM  EQU   X'40'              ..ASSEMBLER (BAL)
        00020  TAS$PLI  EQU   X'20'              ..PL/I
        00010  TAS$DLG  EQU   X'10'              ..DIALOG
        00008  TAS$SUBS EQU   X'08'              ..SUBSCHEMA
        00004  TAS$MAP  EQU   X'04'              ..MAP
        00002  TAS$TBL  EQU   X'02'              ..TABLE
        00001  TAS$UNDF EQU   X'01'              ..UNDEFINED
               *
00003F         TASPRTY  DS    X                  TASK PRIORITY
000040         TASPGVER DS    H                  PROGRAM VERSION NUMBER
000042                  DS    H                  ** RESERVED **
               *
               *---------------------------------------------------------------
               *---------------------------------------------------------------
               *
               *        TASK VARIABLE DATA
               *
000044         TASVDATA DS   0F
               *
               *--------------------------------
               *
               *        DC TASK DATA
               *
        00044  TASDC    EQU   *
000044         TASTSKCD DS    CL8                ..TASK CODE
00004C         TASPGMNM DS    CL8                ..PROGRAM NAME
000054         TASLTEID DS    CL8                ..LTERM ID
00005C         TASPTEID DS    CL8                ..PTERM ID
000064         TASUSER  DS    CL32               ..USER ID
               *
000084         TASPGDBN DS    CL8                ..PROGRAM DICTNAME
00008C         TASPGNOD DS    CL8                ..PROGRAM DICTNODE
000094         TASLDLST DS    CL8                ..LTERM LOADLIST
               *
00009C         TASVNODE DS   0CL8                ..VTAM NODENAME
00009C         TASFEID  DS   0CL8                ..UCF FRONTEND ID
00009C         TASAMNAM DS    CL8                ACCESS METHOD TERMINAL IDENTIFIER
               *                                 ..VTAM NODENAME
               *                                 ..UCF FRONTEND ID
               *                                 ..SNA TERMINAL NAME
               *                                 ..TCAM TERMINAL NAME
               *
```

```
0000A4         TASFACCD DS    X                  ..FACTOTUM CODE
0000A5                  DS    X                  ....UNUSED
        00062  TASDVLEN EQU   *-TASDC             DC TASK DATA LENGTH
               *
               *--------------------------------
               *
               *        CICS OR IDMS/DC ERUS TASK DATA
               *
0000A6                  ORG   TASVDATA
        00044  TASCICS  EQU   *
000044         TASCTI   DS    CL8                ..TRANSACTION ID/TASK CODE
00004C         TASCPGNM DS    CL8                ..PROGRAM NAME (FROM BIND RUNUNIT)
000054         TASCTETI DS    CL8                ..FRONT END TERMINAL NAME
00005C         TASCLID  DS   0CL8                ..LOCAL ID FROM LRE
00005C         TASCLID1 DS    CL4                ....LRELID1 - IDMSINTC TPNAME or
               *                                               Dnnn where nnn is
               *                                               IDMS FE CV NUMBER.
000060         TASCLID2 DS    XL4                ....LRELID2 - CICS OR IDMS TASK ID
000064         TASCTEOI DS    CL8                ..OPERATOR ID            (TCTTEOI)
00006C         TASCJBNM DS    CL8                ..FRONT-END CICS OR IDMS JOBNAME
        00030  TASCVLEN EQU   *-TASCICS           CICS OR ERUS DATA LENGTH
               *
               *--------------------------------
               *
               *        BATCH ERUS TASK DATA
               *
000074                  ORG   TASVDATA
        00044  TASBATCH EQU   *
000044         TASBJBNM DS    CL8                ..JOBNAME
00004C         TASBPGNM DS    CL8                ..PROGRAM NAME (FROM BIND RUNUNIT)
               * ACCOUNTING INFORMATION
000054         TASB#FLD DS    X                  ..NUMBER OF ACCOUNTING FIELDS
        00055  TASBACFD EQU   *                  ..START OF ACCOUNTING FIELDS
000055         TASBBALN DS    X                  ..TOTAL LENGTH OF BATCH ACCT DATA
000056         TASBFLDS DS   0CL30                ..ACCT FIELD 1 THRU N LEN/DATA
000056         TASBF1LN DS    X                  ....FIRST ACCOUNTING FIELD LENGTH
000057         TASBF1FN DS    CL29               ....FIRST FIELD + THE REST OF DATA
        00030  TASBVLEN EQU   *-TASBATCH          BATCH ERUS DATA LENGTH
               *
               *--------------------------------
               *
               *        TPMON ERUS TASK DATA
               *
000074                  ORG   TASVDATA
        00044  TASTPMON EQU   *
000044                  DS    CL8                ....UNUSED
00004C         TASTPGNM DS    CL8                ..PROGRAM NAME
000054                  DS    CL8                ....UNUSED
00005C                  DS    CL8                ....UNUSED
```

```
000064         TASTLID  DS   0CL8                ..LOCAL ID FROM LRE
000064         TASTLID1 DS    CL4                ....LRELID1 - IDMSINTX TPNAME
000068         TASTLID2 DS    XL4                ....LRELID2
        00028  TASTVLEN EQU   *-TASTPMON          TPMON ERUS DATA LENGTH
               *
               *--------------------------------
               *
00006C                  ORG   ,
        00062  TASVLEN  EQU   *-TASVDATA          VARIABLE DATA LENGTH
               *
               *-----------------------------------------------------------------
               *-----------------------------------------------------------------
               *
               *        TASK COMPLETION DATA
               *
        00080  TASABND  EQU   X'80'               ..TASK ABEND
        00040  TASABRT  EQU   X'40'               ..ADS DIALOG ABORT
        00020  TASTOUT  EQU   X'20'               ..TASK TIMED OUT (SINGLE ECB)
        00010  TASTOUL  EQU   X'10'               ..TASK TIMED OUT (ECB LIST)
0000A6         TASTABND DS    X                  TASK ABEND FLAG
0000A7                  DS    X                  ** RESERVED **
0000A8         TASABMSG DS    PL4                ABEND MESSAGE NUMBER
0000AC         TASABCDE DS    CL4                ABEND CODE
               *
               *-----------------------------------------------------------------
               *
               *        TASK ACCOUNTING DATA
               *
0000B0         TASBLGRP DS    CL12               BILLING GROUP (FROM SON)
               *
0000BC         TASUFLD1 DS    CL8                USER FIELDS
0000C4         TASUFLD2 DS    CL8                ..AVAILABLE FOR USER
0000CC         TASUFLD3 DS    CL8                ..PERFMON DOES NOT MODIFY
               *
               *-----------------------------------------------------------------
               *
               *        ADSO DATA
               *
0000D4         TASDLGNM DS    CL8                DIALOG NAME      (FDB)
0000DC         TASAPLNM DS    CL8                APPLICATION NAME (ADB)
0000E4         TASMXLVL DS    X                  MAX # DIALOG LEVELS
0000E5         TASMXRBB DS    X                  MAX # RBBS
0000E6         TAS#DBLV DS    X                  # LEVELS DOING DB WORK AT TASKTERM
0000E7                  DS    XL3                **  RESERVED  **
               *
               *-----------------------------------------------------------------
               *
0000EC                  DS   0F
               *
```

```
        000EC  TAS1DSLN EQU   *-#PMTAS            PART1 - LENGTH OF RECORD
               *
               *
        000D0  TAS1DTLN EQU   TAS1DSLN-TASHDRLN   PART1 - LENGTH OF RECORD DATA
               *
               *-------------------------------------------------------------------
               *-------------------------------------------------------------------
               *
0000EC                 ORG   TASDATA
               *
               *-------------------------------------------------------------------
               *
               *        PART2 - TAWSEQ#=2
               *
               *---------------------------------
               *
00001C         TASDCTRL DS    H     ????          TERMINAL READ LENGTH
00001E         TASDCTWL DS    H     ????          TERMINAL WRITE LENGTH
               *
000020         TASSTGKP DS    F                   STG KEPT AT TASK TERMINATION
000024         TASSTGRL DS    F                   STG RELOCATED (TO SCRATCH)
000028         TASPGMUS DS    F                   PGMPOOL IN USE AT TASK TERMINATION
00002C         TASPGMHW DS    F                   PGMPOOL HIGH WATER MARK
               *---------------------------------
               *
               *        TASK DC STATISTICS
               *
000030         TASPGMCL DS    F                   # OF PROGRAMS CALLED
000034         TASPGMLD DS    F                   # OF PGMS LOADED
000038         TASTRMRD DS    F                   # OF TERMINAL READS
00003C         TASTRMWR DS    F                   # OF TERMINAL WRITES
000040         TASTRMER DS    F                   # OF TERMINAL ERRORS
000044         TASSTGGT DS    F                   # OF GET STORAGE REQUESTS
000048         TASSCRGT DS    F                   # OF SCRATCH GETS
00004C         TASSCRPT DS    F                   # OF SCRATCH PUTS
000050         TASSCRDL DS    F                   # OF SCRATCH DELETES
000054         TASQUEGT DS    F                   # OF QUEUE GETS
000058         TASQUEPT DS    F                   # OF QUEUE PUTS
00005C         TASQUEDL DS    F                   # OF QUEUE DELETES
000060         TASGETIM DS    F                   # OF GETTIME REQUESTS
000064         TASSETIM DS    F                   # OF SETTIME REQUESTS
000068         TASDBRQS DS    F                   # OF DB SERVICE RQSTS   (STCDBRQS)
00006C         TASHISTK DS    F                   MAX WORDS USED IN STACK
000070         TASTIMUS DS    F                   USER MODE TIME   (10**-4 SECONDS)
000074         TASTIMSY DS    F                   SYSTEM MODE TIME (10**-4 SECONDS)
000078         TASTIMWT DS    F                   WAIT TIME        (10**-4 SECONDS)
00007C         TASHIRCE DS    F                   MAXIMUM NUMBER OF RCE'S USED
000080         TASHIRLE DS    F                   MAXIMUM NUMBER OF RLE'S USED
000084         TASHIDPE DS    F                   MAXIMUM NUMBER OF DPE'S USED
```

```
000088          TASSTGHW DS    F                  STORAGE HIGH WATER MARK
00008C          TASSTGFR DS    F                  # OF FREE STORAGE REQUESTS
000090          TASSVRQS DS    F                  # OF DCSYSTEM SERVICE RQSTS
000094          TASDCEND DS   0F                  END OF TASK DC STATS
                *
                *--------------------------------
                *
                *        TASK DB STATISTICS
                *
                *--------------------------------
                *
000094          TASPAGRD DS    F                  # OF PAGES READ
000098          TASPAGWR DS    F                  # OF PAGES WRITTEN
00009C          TASPAGRQ DS    F                  # OF PAGES REQUESTED
0000A0          TASCALNO DS    F                  # OF CALC RECS WITH NO OFLOW
0000A4          TASCALOF DS    F                  # OF CALC RECS WITH OFLOW
0000A8          TASVIANO DS    F                  # OF VIA RECS WITH NO OFLOW
0000AC          TASVIAOF DS    F                  # OF VIA RECS WITH OFLOW
0000B0          TASRECRQ DS    F                  # OF RECORDS REQUESTED
0000B4          TASRECCU DS    F                  # OF RECS CURRENT OF RUNUNIT
0000B8          TASDBCLS DS    F                  # OF DBMS CALLS         (STBDBRQS)
0000BC          TASFRAGS DS    F                  # OF FRAGMENTS STORED
0000C0          TASRELO  DS    F                  # OF RECORDS RELOCATED
0000C4          TASTLOCK DS    F                  # OF LOCKS        FOR RU
0000C8          TASSLOCK DS    F                  # OF SELECT LOCKS FOR RU
0000CC          TASULOCK DS    F                  # OF UPDATE LOCKS FOR RU
0000D0          TASDBEND DS   0F                  END OF TASK DB STATS
0000D0          TASUPCNT DS    F                  # OF RECORDS UPDATED
0000D4          TASCACHE DS    F                  # OF RECORDS FOUND IN CACHE
0000D8          TASPRFET DS    F                  # OF RECORDS FOUND IN PREFETCH
0000DC          TASDBEN2 DS   0F                  END OF TASK DB STATS
                *
0000DC                   DS   0F
                *
        000DC   TAS2DSLN EQU   *-#PMTAS            PART2 - LENGTH OF RECORD
                *
                *
        000C0   TAS2DTLN EQU   TAS2DSLN-TASHDRLN   PART2 - LENGTH OF RECORD DATA
                *
                *-----------------------------------------------------------------
                *-----------------------------------------------------------------
                *
0000DC                   ORG   TASDATA
                *
                *-----------------------------------------------------------------
                *
                *        PART3 - TAWSEQ#=3
                *
                *--------------------------------
```

```
                *
                *        TASK SQL STATISTICS
                *
                *--------------------------------
                *
00001C          TAS#CMD  DS    F                  # OF SQL COMMANDS EXECUTED
000020          TAS#FET  DS    F                  # OF ROWS FETCHED
000024          TAS#INS  DS    F                  # OF ROWS INSERTED
000028          TAS#UPD  DS    F                  # OF ROWS UPDATED
00002C          TAS#DEL  DS    F                  # OF ROWS DELETED
000030          TAS#SRT  DS    F                  # OF SORTS PERFORMED
000034          TAS#SRR  DS    F                  # OF ROWS SORTED
000038          TAS#SMI  DS    F                  # OF MINIMUM ROWS SORTED
00003C          TAS#SMX  DS    F                  # OF MAXIMUM ROWS SORTED
000040          TAS#AMC  DS    F                  # OF AM RECOMPILES
000044          TASSQEND DS   0F                  END OF TASK SQL STATS
                *
                *-------------------------------------------------------------------
                *
                *        Extended DC Statistics                                R180
                *
                *-------------------------------------------------------------------
000048          TASXBEG  DS    0D                 Beginning of Extended statistics
000048          TASSYTI  DS    D                  CPU time in TOD
000050          TASCPTI  DS    D                  SRB CPU time on CP in TOD
000058          TASZPTI  DS    D                  SRB CPU time on zIIP in TOD
000060          TASUSTI  DS    D                  User mode time in TOD
000068          TASTTTI  DS    D                  TCB CPU time in TOD
000070          TASENTI  DS    D                  Total enclave SRB CPU time in TOD
000078                   DS    14D                Reserved
0000E8          TASXEND  DS    0D                 End of Extended statistics
                *
                *-------------------------------------------------------------------
                *
0000E8                   DS   0F
        000E8   TAS3DSLN EQU   *-#PMTAS           PART3 - LENGTH OF RECORD
                *
        000CC   TAS3DTLN EQU   TAS3DSLN-TASHDRLN  PART3 - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
                *
0000E8                   ORG   ,
                *
        000F0   TASMXLEN EQU   ((*-#PMTAS+7)/8)*8 LENGTH OF LONGEST PART
                *
                *-------------------------------------------------------------------
```

#PMTAWDS

```
                COPY #PMTAWDS
              ************************************************************************
              ***                                                                  ***
              ***      #PMTAW - TASK WAIT RECORD                                   ***
              ***                                                                  ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.                ***
              ***                                                                  ***
              ***                                                                  ***
              ***                                                                  ***
              ************************************************************************
              *
              *        ONE TASK WAIT RECORD PER TASK
              *             IF #PMOPT TASKWAIT=YES
              *
              *---------------------------------------------------------------------
              *

Offset  Value

000000        #PMTAW   DSECT                                              11/24/95
              *
              *---------------------------------------------------------------------
              *
000000        TAWHDR   DS   0H                  RECORD HEADER
              *
000000        TAWLEN   DS    H                  RECORD LENGTH         (INCLUSIVE)
000002        TAWRTYPE DS    X                  RECORD TYPE
       00011  TAW$TYPE EQU     17              ..PMAM TASK WAIT RECORD
000003        TAWSEQ#  DS    X                  SEQUENCE NUMBER
000004        TAWVER#  DS    X                  RECORD VERSION
       00001  TAW$VER  EQU     1               ..CURRENT VERSION
000005                 DS    XL3                ** RESERVED **
              *
000008        TAWTSKID DS    F                  TASK ID
00000C        TAWSDATE DS    PL4                TASK START DATE       (00YYYDDF)
000010        TAWSTIME DS    F                  TASK START TIME       (10**-4 SEC)
000014        TAWEDATE DS    PL4                TASK END DATE         (00YYYDDF)
000018        TAWETIME DS    F                  TASK END TIME         (10**-4 SEC)
              *
       0001C  TAWHDRLN EQU   *-TAWHDR           HEADER LENGTH
              *
              *---------------------------------------------------------------------
              *
       0001C  TAWDATA  EQU   *                  START OF TASK WAIT DATA
              *
              *---------------------------------------------------------------------
              *
              *        PART1 - TAWSEQ#=1
              *
```

```
            *-----------------------------------------------------------------
            *
00001C                  DS    F                   ** RESERVED **
            *
000020      TAW1BKTS DS   0F                  PART1 - START OF WAIT TIME BUCKETS
            *
000020      TAWDBIR  DS   0F                  DBIO READ WAIT
000020      TAWDBIRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000024      TAWDBIRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000028      TAWDBIR# DS    F                  ....# WAITS
            *
00002C      TAWDBIW  DS   0F                  DBIO WRITE WAITS
00002C      TAWDBIWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000030      TAWDBIWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
Offset  Value

000034      TAWDBIW# DS    F                  ....# WAITS
            *
000038      TAWFCBX  DS   0F                  DBIO WAITING ON A PRIOR I/O(DOS)
000038      TAWFCBXT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00003C      TAWFCBXH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000040      TAWFCBX# DS    F                  ....# WAITS
            *
000044      TAWDBFR  DS   0F                  DB BUFFER WAIT
000044      TAWDBFRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000048      TAWDBFRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00004C      TAWDBFR# DS    F                  ....# WAITS
            *
000050      TAWJRLR  DS   0F                  JRNL READ WAIT
000050      TAWJRLRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000054      TAWJRLRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000058      TAWJRLR# DS    F                  ....# WAITS
            *
00005C      TAWJRLW  DS   0F                  JRNL WRITE WAIT
00005C      TAWJRLWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000060      TAWJRLWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000064      TAWJRLW# DS    F                  ....# WAITS
            *
000068      TAWJBFR  DS   0F                  JRNL BUFFER WAIT
000068      TAWJBFRT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00006C      TAWJBFRH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000070      TAWJBFR# DS    F                  ....# WAITS
            *
000074      TAWDBKY  DS   0F                  DBKEY WAIT
000074      TAWDBKYT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000078      TAWDBKYH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00007C      TAWDBKY# DS    F                  ....# WAITS
            *
000080      TAWLOGR  DS   0F                  DCLOG READ WAIT
```

```
000080         TAWLOGRT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
000084         TAWLOGRH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
000088         TAWLOGR# DS    F                   ....# WAITS
               *
00008C         TAWLOGW  DS   0F                  DCLOG WRITE WAIT
00008C         TAWLOGWT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
000090         TAWLOGWH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
000094         TAWLOGW# DS    F                   ....# WAITS
               *
000098         TAWLOGS  DS   0F                  DCLOG SINGLE THREAD WAIT
000098         TAWLOGST DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
00009C         TAWLOGSH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000A0         TAWLOGS# DS    F                   ....# WAITS
               *
0000A4         TAWLOGF  DS   0F                  DCLOG FULL  WAIT
0000A4         TAWLOGFT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
0000A8         TAWLOGFH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000AC         TAWLOGF# DS    F                   ....# WAITS
               *
0000B0         TAWSCRR  DS   0F                  SCRATCH READ WAIT
0000B0         TAWSCRRT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
0000B4         TAWSCRRH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000B8         TAWSCRR# DS    F                   ....# WAITS
               *
0000BC         TAWSCRW  DS   0F                  SCRATCH WRITE WAIT
0000BC         TAWSCRWT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
0000C0         TAWSCRWH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000C4         TAWSCRW# DS    F                   ....# WAITS
               *
0000C8         TAWSCRS  DS   0F                  SCRATCH SINGLE THREAD WAIT
0000C8         TAWSCRST DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
0000CC         TAWSCRSH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000D0         TAWSCRS# DS    F                   ....# WAITS
Offset  Value

               *
0000D4         TAWQUER  DS   0F                  QUEUE READ WAIT
0000D4         TAWQUERT DS    F                   ....SUM OF WAIT TIMES (10**-4 SEC)
0000D8         TAWQUERH DS    F                   ....HIGHEST WAIT TIME (10**-4 SEC)
0000DC         TAWQUER# DS    F                   ....# WAITS
               *
```

```
0000E0          TAWQUEW  DS   0F                  QUEUE WRITE WAIT
0000E0          TAWQUEWT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
0000E4          TAWQUEWH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
0000E8          TAWQUEW# DS    F                  ....# WAITS
                *
                *-------------------------------------------------------------------
                *
0000EC                   DS   0F
        000EC   TAW1DSLN EQU   *-#PMTAW            PART1 - LENGTH OF RECORD
                *
                *
        00011   TAW1#BKT EQU   17                  PART1 - # WAIT BUCKETS
        000D0   TAW1DTLN EQU   TAW1DSLN-TAWHDRLN   PART1 - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
                *-------------------------------------------------------------------
                *
0000EC                   ORG   TAWDATA
                *
                *-------------------------------------------------------------------
                *
                *        PART2 - TAWSEQ#=2
                *
                *-------------------------------------------------------------------
                *
00001C          TAW2BKTS DS   0F                  PART2 - START OF WAIT TIME BUCKETS
                *
00001C          TAWSTGP  DS   0F                  STORAGE POOL WAIT
00001C          TAWSTGPT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000020          TAWSTGPH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000024          TAWSTGP# DS    F                  ....# WAITS
                *
000028          TAWPGMP  DS   0F                  PGM POOL WAIT
000028          TAWPGMPT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00002C          TAWPGMPH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000030          TAWPGMP# DS    F                  ....# WAITS
                *
000034          TAWPGML  DS   0F                  PGM LOAD WAIT
000034          TAWPGMLT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000038          TAWPGMLH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00003C          TAWPGML# DS    F                  ....# WAITS
                *
000040          TAWLDRS  DS   0F                  LOADER SINGLE THREAD WAIT
000040          TAWLDRST DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000044          TAWLDRSH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000048          TAWLDRS# DS    F                  ....# WAITS
                *
00004C          TAWACCS  DS   0F                  AREA ACCESS WAIT
00004C          TAWACCST DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
```

```
000050          TAWACCSH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
000054          TAWACCS# DS    F                ....# WAITS
                *
000058          TAWERUS  DS   0F                ERUS WAIT
000058          TAWERUST DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
00005C          TAWERUSH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
000060          TAWERUS# DS    F                ....# WAITS
                *
000064          TAWDDSW  DS   0F                DDS WAIT
000064          TAWDDSWT DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
000068          TAWDDSWH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
Offset  Value

00006C          TAWDDSW# DS    F                ....# WAITS
                *
000070          TAWCKUS  DS   0F                CHECKUSER SUBTASK WAIT
000070          TAWCKUST DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
000074          TAWCKUSH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
000078          TAWCKUS# DS    F                ....# WAITS
                *
00007C          TAWTPIR  DS   0F                TPIO READ WAIT
00007C          TAWTPIRT DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
000080          TAWTPIRH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
000084          TAWTPIR# DS    F                ....# WAITS
                *
000088          TAWTPIW  DS   0F                TPIO WRITE WAIT
000088          TAWTPIWT DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
00008C          TAWTPIWH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
000090          TAWTPIW# DS    F                ....# WAITS
                *
000094          TAWDBG   DS   0F                DBGROUP WAIT
000094          TAWDBGT  DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
000098          TAWDBGH  DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
00009C          TAWDBG#  DS    F                ....# WAITS
                *
0000A0          TAWSHC   DS   0F                SHARED CACHE WAIT
0000A0          TAWSHCT  DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
0000A4          TAWSHCH  DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
0000A8          TAWSHC#  DS    F                ....# WAITS
                *
0000AC          TAWOTHE  DS   0F                OTHER EXTERNAL WAITS
0000AC          TAWOTHET DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
0000B0          TAWOTHEH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
0000B4          TAWOTHE# DS    F                ....# WAITS
                *
0000B8          TAWOTHR  DS   0F                OTHER INTERNAL WAITS
0000B8          TAWOTHRT DS    F                ....SUM OF WAIT TIMES (10**-4 SEC)
0000BC          TAWOTHRH DS    F                ....HIGHEST WAIT TIME (10**-4 SEC)
0000C0          TAWOTHR# DS    F                ....# WAITS
```

```
                *
0000C4                  DS   0F                  ** RESERVED **
0000C4                  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
0000C8                  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
0000CC                  DS    F                  ....# WAITS
                *
0000D0                  DS   0F                  ** RESERVED **
0000D0                  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
0000D4                  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
0000D8                  DS    F                  ....# WAITS
                *
                *-------------------------------------------------------------------
                *
0000DC                  DS   0F
        000DC  TAW2DSLN EQU   *-#PMTAW           PART2 - LENGTH OF RECORD
                *
        0000E  TAW2#BKT EQU   14                 PART2 - # WAIT BUCKETS
        000C0  TAW2DTLN EQU   TAW2DSLN-TAWHDRLN  PART2 - LENGTH OF RECORD DATA
                *
                *-------------------------------------------------------------------
                *
0000DC                  ORG   ,
                *
        000EC  TAWMXLEN EQU   ((*-#PMTAW+3)/4)*4 LENGTH OF LARGEST PART
                *
        0001F  TAW#BKTS EQU   TAW1#BKT+TAW2#BKT  # WAIT BUCKETS ENTIRE RECORD
                *
                *-------------------------------------------------------------------
```

#PMXLIDS

```
                COPY #PMXLIDS
              ********************************************************************
              ***                                                              ***
              ***      #PMXLI - PMIM DSG XESList wait record                   ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *-

Offset  Value

000000        XLILN    DSECT
              * To simplify coding, the 3 wait fullwords are to be first
000000        XLILNTWT DS    F                   ....SUM OF WAIT TIMES (10**-4 sec)
000004        XLILNHWT DS    F                   ....HIGHEST WAIT TIME (10**-4 sec)
000008        XLILN#WT DS    F                   ....# WAITS
00000C        XLILN#R  DS    F                   # Reads
000010        XLILN#W  DS    F                   # Writes
000014        XLILN#D  DS    F                   # Deletes
       00018  XLILNLEN EQU   *-XLILN             Sizeof(resource type info)
              *
000000        #PMXLI   DSECT
              *
              *--------------------------------------------------------------------
              *
000000        XLIHDR   DS   0H                  Record header
              *
000000        XLILEN   DS    H                  Record length         (inclusive)
000002        XLIRTYPE DS    X                  Record type
       0000E  XLI$TYPE EQU      14             ..PMIM DSG XESList wait record
000003        XLISEQ#  DS    X                  Sequence number
000004        XLIVER#  DS    X                  Record version
       00001  XLI$VER  EQU       1             ..Current version
000005                 DS    XL3                ** RESERVED **
              *
000008                 DS    F                  ** RESERVED **
00000C        XLISDATE DS    PL4                Interval start date   (0CYYYDDF)
000010        XLISTIME DS    F                  Interval start time   (10**-4 sec)
000014        XLIEDATE DS    PL4                Interval end date     (0CYYYDDF)
000018        XLIETIME DS    F                  Interval end time     (10**-4 sec)
              *
       0001C  XLIHDRLN EQU   *-XLIHDR           Header length
              *
              *--------------------------------------------------------------------
              *
```

```
        00004  XLILIST# EQU   4                  Number of lists in record
        0001C  XLIDATA  EQU   *                  Start of data
00001C          XLISTRNM DS    CL16               Structure name
00002C          XLIDTAIL DS    (XLILIST#)XL(XLILNLEN)
        0008C  XLIDSLEN EQU   *-#PMXLI           Length of record
               *
        00070  XLIDTLEN EQU   XLIDSLEN-XLIHDRLN  Length of record data
               *
               *-------------------------------------------------------------------
```

#PMXLKDS

```
                COPY #PMXLKDS
              ********************************************************************
              ***                                                              ***
              ***      #PMXLK - PMIM DSG XESLOck wait record                   ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *-

Offset  Value

000000        XLKRT    DSECT
              * To simplify coding, the 3 wait fullwords are to be first
000000        XLKRTTWT DS    F                  ....SUM OF WAIT TIMES (10**-4 sec)
000004        XLKRTHWT DS    F                  ....HIGHEST WAIT TIME (10**-4 sec)
000008        XLKRT#WT DS    F                  ....# WAITS
00000C        XLKRT#O  DS    F                  # Obtains
000010        XLKRT#A  DS    F                  # Alters
000014        XLKRT#R  DS    F                  # Releases
000018        XLKRT#CX DS    F                  # Contention exit runs
00001C        XLKRT#NX DS    F                  # Notify exit runs
       00020  XLKRTLEN EQU   *-XLKRT            Sizeof(resource type info)
              *
000000        #PMXLK   DSECT
              *
              *--------------------------------------------------------------------
              *
000000        XLKHDR   DS   0H                  Record header
              *
000000        XLKLEN   DS    H                  Record length         (inclusive)
000002        XLKRTYPE DS    X                  Record type
       0000D  XLK$TYPE EQU      13             ..PMIM DSG XESLock wait record
000003        XLKSEQ#  DS    X                  Sequence number
000004        XLKVER#  DS    X                  Record version
       00001  XLK$VER  EQU       1             ..Current version
000005                 DS    XL3                ** RESERVED **
              *
000008                 DS    F                  ** RESERVED **
00000C        XLKSDATE DS    PL4                Interval start date   (0CYYYDDF)
000010        XLKSTIME DS    F                  Interval start time   (10**-4 sec)
000014        XLKEDATE DS    PL4                Interval end date     (0CYYYDDF)
000018        XLKETIME DS    F                  Interval end time     (10**-4 sec)
              *
       0001C  XLKHDRLN EQU   *-XLKHDR           Header length
              *
```

```
               *-------------------------------------------------------------------
               *
        0001C  XLKDATA  EQU   *                  Start of data
00001C         XLKSTRNM DS    CL16               Structure name
               *
        00006  XLKRTYP1 EQU   6                  Number of resource types in part 1
00002C         XLKDATA1 DS    (XLKRTYP1)XL(XLKRTLEN)   Space for first 6 res. types
        000EC  XLKDSLN1 EQU   *-#PMXLK           Length of record part 1
0000EC                 ORG   XLKDATA
        00002  XLKRTYP2 EQU   2                  Number of resource types in part 2
00001C         XLKDATA2 DS    (XLKRTYP2)XL(XLKRTLEN)   Space for last 2 res. types
        0005C  XLKDSLN2 EQU   *-#PMXLK           Length of record part 2
00005C                 ORG
               *
Offset  Value

        000EC  XLKDSLEN EQU   *-#PMXLK           Length of record
               *
        000D0  XLKDTLEN EQU   XLKDSLEN-XLKHDRLN  Length of record data
               *
               *-------------------------------------------------------------------
```

#PMXMSDS

```
                COPY #PMXMSDS
              ********************************************************************
              ***                                                              ***
              ***      #PMXMS - PMIM DSG XCFMsg wait record                    ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *-

Offset  Value

000000        XMSMT    DSECT
000000        XMSMT#S  DS    F                  # Sends
000004        XMSMT#R  DS    F                  # Receives
        00008 XMSMTLEN EQU   *-XMSMT            Sizeof(message type info)
              *
000000        #PMXMS   DSECT
              *
              *------------------------------------------------------------------
              *
000000        XMSHDR   DS    0H                 Record header
              *
000000        XMSLEN   DS    H                  Record length         (inclusive)
000002        XMSRTYPE DS    X                  Record type
        0000F XMS$TYPE EQU      15              ..PMIM DSG XCFMsg wait record
000003        XMSSEQ#  DS    X                  Sequence number
000004        XMSVER#  DS    X                  Record version
        00001 XMS$VER  EQU       1             ..Current version
000005                 DS    XL3                ** RESERVED **
              *
000008                 DS    F                  ** RESERVED **
00000C        XMSSDATE DS    PL4                Interval start date   (0CYYYDDF)
000010        XMSSTIME DS    F                  Interval start time   (10**-4 sec)
000014        XMSEDATE DS    PL4                Interval end date     (0CYYYDDF)
000018        XMSETIME DS    F                  Interval end time     (10**-4 sec)
              *
        0001C XMSHDRLN EQU   *-XMSHDR           Header length
              *
              *------------------------------------------------------------------
              *
00001C                 DS    0F                 Align XMSDATA
        0001C XMSDATA  EQU   *                  Start of data
00001C        XMSGRPNM DS    XL8                Group name
000024        XMSGMNAM DS    CL8                Group member name
00002C        XMSGMSTA DS    X                  Member status
```

```
00002D          XMSGMUSP DS    X                  User state field: prior state
00002E          XMSGMUSC DS    X                  User state field: current state
00002F                   DS    X                  Reserved
000030          XMSGMMTD DS    (XMBGMMT#)XL(XMSMTLEN)
          00070 XMSDSLEN EQU   *-#PMXMS            Length of record
                *
          00054 XMSDTLEN EQU   XMSDSLEN-XMSHDRLN   Length of record data
                *
                *-------------------------------------------------------------------
```

#PMYPEDS

```
                COPY #PMYPEDS
              ********************************************************************
              ***                                                              ***
              ***      #PMYPE - PMIM STORAGE TYPE WAIT RECORD                  ***
              ***                                                              ***
              ***      COPYRIGHT (C) 2007 CA technologies. ALL RIGHTS RESERVED.            ***
              ***                                                              ***
              ***                                                              ***
              ***                                                              ***
              ********************************************************************
              *
              *        ONE FOR NON-XA STORAGE
              *        ONE FOR XA STORAGE IF PRESENT
              *
              *------------------------------------------------------------------
              *
Offset  Value

000000        #PMYPE   DSECT                                    03/03/88
              *
              *------------------------------------------------------------------
              *
000000        YPEHDR   DS   0H                 RECORD HEADER
              *
000000        YPELEN   DS    H                 RECORD LENGTH         (INCLUSIVE)
000002        YPERTYPE DS    X                 RECORD TYPE
       0000B  YPE$TYPE EQU      11             ..PMIM STORAGE TYPE WAIT RECORD
000003        YPESEQ#  DS    X                 RECORD SEQUENCE       (ALWAYS 1)
              *
000004        YPEVER#  DS    X                 RECORD VERSION
       00001  YPE$VER  EQU       1             ..CURRENT VERSION
000005                 DS    XL3               ** RESERVED **
              *
000008                 DS    F                 ** RESERVED **
00000C        YPESDATE DS    PL4               INTERVAL START DATE   (00YYYDDF)
000010        YPESTIME DS    F                 INTERVAL START TIME   (10**-4 SEC)
000014        YPEEDATE DS    PL4               INTERVAL END DATE     (00YYYDDF)
000018        YPEETIME DS    F                 INTERVAL END TIME     (10**-4 SEC)
              *
       0001C  YPEHDRLN EQU   *-YPEHDR          HEADER LENGTH
              *
              *------------------------------------------------------------------
              *
       0001C  YPEDATA  EQU   *                 START OF STORAGE TYPE DATA
              *
00001C        YPESLOC  DS    XL1               STORAGE LOCATION
       00080  YPEABOV  EQU   X'80'             ..LOCATION ABOVE 16 MEG
       00040  YPEBELO  EQU   X'40'             ..LOCATION BELOW 16 MEG
```

```
00001D                  DS    XL3                 **  RESERVED  **
000020                  DS    F                   **  RESERVED  **
                *
                *-------------------------------------------------------------------
                *
000024          YPEWBKTS DS   0F                  START OF WAIT TIME STATISTICS
                *
000024          YPESHR   DS   0F                  SHARED STORAGE WAIT
000024          YPESHRT  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000028          YPESHRH  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00002C          YPESHR#  DS    F                  ....# WAITS
                *
000030          YPESHRK  DS   0F                  SHARED-KEPT STORAGE WAIT
000030          YPESHRKT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
Offset  Value

000034          YPESHRKH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000038          YPESHRK# DS    F                  ....# WAITS
                *
00003C          YPEUSR   DS   0F                  USER STORAGE WAIT
00003C          YPEUSRT  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000040          YPEUSRH  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000044          YPEUSR#  DS    F                  ....# WAITS
                *
000048          YPEUSRK  DS   0F                  USER-KEPT STORAGE WAIT
000048          YPEUSRKT DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00004C          YPEUSRKH DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000050          YPEUSRK# DS    F                  ....# WAITS
                *
000054          YPETRM   DS   0F                  TERMINAL STORAGE WAIT
000054          YPETRMT  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000058          YPETRMH  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
00005C          YPETRM#  DS    F                  ....# WAITS
                *
000060          YPEDBA   DS   0F                  DATABASE STORAGE WAIT
000060          YPEDBAT  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000064          YPEDBAH  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000068          YPEDBA#  DS    F                  ....# WAITS
                *
00006C          YPESYS   DS   0F                  SYSTEM STORAGE WAIT
00006C          YPESYST  DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
000070          YPESYSH  DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000074          YPESYS#  DS    F                  ....# WAITS
                *
000078                   DS   0F                  ** RESERVED **
000078                   DS    F                  ....SUM OF WAIT TIMES (10**-4 SEC)
00007C                   DS    F                  ....HIGHEST WAIT TIME (10**-4 SEC)
000080                   DS    F                  ....# WAITS
                *
```

```
       *-----------------------------------------------------------------
       *
00084  YPEDSLEN EQU   ((*-#PMYPE+3)/4)*4  LENGTH OF RECORD
       *
       *-----------------------------------------------------------------
       *
00007  YPE#BKTS EQU   7                   # WAIT BUCKETS
00068  YPEDTLEN EQU   YPEDSLEN-YPEHDRLN   LENGTH OF RECORD DATA
       *
       *-----------------------------------------------------------------
```

Index

S

T

U