

# CA Workload Automation CA 7® Edition

## Report Reference Guide

Version 12.0.00



Second Edition

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# CA Technologies Product References

This document references the following CA products:

- CA Workload Automation CA 7® Edition, (CA WA CA 7 Edition), formerly CA Workload Automation SE and CA 7® Workload Automation
- CA ACF2™
- CA Datacom A/D
- CA Earl™
- CA Easytrieve® Report Generator (CA Easytrieve)
- CA Roscoe® Interactive Environment (CA Roscoe)
- CA Top Secret®
- CA Workload Automation Restart Option for z/OS Schedulers (CA WA Restart Option), formerly CA 11™ Workload Automation Restart and Tracking

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- Product and documentation downloads
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## Documentation Changes

The following documentation update has been made since the last release of this documentation:

- [Reports Available](#) (see page 378)—This topic has a new table of SQL reports that do not replace existing reports.

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# Chapter 1: Introduction

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The *Report Reference Guide* presents reports available to users of CA Workload Automation CA 7® Edition (CA WA CA 7 Edition). This guide describes automated performance analysis, history reporting, workload planning, and reporting with CA Earl, CA Easytrieve, and SQL.



# Chapter 2: Automated Performance Analysis

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This section contains the following topics:

[Overview](#) (see page 13)

[Graph Formats](#) (see page 14)

[Some Practical Uses](#) (see page 18)

[Customize Graphs](#) (see page 21)

[APA Graph Descriptions](#) (see page 21)

[GRAPHD - Database Graph Descriptions](#) (see page 22)

[GRAPHJ - Job Graph Descriptions](#) (see page 26)

[GRAPHN - Network Graph Descriptions](#) (see page 40)

[GRAPHS - System Graph Descriptions](#) (see page 43)

## Overview

Automated Performance Analysis (APA) is a management reporting system. Information is reported online or in batch for any time period that is specified from current time of day back to two years prior. APA can display up-to-the-second information in graphic format to provide quick and easy access to information about data center and workload processing performance.

Over 400 predefined performance graphs are provided with the system. User exits can selectively capture more performance information that is not supplied through these predefined options. Macros are also provided for defining more graphs to display using user-defined counters. Graphs are selected individually and are optional.

Because APA captures and displays timely information, it is an invaluable tool for identifying and correcting production bottlenecks and problems. This system also provides the type of information critical to decision making that affects data center operations.

Graphs can be helpful at shift turnover times or at any time that status information is wanted.

Data center management can review selected graphs every morning to have immediately an accurate report of what transpired the previous day. Management can also request certain graphs periodically during the day to detect problems that otherwise are not perceived.

The ability to report the activities for the past two years provides the data necessary for trend analysis. Graphs can serve as a basis for a certain level of capacity planning. You can request the APA graphs through top line commands or a menu selection. The top line requests use the GRAPHx commands. The menu selection is requested through the APA command.

**Note:** For more information about these commands, see the *Command Reference Guide*.

## Graph Formats

Each graph is presented with the title and four-digit number that is listed as the graph name. Users must provide a CUST statement in the initialization file to identify their company name in 44 characters or less. The customer ID in that statement appears on the report immediately above the report title.

Any activity within a day causes that data to appear on the graph. The nonprocessing days (days on which CA WA CA 7 Edition was not up) are not shown at all.

An ENDDAY option on the SCHEDULE statement in the initialization file is also available. ENDDAY lets you specify a 24-hour range for APA reporting other than the default of midnight-to-midnight.

Page numbers are used to take care of data that caused the report to exceed one page. A message appears at the end of the graph.

## Standard Graph

The following graph is an example of a standard APA graph.

```

GRAPHS, ID=160, FROM=0601yy
**                COMPANY NAME                **                PAGE 0001
NUMBER OF RESPONSES LESS THAN 3 SECONDS
ID=0160                PERIOD : 06/01/yy TO 12/22/yy                SCALE=0000020

DATE      100  200  300  400  500  600  700  800  900  1000+
0.....+.....+.....+.....+.....+.....+.....+.....+.....+
1028yy ***                41                TOTAL 41
1029yy *****                137                178
1030yy **                26                204
1106yy ***                44                248
1116yy *                0                248
1120yy *                9                257
1124yy **                25                282
1207yy *                3                285
1209yy *                6                209
1218yy *****                75                366
1219yy *                0                366
1220yy *                0                366
1221yy *****                96                462
1222yy *****                58                520

.....END OF GRAPH ID 0160.....

MLR1-00 REQUEST COMPLETED AT 12:27:11 ON yy.356.

```

This panel contains the following fields:

### GRAPHS...

Displays an echo of the top line command.

### COMPANY NAME

Specifies the customer name from the initialization file.

### PAGE

Specifies the page number.

### NUMBER OF ...

Specifies the graph title.

### ID=

Identifies the specific ID for the graph.

### PERIOD

Specifies the time that the data represents.

**100...1000+**

Specifies the value per increase on horizontal scale.

**DATE**

Specifies the date activity occurred (*mmdyy* format).

**\*\*\***

Specifies a graphic depiction of column to the right (under numeric scale).

**Column of numbers**

Specifies the number of activities for that day (left of TOTAL column).

**TOTAL**

Specifies a running total of number of activities on this graph.

The graph format that is shown in Standard Graph is a standard format throughout most of the graph types. However, some variances are shown on the following pages.

## Graphs Using Averages

The following graph is a comparison graph using averages in depicting the data.

```

GRAPHS, FROM=0214yy, ID=0150
*** COMPANY NAME *** PAGE 0001
AVERAGE NUMBER OF TRANSACTIONS PER LOGON
ID=0150 PERIOD : 02/14/yy TO 02/27/yy SCALE=0000002
DATE 10 20 30 40 50 60 70 80 90 100+
0.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+
0214yy ***** 241 23 10.47
0215yy ***** 75 5 15.00
0216yy ***** 32 2 16.00
0217yy * 0 0 0.00
0220yy ***** 48 6 8.00
0221yy ***** 203 16 12.68
0222yy ***** 263 6 43.83
0223yy ***** 134 8 16.75
0224yy ***** 1717 3 572.33
0226yy ***** 174 12 14.50
0227yy ***** 229 13 17.61
TOTALS: 3116 94 33.14
.....END OF GRAPH ID 0150.....
MLR1-00 REQUEST COMPLETED AT 12:00:15 ON yy.058.

```

The standard graph fields are the same as the fields in the Standard Graph. The following fields are unique to this type of graph:

### untitled column (TOTAL is 3116)

Specifies the primary counter. The total number of all items for that day. (In this case, total number of transactions for that day.)

### untitled column (TOTAL is 94)

Specifies the secondary counter. The total number of items being compared for that day. (In this case, total number of logons for that day.)

### AVG

Specifies the calculated value. (In this case, average number of transactions per logon.)

### TOTALS

Specifies the report totals. The totals of the three preceding columns.

### More information:

[Standard Graph](#) (see page 15)

## Some Practical Uses

The following topics provide some practical uses for system graphs, network graphs, database graphs, and job graphs.

### System Graphs

The graphs available through this command are intended to assist CA Support and your installation's support personnel in tuning or isolating bottlenecks that can develop. However, some of the graphs can be meaningful to management level personnel.

A measurement of the overall performance of CA WA CA 7 Edition can be determined from these graphs. Reports on other components of the total operating environment (if available) can help to put this performance information into perspective and further achieve an optimum level.

The number of times that a LOGON was performed can be of some interest. Certainly any security violations should be closely examined. You can review this information periodically throughout the day to enable prompt action on any violations.

Response time graphs are available to show not only transaction totals but also percentages of the total in various response time increments. The accumulated response time graph yields the total terminal operator idle time.

The transaction totals, number per LOGON, and average response time quickly provide a profile of terminal activity.

### Network Graphs

The graphs in this category are designed to inform data center management on performance of areas other than the computer room.

The use of workstation networks enables the system to schedule and sequence tasks for preprocessing or postprocessing activities. You can easily determine the amount of progress that has been made toward defining networks and using them in production.

Some graphs indicate the performance numbers and percentages for each segment or type of work. The number of networks on time or late, number of workstations on time or late, and the resulting on time performance percentages are easily obtained. This information applies to both input and output workstation networks.

## Job Graphs

Job graphs are designed to provide informative data that is related to the magnitude and success of a data center at the job unit level. Workload characteristics and performance data are readily available and trends can be easily reviewed.

Job characteristics such as total number of jobs run, what portion CA WA CA 7 Edition submitted, average number of data sets by type, average elapsed time, and CPU times are all available. For example, evaluate the amount of time that is spent in JES before execution to isolate a possible bottleneck.

The following data can analyze performance or success trends:

- Reporting and reviewing ABEND ratios
- Number of jobs late or early
- Completions with and without abnormal events (abnormal completions are categorized into groups)
- Zero completion code percentage
- Number of attempts to run

The number of problems that are related to jobs containing overrides can be of significant interest. Because the use of an override actually represents a variation of the job, some installations want to identify that use. Once identified, you can replace the version containing the override with another version of the job and can schedule them accordingly. Success using overrides can be easily reviewed and the results quantified.

Information about the total activity of disk and tapes by media type and per job can be helpful in establishing shop profiles. The information can dictate future decisions on a large scale whether to recommend more disk or tape activity. Determining what techniques are used to submit or invoke work can quantify how automated this portion of the total task really is. Decisions regarding relative effectiveness of each technique can be easily determined.

If CA WA Restart Option is installed, you can compare the following data to measure the amount of use:

- The number or percentage of jobs with automated generation of a restart step.
- The total number of jobs.

You can also consider the number of restarts that were late here.

The quantifying of disk and tape GDGs (generation data groups) can be of value to users concerned with catalog activity and space requirements. The percentage of each type of data set that is a GDG can show the extent of that technique in a data center.

## Database Graphs

GRAPHD or database graphs offer data center management and CA Support personnel information that is related to database activity. These graphs can be of great value to both areas as these graphs provide a profile of the *total* workload that is defined to CA WA CA 7 Edition.

The GRAPHD function reports additions or deletions to the CA WA CA 7 Edition database by tracking database activity, such as job, prose, schedule, and network additions/deletions.

CA Support personnel can monitor the database maintenance activity and can avoid surprise needs for more space. This monitoring capability can supply the direct answer to why more space is required. Disk space requirements seem to grow without a clear reason in many data centers. Many data centers commonly find themselves with expanding disk requirements and no reasonable explanation as to why. With this information, it becomes obvious where the activity has been concentrated and provides a trail back to the cause.

Data center management can use the GRAPHD facility for the same purpose as CA Support personnel. Additionally, they can use each of the graphs to provide a quantitative work measurement tool for those activities in a production control department.

Production control sometimes performs all of the database maintenance functions. The graphs by individual task can pinpoint the types of activities in progress and the quantity of each activity at a detailed level.

These graphs can assist data center management during the conversion of work to run under CA WA CA 7 Edition. If a conversion begins with an inventory of jobs to place in the CA WA CA 7 Edition database, progress can be monitored. The amount of work that is not completed can be readily defined.

If you want to place only CPU work in the database as the first step, any activity in prose members or networks represents time spent on something other than the main objective. If you decide to add documentation when the job is added, comparison of those two graphs can determine whether this is being done. As you implement input and output networks, you can monitor this database maintenance activity. Providing these numbers on networks to support recommendations for terminals in the appropriate areas for workstations is sometimes necessary.

The graphs in this category can collectively demonstrate how sophisticated or complex the total production requirement is (with all functions formerly done manually). They also reveal information when all the work is converted and apparently the task of getting production work done is totally a function of the computer (or, in this case, CA WA CA 7 Edition).

The quantified implementation goals or objectives and progress can be readily identified by using this reporting facility. The results are accurate and timely, facilitating the management of the implementation process.

## Customize Graphs

APA uses default values for the scale on each graph. The parameter, SCALE, can be supplied in the graph request to specify user-desired values dynamically. Assume that you reviewed a graph and determined that the activity for the period reviewed did not match the scale. You can immediately display the graph again with an adjusted scale and adjusted bars to correspond to the new scale. Values from one graph can then be put into another graph to provide a comparison of two distinct events.

**Note:** For more information about customizing new graphs, see the *Systems Programming Guide*.

## APA Graph Descriptions

The remainder of this section contains brief descriptions of all graph reports available through the Automated Performance Analysis (APA) facility.

The descriptions are divided into four graph categories:

- Database Graphs
- Job Graphs
- Network Graphs
- System Graphs

Graphs are listed in numerical order within each category.

## GRAPHD - Database Graph Descriptions

These graphs reflect Database Maintenance (DBM) activities performed. Numerous types of activities are reported with data reflecting the amount of activity for the period that the user specifies. Batch transactions may have been used instead of the online panels referenced in these descriptions.

### **0030 NO. OF JOBS ADDED**

This graph reflects the number of jobs added to the database with the ADD function of the job definition panel.

### **0040 NO. OF JOBS DELETED**

This reflects the number of jobs deleted from the database with the DELETE function of the job definition panel.

### **0050 NO. OF DATASETS ADDED**

This graph reflects the number of data sets added to the database with the ADD function of the DB.6 panel.

### **0060 NO. OF DATASETS DELETED**

This graph reflects the number of data sets deleted from the database with the DELETE function of the DB.6 panel.

### **0070 NO. OF NETWORKS ADDED**

This graph reflects the number of networks added to the database with the ADD function of the DB.5 panel.

### **0080 NO. OF NETWORKS DELETED**

This graph reflects the number of networks deleted from the database with the DELETE function of the DB.5 panel.

### **0090 NO. OF PROSE MEMBERS ADDED**

This graph reflects the number of prose members added to the database with the SAVE function of a PROSE panel.

### **0100 NO. OF PROSE MEMBERS DELETED**

This graph reflects the number of prose members deleted from the database with the DELETE function of the following:

- A workload documentation panel
- The job definition panel for an associated job
- The DB.6 panel for an associated data set name
- The DB.5 panel for an associated network

**0110 NO. OF INPUT SCHEDULES ADDED**

This graph reflects the number of input workstation network schedules added to the database with the SAVE function of the DB.2.2 panel.

**0120 NO. OF INPUT SCHEDULES DELETED**

This graph reflects the number of input workstation network schedules deleted from the database with the DELETE function of the DB.2.2 panel or the DELETE function of the DB.5 panel for an associated input network.

**0130 NO. OF JOB SCHEDULES ADDED**

This graph reflects the number of job schedules added to the database with the SAVE function of the DB.2.1 panel.

**0140 NO. OF JOB SCHEDULES DELETED**

This graph reflects the number of job schedules deleted from the database with the DELETE function of the DB.2.1 panel or the DELETE function of the job definition panel for an associated job.

**0150 NO. OF OUTPUT SCHEDULES ADDED**

This graph reflects the number of output workstation network schedules added to the database with the SAVE function of the DB.2.3 panel.

**0160 NO. OF OUTPUT SCHEDULES DELETED**

This graph reflects the number of output workstation network schedules deleted from the database with the DELETE function of the DB.2.3 panel or the DELETE function of the DB.5 panel for an associated output network.

**0170 DATABASE LOCK-OUTS**

This graph reflects the number of times that a database update had to wait for the completion of another update already in process.

**0180 JOB CONNECTS**

This graph reflects the number of job connections added to the database with the A (ADD) option of the DB.3.2 panel.

**0190 JOB DISCONNECTS**

This graph reflects the number of job connections deleted from the database with the D (DELETE) option of the DB.3.2 panel.

**0200 DATASET CONNECTS**

This graph reflects the number of data set connections added to the database with the A (ADD) option of the DB.3.1 panel.

**0210 DATASET DISCONNECTS**

This graph reflects the number of data set connections deleted from the database with the D (DELETE) option of the DB.3.1 panel or the DELETE function of the DB.6 panel for an associated data set.

**0220 INPUT NETWORK CONNECTS**

This graph reflects the number of input workstation network connections added to the database with the A (ADD) option of the DB.3.1 panel.

**0230 INPUT NETWORK DISCONNECTS**

This graph reflects the number of input workstation network connections deleted from the database with the D (DELETE) option of the DB.3.4 panel or the DELETE function of the DB.5 panel for an associated input network.

**0240 OUTPUT NETWORK CONNECTS**

This graph is the same as 0220 except it is for output workstation networks.

**0250 OUTPUT NETWORK DISCONNECTS**

This graph is the same as 0230 except it is for output workstation networks.

**0260 USER CONNECTS**

This graph reflects the number of user requirement connections added to the database with the C option of the DB.3.6 panel.

**0270 USER DISCONNECTS**

This graph reflects the number of user requirement connections deleted from the database with the D option of the DB.3.6 panel or the DELETE function of the job definition panel for an associated job.

**0280 JOB TRIGGERS ADDED**

This graph reflects the number of job trigger schedules added to the database with the A option of the DB.2.4 panel.

**0290 JOB TRIGGERS DELETED**

This graph reflects the number of job trigger schedules deleted from the database with the D option of the DB.2.4 panel.

**0300 DATASET TRIGGERS ADDED**

This graph reflects the number of data set trigger schedules added to the database with the A option of the DB.2.6 panel.

**0310 DATASET TRIGGERS DELETED**

This graph reflects the number of data set trigger schedules deleted from the database with the D option of the DB.2.6 panel or the DELETE function of the DB.6 panel for an associated job.

**0320 NETWORK TRIGGERS ADDED**

This graph reflects the number of input workstation network trigger schedules added to the database with the A option of the DB.2.5 panel.

**0330 NETWORK TRIGGERS DELETED**

This graph reflects the number of input workstation network trigger schedules deleted from the database with the D option of the DB.2.5 panel or the DELETE function of the DB.5 panel for an associated network.

**0340 NO. OF TIMES DBTASKS ARE BUSY**

This graph reflects the number of times DBTASKS are busy.

**0350 NO. OF CALLS TO CA DATACOM**

This graph reflects the number of calls to CA Datacom/AD. This count includes calls that are reported in the GRAPHD IDs 0360, 0370, 0380, 0390, 0400 and 0410 and other system calls.

**0360 CA DATACOM CALLS FOR ARF**

This graph reflects the number of CA Datacom/AD calls associated with ARF data.

**0370 CA DATACOM CALLS FOR DATASETS**

This graph reflects the number of CA Datacom/AD calls associated with Dataset data.

**0380 CA DATACOM CALLS FOR INDEXES**

This graph reflects the number of CA Datacom/AD calls associated with Indexed data.

**0390 CA DATACOM CALLS FOR JOBS**

This graph reflects the number of CA Datacom/AD calls associated with JOB data.

**0400 CA DATACOM CALLS FOR QUEUES**

This graph reflects the number of CA Datacom/AD calls associated with active workload data.

**0410 CA DATACOM CALLS FOR VRM**

This graph reflects the number of CA Datacom/AD calls associated with VRM data.

## GRAPHJ - Job Graph Descriptions

These graphs reflect performance and characteristics of jobs processed in the CA WA CA 7 Edition environment.

### **0010 TOTAL NUMBER OF JOBS SCHEDULED BY CA-7**

This graph reflects the total number of jobs scheduled by triggers, DEMAND, RUN, or LOAD commands or date/time schedules through schedule scan.

### **0020 TOTAL NUMBER OF JOBS SCHEDULED SUCCESSFULLY**

This reflects the number of scheduled jobs (from 0010) that made it to the request queue successfully. Unavailable CA WA CA 7 Edition job numbers, LOCK conditions, NXTCYC commands, DEMAND, SET=SKP, and so forth, can prevent successful scheduling.

### **0025 AVERAGE NUMBER OF EXPIRED JOB SCHEDULES PER SCAN**

This graph reflects the average number of expired job schedules per schedule scan.

### **0030 PERCENTAGE OF JOBS SCHEDULED SUCCESSFULLY**

This graph reflects the percentage of jobs scheduled (from 0010) that were successfully scheduled (from 0020).

### **0040 TOTAL JOBS COMPLETED NORMALLY**

This graph reflects the number of jobs that completed without an ABEND and also passed, if specified, condition code tests defined on the job definition panel. This would include restarted jobs whose restart ran successfully and completed normally. Only the successful run of the job is counted.

### **0050 NO. OF JOBS RUN W/JCL OVERRIDES**

This graph reflects the number of jobs that were run whose JCL or PARM data had been updated using the QJCL command. Refer to graphs 1060 and 1070 for other types of overrides.

### **0060 NORMAL COMPLETION REQUIRING NO RESTART**

This graph reflects the number of normal job completions (from 0040) that did not require a restart through the QM.4 panel or RESTART command.

### **0070 NUMBER OF JOBS RESTARTED ONCE**

This graph reflects the number of jobs that completed typically (from 0040) and required a single restart through the QM.4 panel or RESTART command.

### **0080 NUMBER OF JOBS RESTARTED MORE THAN ONCE**

This graph reflects the number of jobs that completed typically (from 0040) and required more than one restart through the QM.4 panel or RESTART command.

**0090 TOTAL NUMBER OF RESTARTS**

This graph reflects the total number of jobs restarted once (from 0070) plus jobs restarted more than once (from 0080).

**0100 NUMBER OF JOBS LATE**

This graph reflects the total number of jobs that completed after the specified due-out time.

**0110 NUMBER OF JOBS > HOUR LATE**

This graph reflects the number of late jobs (from 0100) that completed one hour or more after the due-out time.

**0120 NUMBER OF JOBS > 1 HOUR EARLY**

This graph reflects the number of jobs that completed before the specified due-out time by one hour or more.

**0130 NUMBER OF RESTARTS LATE**

This graph reflects the number of late jobs (from 0100) that were restarted through the QM.4 panel at least once.

**0140 NORMAL COMPLETION W/NON-ZERO CONDITION CODE**

This graph reflects the number of normal job completions (from 0040) that completed with an acceptable condition code other than zero.

**0150 NORMAL COMPLETIONS W/ZERO CONDITION CODE**

This graph reflects the number of jobs that completed successfully with a condition code of zero. Calculated from 0040 minus nonzero from 0140.

**0160 ACCUMULATED CPU TIME FOR NORMALLY COMPLETED JOBS IN MINUTES**

This graph reflects the aggregate CPU time consumed by jobs completing normally (from 0040). Accumulated from SMF job completion records.

**0170 ACCUMULATED ELAPSED TIME FOR NORMALLY COMPLETED JOBS IN MINUTES**

This graph reflects the aggregate elapsed time consumed by jobs completing normally (from 0040). Accumulated from SMF job initiation and job completion records.

**0180 ACCUMULATED JES DWELL TIME FOR NORMALLY COMPLETED JOBS IN MINUTES**

This graph reflects the aggregate JES dwell time for CA WA CA 7 Edition submitted jobs measured as the difference between submit time by CA WA CA 7 Edition and generation of the SMF job initiation record.

**0190 PERCENTAGE OF JOBS W/JCL OVERRIDES**

This graph reflects the percentage of normal completions (from 0040) that were run with JCL overrides (from 0050).

**0200 PERCENTAGE OF NORMAL COMPLETIONS REQUIRING NO RESTART**

This graph reflects the percentage of normal completions (from 0040) that did not require a restart (from 0060).

**0210 PERCENTAGE OF NORMAL COMPLETIONS REQUIRING A RESTART**

This graph reflects the percentage of normal completions (from 0040) that did require at least one restart. Calculated from 0040 minus no restarts (from 0060).

**0220 PERCENTAGE OF JOBS RESTARTED ONCE**

This graph reflects the percentage of normal completions (from 0040) that required a single restart (from 0070).

**0230 PERCENTAGE OF JOBS RESTARTED MORE THAN ONCE**

This graph reflects the percentage of normal completions (from 0040) that required more than one restart (from 0080).

**0240 PERCENTAGE OF JOBS RUN LATE**

This graph reflects the percentage of normal completions (from 0040) that completed after the due-out time (from 0100).

**0250 PERCENTAGE OF JOBS > 1 HOUR LATE**

This graph reflects the percentage of normal completions (from 0040) that completed more than one hour beyond the due-out time (from 0110).

**0260 PERCENTAGE OF JOBS > 1 HOUR EARLY**

This graph reflects the percentage of normal completions (from 0040) that completed more than one hour before the due-out time (from 0120).

**0270 PERCENTAGE OF NON-ZERO CONDITION CODES**

This graph reflects the percentage of normal completions (from 0040) that completed with a nonzero condition code (from 0140).

**0280 PERCENTAGE OF ZERO CONDITION CODES**

This graph reflects the percentage of normal completions (from 0040) that completed with a condition code of zero (from 0040 minus nonzeros from 0140).

**0290 AVERAGE CPU TIME FOR NORMALLY COMPLETED JOBS IN SECONDS**

This graph reflects the average amount of CPU time used by normally completing jobs (from 0040). Calculated from 0160 divided by job count from 0040.

**0300 AVERAGE ELAPSED TIME FOR NORMALLY COMPLETED JOBS IN MINUTES**

This graph reflects the average amount of elapsed time required for normal job completions (from 0040). Calculated from 0170 divided by job count from 0040.

**0310 AVERAGE JES DWELL TIME FOR NORMALLY COMPLETED JOBS IN MINUTES**

This graph reflects the average amount of JES dwell time for normal job completions (from 0040). Calculated from 0180 divided by job count from 0040.

**0320 TOTAL JOBS SUBMITTED BY CA-7**

This graph reflects a count of all jobs written to either the internal reader or a submit data set by CA WA CA 7 Edition.

**0330 TOTAL JOBS RUN (CA-7 OR OTHER)**

This graph reflects a count of the total SMF type 26 records encountered in the SMF exits whether CA WA CA 7 Edition submitted the job. Does not include started tasks or TSO sessions.

**0335 TOTAL EXT. JOBS TRACKED BY CA-7**

This graph reflects a count of the total jobs submitted outside of CA WA CA 7 Edition but tracked using SMF data.

**0340 PERCENTAGE OF TOTAL JOBS SUBMITTED BY CA-7**

This graph reflects the percentage of the total jobs run (from 0330) that CA WA CA 7 Edition submitted (from 0320).

**0350 PERCENTAGE OF CA-7 SUBMITTED JOBS WHICH COMPLETED NORMALLY**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that ran to normal completion (from 0040).

**0360 NUMBER OF JCL ERRORS**

This graph reflects the total number of CA WA CA 7 Edition jobs that terminated with a JCL error as determined from SMF job termination records.

**0370 TOTAL NUMBER OF ABENDS**

This graph reflects the total number of steps in CA WA CA 7 Edition jobs that terminated with either a system or user abend as determined from SMF step termination records.

**0380 NUMBER OF USER ABENDS**

This graph reflects the number of abends (from 0370) that were user abends.

**0390 NUMBER OF SYSTEM ABENDS**

This graph reflects the number of abends (from 0370) that were system abends.

**0400 NUMBER OF CONDITION CODE FAILURES**

This graph reflects the number of jobs that failed the job definition panel condition code test.

**0410 NUMBER OF JCL ERRORS W/JCL OVERRIDES**

This graph reflects the number of jobs with JCL errors (see 0360) that included JCL or PARM data overrides (see 0050).

**0420 NUMBER OF ABENDS W/JCL OVERRIDES**

This graph reflects the number of jobs that abended (see 0370) and were run with JCL overrides (see 0050).

**0430 NUMBER OF JOB STEPS RUN**

This graph reflects the total number of job steps run in CA WA CA 7 Edition controlled jobs as measured by SMF step termination records.

**0440 TOTAL NUMBER OF JOBS RUN UNSUCCESSFULLY**

This graph reflects the total number of jobs that completed with a JCL error (from 0360), an abend (from 0370), or a condition code failure (from 0400).

**0450 NUMBER OF INPUT DATASETS**

This graph reflects the number of data sets used in CA WA CA 7 Edition controlled jobs with a DISP parameter of OLD or SHR.

**0460 NUMBER OF OUTPUT DATASETS**

This graph reflects the number of data sets used in CA WA CA 7 Edition controlled jobs with a DISP parameter of NEW or MOD.

**0470 TAPE REFERENCE COUNT**

This graph reflects the number of tape data sets, either input or output, which jobs run under control of CA WA CA 7 Edition accessed.

**0480 NUMBER OF INPUT TAPE DATASETS**

This graph reflects the number of tape data sets (from 0470) that were accessed as input (see 0450).

**0490 NUMBER OF OUTPUT TAPE DATASETS**

This graph reflects the number of tape data sets (from 0470) that were accessed as output (see 0460).

**0500 TAPE GDG COUNT**

This graph reflects the number of tape data sets, either input or output (see 0470), which were GDGs.

**0510 TAPE EXCP COUNT (UNIT=100 EXCPS)**

This graph reflects the number of EXCPS for tape data sets (see 0470), either input or output, in units of 100.

**0520 DASD REFERENCE COUNT**

This graph reflects the number of DASD data sets, either input or output, which jobs run under control of CA WA CA 7 Edition accessed.

**0530 NUMBER OF INPUT DASD DATASETS**

This graph reflects the number of DASD data sets (from 0520) that were accessed as input (see 0450).

**0540 NUMBER OF OUTPUT DASD DATASETS**

This graph reflects the number of DASD data sets (from 0520) that were accessed as output (see 0460).

**0550 DASD GDG COUNT**

This graph reflects the number of DASD data sets, either input or output (see 0520), which were GDGs.

**0560 DASD EXCP COUNT (UNIT=100 EXCPS)**

This graph reflects the number of EXCPs for DASD data sets (see 0520), either input or output, in units of 100.

**0570 AVERAGE NO. OF INPUT DATASETS PER CA-7 JOB**

This graph reflects the average number of input data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0450 divided by count from 0320.

**0580 AVERAGE NO. OF OUTPUT DATASETS PER CA-7 JOB**

This graph reflects the average number of output data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0460 divided by job count from 0320.

**0590 AVERAGE NO. OF TAPE DATASETS PER CA-7 JOB**

This graph reflects the average number of tape data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0470 divided by job count from 0320.

**0600 AVERAGE NO. OF INPUT TAPE DATASETS PER CA-7 JOB**

This graph reflects the average number of input tape data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0480 divided by job count from 0320.

**0610 AVERAGE NO. OF OUTPUT TAPE DATASETS PER CA-7 JOB**

This graph reflects the average number of output tape data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0490 divided by job count from 0320.

**0620 AVERAGE NO. OF DASD DATASETS PER CA-7 JOB**

This graph reflects the average number of DASD data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0520 divided by job count from 0320.

**0630 AVERAGE NO. OF INPUT DASD DATASETS PER CA-7 JOB**

This graph reflects the average number of input DASD data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0530 divided by job count from 0320.

**0640 AVERAGE NO. OF OUTPUT DASD DATASETS PER CA-7 JOB**

This graph reflects the average number of output DASD data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0540 divided by job count from 0320.

**0650 AVERAGE NO. OF INPUT DATASETS PER STEP**

This graph reflects the average number of input data sets used per job step in jobs submitted by CA WA CA 7 Edition. Calculated from 0450 divided by step count from 0430.

**0660 AVERAGE NO. OF OUTPUT DATASETS PER STEP**

This graph reflects the average number of output data sets used per job step in jobs submitted by CA WA CA 7 Edition. Calculated from 0460 divided by step count from 0430.

**0670 AVERAGE NO. OF TAPE EXCPS PER CA-7 JOB (UNIT=100 EXCPS)**

This graph reflects the average number of I/Os (EXCPS) for tape data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0510 divided by job count from 0320.

**0680 AVERAGE NO. OF DASD EXCPS PER CA-7 JOB (UNIT=100 EXCPS)**

This graph reflects the average number of I/Os (EXCPS) for DASD data sets used in jobs submitted by CA WA CA 7 Edition. Calculated from 0560 divided by job count from 0320.

**0690 PERCENTAGE OF JOBS SCHEDULED W/JCL ERRORS**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that terminated with a JCL error. Calculated from 0360 divided by job count from 0320.

**0700 PERCENTAGE OF JOBS SCHEDULED THAT ABENDED**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that terminated with some type of abend. Calculated from 0370 divided by job count from 0320.

**0710 PERCENTAGE OF JOBS SCHEDULED W/USER ABENDS**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that terminated with a user abend. Calculated from 0380 divided by job count from 0320.

**0720 PERCENTAGE OF JOBS SCHEDULED W/SYSTEM ABENDS**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that terminated with a system abend. Calculated from 0390 divided by job count from 0320.

**0730 PERCENTAGE OF JOBS SCHEDULED W/CONDITION CODE FAILURES**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that terminated with an unacceptable condition code. Calculated from 0400 divided by job count from 0320.

**0740 PERCENTAGE OF CA-7 JOBS RUN UNSUCCESSFULLY**

This graph reflects the percentage of jobs submitted by CA WA CA 7 Edition (from 0320) that terminated unsuccessfully for any reason. Calculated from 0440 divided by job count from 0320.

**0750 PERCENTAGE OF UNSUCCESSFUL JOBS W/JCL ERRORS**

This graph reflects the percentage of jobs that failed (from 0440) and terminated with a JCL error (from 0360).

**0760 PERCENTAGE OF UNSUCCESSFUL JOBS W/ABENDS**

This graph reflects the percentage of jobs that failed (from 0440) and terminated with some type of abend (from 0370).

**0770 PERCENTAGE OF UNSUCCESSFUL JOBS W/USER ABENDS**

This graph reflects the percentage of jobs that failed (from 0440) and terminated with a user abend (from 0380).

**0780 PERCENTAGE OF UNSUCCESSFUL JOBS W/SYSTEM ABENDS**

This graph reflects the percentage of jobs that failed (from 0440) and terminated with a system abend (from 0390).

**0790 PERCENTAGE OF UNSUCCESSFUL JOBS W/CONDITION CODE FAILURES**

This graph reflects the percentage of jobs that failed (from 0440) and terminated with an unacceptable condition code (from 0400).

**0800 PERCENTAGE OF JCL ERRORS W/JCL OVERRIDES**

This graph reflects the percentage of jobs that failed due to a JCL error (from 0360) and also contained JCL or PARM data overrides (from 0410).

**0810 PERCENTAGE OF JCL ERRORS WITHOUT JCL OVERRIDES**

This graph reflects the percentage of jobs that failed due to a JCL error (from 0360) and did not contain JCL or PARM data overrides. Calculated as failures (from 0360) minus overrides (from 0410) divided by failures (from 0360).

**0820 PERCENTAGE OF ABENDS W/JCL OVERRIDES**

This graph reflects the percentage of jobs that failed with an abend (from 0370) and also contained JCL or PARM data overrides (from 0420).

**0830 PERCENTAGE OF ABENDS WITHOUT JCL OVERRIDES**

This graph reflects the percentage of jobs that failed with an abend (from 0370) and did not contain JCL or PARM data overrides. Calculated as abends (from 0370) minus overrides (from 0420) divided by abends (from 0370).

**0840 AVERAGE NO. OF STEPS PER CA-7 JOB**

This graph reflects the average number of job steps (from 0430) in jobs submitted by CA WA CA 7 Edition (from 0320).

**0850 JOBS SUBMITTED VIA SCHEDULE SCAN**

This graph reflects the number of jobs with date/time schedules that were scheduled for execution by schedule scan.

**0860 NUMBER OF JOB TRIGGERS**

This graph reflects the number of successful job triggers handled whether they triggered one or more other jobs for execution.

**0870 NUMBER OF NETWORK TRIGGERS**

This is the same as 0860 except it reflects triggers by input workstation networks.

**0880 NUMBER OF DATASET TRIGGERS**

This is the same as 0860 except it reflects triggers by data set creations.

**0890 TOTAL NUMBER OF TRIGGERS**

This graph reflects the total number of jobs scheduled by some form of trigger.

**Note:** Unless each trigger definition only triggers one job, this count is unlikely to total against 0860, 0870 and 0880.

**0900 DEMANDED JOBS**

This graph reflects the number of jobs scheduled through CA WA CA 7 Edition with the DEMAND or DEMANDH commands.

**0910 TOTAL JOBS LOADED**

This graph reflects the total number of jobs using the CA WA CA 7 Edition LOAD function as a result of a LOAD or LOADH command or flagged with the DB.1 panel RELOAD option. The RELOAD option can also be set by using the DB.7 panel REPL or SAVE functions.

**0920 NUMBER OF JOBS MARKED AS -LOAD ONLY-**

This graph reflects the total number of jobs from 0910 that were loaded as a result of a LOAD or LOADH command.

**0930 NUMBER OF -RUN- COMMANDS**

This graph reflects the number of jobs run as a result of a RUN or RUNH command.

**0940 NUMBER OF RUNS FROM JCL SCREEN (RUNH)**

This graph reflects the number of jobs run as the result of the RUN or RUNH functions of the DB.7 panel.

**0950 NO. OF JOB REQUIREMENTS**

This graph reflects the number of job dependency requirements, defined with the DB.3.2 panel, which were encountered while jobs were being scheduled.

**0960 NO. OF JOB REQUIREMENTS INITIALLY SATISFIED**

This graph reflects the number of job requirements (from 0950) that were satisfied at the time that the dependent job entered the request queue.

**0970 NO. OF NETWORK REQUIREMENTS**

This graph is the same as 0950 except it is for requirements defined with the DB.3.4 panel.

**0980 NO. OF NETWORK REQUIREMENTS INITIALLY SATISFIED**

This graph is the same as 0960 except it is for network requirements from 0970.

**0990 NO. OF DATASET REQUIREMENTS**

This graph is the same as 0950 except it is for requirements defined with the DB.3.1 panel.

**1000 NO. OF DATASET REQUIREMENTS INITIALLY SATISFIED**

This graph is the same as 0960 except it is for data set requirements from 0990.

**1010 NO. OF USER REQUIREMENTS**

This graph is the same as 0950 except it is for requirements defined with the DB.3.6 panel.

**1020 NO. OF JOBS W/VERIFY REQUIREMENT**

This graph reflects the number of jobs entering the request queue with a #VER command or having VERIFY indicated on the job definition panel.

**1030 NO. OF JOBS W/OVERRIDE REQUIREMENT**

This graph reflects the number of jobs that entered the request queue with an override requirement specified with a #Jx or #Xx command, the DB.1 panel JCL-OVRD, or job definition panel USE-OVRD-LIB indicators.

**1040 NO. OF JOBS MARKED AS NON-EXECUTABLE**

This graph reflects the number of jobs scheduled that were marked nonexecutable with either a #NOX command or the EXEC option of the job definition panel.

**1050 NO. OF JOBS W/AUTO RMS STEP GENERATION**

This graph reflects the number of jobs run with the DB.1 panel option RESTART equal to Y, causing CA WA CA 7 Edition to insert a CA WA Restart Option RMS step.

**1060 NO. OF JOBS W/ OVERRIDES FROM JCL LIBRARY**

This graph reflects the number of jobs scheduled that the job definition panel USE-OVRD-LIB function flagged.

**1070 NO. OF JOBS W/ # OVERRIDES**

This graph reflects the number of jobs scheduled that included #Jx or #Xx statements.

**1080 NO. OF FORCE COMPLETES**

This graph reflects the number of jobs forced to completion with the FORCE COMPLETION option of the QM.4 panel or RESTART command.

**1090 NO. OF MAINTENANCE JOBS**

This graph reflects the number of jobs run with either MAINT=Y on the DB.1 panel or with a #MNT command.

**1100 NO. OF UPDATES TO OVERRIDE LIBRARY**

This graph reflects the number of times that a REPL or SAVE function of the DB.7 panel was used with a JCL-ID of 254.

**1110 NO. OF UPDATES TO JCL LIBRARY**

This graph is the same as 1100 except it reflects activity for all JCL-ID values other than 254 or the use of the DSN and VOLSER options on the DB.7 panel.

**1120 NEXT CYCLE SKIP**

This graph reflects the number of jobs skipped as a result of the SET=SKP option of the NXTCYC or DEMAND commands.

**1130 NEXT CYCLE OFF**

This graph reflects the number of jobs skipped as a result of the SET=OFF option of the NXTCYC command.

**1140 NO. OF LOG DUMP JOBS SUBMITTED**

This graph reflects the number of log dump jobs (see the DBASE statement JOB parameter in the initialization file) that CA WA CA 7 Edition automatically submitted to dump either the primary or secondary log data sets.

**1150 NO. OF JCL ATTACH FAILURES**

This graph reflects the number of jobs not successfully scheduled for which the JCL could not be attached from the JCL library or the override library.

**1170 NO. OF LOCKED JOBS**

This graph reflects the number of jobs not successfully scheduled that were found to have unresolved calendar schedules or had not been successfully LOADED by CA WA CA 7 Edition.

**1180 NO. OF JOBS CANCELED**

This graph reflects the number of jobs scheduled but then canceled with a CANCEL command or the C option of the QM.1 panel.

**1190 PERCENTAGE OF JOBS SCHEDULED VIA SCHEDULE SCAN**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that schedule scan (from 0850) scheduled.

**1200 PERCENTAGE OF JOBS SCHEDULED VIA JOB TRIGGERS**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that job triggers (from 0860) scheduled.

**1210 PERCENTAGE OF JOBS SCHEDULED VIA NETWORK TRIGGERS**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that network triggers (from 0870) scheduled.

**1220 PERCENTAGE OF JOBS SCHEDULED VIA DATASET TRIGGERS**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that data set triggers (from 0880) scheduled.

**1230 PERCENTAGE OF JOBS SCHEDULED VIA AUTO TRIGGERS**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that auto triggers (from 0890) scheduled.

**1240 PERCENTAGE OF JOBS DEMANDED**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that a DEMAND command (from 0900) scheduled.

**1250 PERCENTAGE OF JOBS LOADED**

This graph reflects the percentage of jobs scheduled successfully (from 0020) that used the CA WA CA 7 Edition LOAD function (from 0910).

**1260 PERCENTAGE OF -LOAD ONLY- JOBS**

This graph reflects the percentage of jobs using the LOAD function (from 0910) that executed only the LOAD function (from 0920).

**1270 PERCENTAGE OF -LOAD AND EXECUTE- JOBS**

This graph reflects the percentage of jobs using the LOAD function (from 0910) that executed the normal job steps. Calculated as (LOAD jobs from 0910 minus LOAD-only jobs from 0920) divided by total LOAD job count from 0910.

**1280 JOBS SCHEDULED VS. RUN COMMANDS**

This compares the number of jobs scheduled successfully (from 0020) with the number scheduled with a RUN or RUNH command (from 0930). Calculated from 0930 divided by job count from 0020.

**1290 JOBS SCHEDULED VS. RUN FROM JCL SCREEN (RUNH)**

This graph compares the number of jobs scheduled successfully (from 0020) with the number scheduled with the RUN or RUNH options of the DB.7 panel (from 0940). Calculated from 0940 divided by job count from 0020.

**1300 AVERAGE NO. OF JOB REQUIREMENTS PER JOB**

This graph reflects the average number of job requirements (from 0950) for jobs scheduled successfully by CA WA CA 7 Edition (from 0020).

**1310 PERCENTAGE OF JOB REQUIREMENTS INITIALLY SATISFIED**

This graph reflects the percentage of job requirements (from 0950) that were initially satisfied (from 0960).

**1320 AVERAGE NO. OF NETWORK REQUIREMENTS PER JOB**

This graph reflects the average number of input network requirements (from 0970) per job scheduled successfully by CA WA CA 7 Edition (from 0020).

**1330 PERCENTAGE OF NETWORK REQUIREMENTS INITIALLY SATISFIED**

This graph reflects the percentage of network requirements (from 0970) that were initially satisfied (from 0980).

**1340 AVERAGE NO. OF DATASET REQUIREMENTS PER JOB**

This graph reflects the average number of data set requirements (from 0990) per job scheduled successfully by CA WA CA 7 Edition (from 0020).

**1350 PERCENTAGE OF DATASET REQUIREMENTS INITIALLY SATISFIED**

This graph reflects the percentage of data set requirements (from 0990) that were initially satisfied (from 1000).

**1360 AVERAGE NO. OF USER REQUIREMENTS PER JOB**

This graph reflects the average number of user requirements (from 1010) per job scheduled successfully by CA WA CA 7 Edition (from 0020).

**1370 PERCENTAGE OF JOBS W/VERIFY REQUIREMENT**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that had a verify requirement (from 1020).

**1380 PERCENTAGE OF JOBS W/OVERRIDE REQUIREMENT**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that had a JCL or PARM data override requirement (from 1030).

**1390 PERCENTAGE OF JOBS MARKED AS NON-EXECUTABLE**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that were marked as nonexecutable (from 1040).

**1400 PERCENTAGE OF JOBS W/AUTO RMS STEP GENERATION**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that had the CA WA Restart Option RMS step inserted by CA WA CA 7 Edition (from 1050).

**1410 PERCENTAGE OF JOBS W/OVERRIDES FROM JCL LIBRARY**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that had JCL overrides included from the CA WA CA 7 Edition override library (from 1060).

**1420 JOBS SCHEDULED VS. # OVERRIDES**

This graph compares the number of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) with the number of jobs using the # override technique (from 1070). Calculated as number of # jobs divided by jobs scheduled.

**1430 PERCENTAGE OF JOBS FORCED COMPLETE**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that were forced complete (from 1080).

**1440 PERCENTAGE OF MAINTENANCE JOBS**

This graph reflects the percentage of jobs scheduled successfully by CA WA CA 7 Edition (from 0020) that were jobs marked as MAINT jobs (from 1090).

**1450 PERCENTAGE OF -NEXT CYCLE SKIP-**

This graph reflects the percentage of jobs scheduled (from 0010) that were not scheduled successfully because they were marked as skip-next-cycle (from 1120).

**1460 PERCENTAGE OF -NEXT CYCLE OFF-**

This graph reflects the percentage of jobs scheduled (from 0010) that were not scheduled successfully because they were marked as next-cycle-off (from 1130).

**1470 PERCENTAGE OF JOBS CANCELED**

This graph reflects the percentage of jobs scheduled successfully by (from 0020) that were later canceled (from 1180).

**1480 PERCENTAGE OF JOBS -LOCKED-**

This graph reflects the percentage of jobs scheduled (from 0010) that were not scheduled successfully because of a LOCK condition (from 1170).

**1490 PERCENTAGE OF JCL ATTACH FAILURES**

This graph reflects the percentage of jobs scheduled (from 0010) that were not scheduled successfully due to JCL attach failures (from 1150).

## GRAPHN - Network Graph Descriptions

These graphs reflect activity volumes and performance data for preprocessing and postprocessing workstation networks.

**0010 POST/PROCESS NETWORKS SCHEDULED**

This graph is a simple count of the number of times that CA WA CA 7 Edition scheduled an output workstation network. Multiple schedule occurrences of the same network are counted separately.

**0020 PRE/PROCESS NETWORKS SCHEDULED**

This graph is the same as 0010 except it is for input workstation networks.

**0025 AVERAGE NUMBER OF EXPIRED NETWORK SCHEDULES PER SCAN**

This graph reflects the average number of expired network schedules per schedule scan.

**0030 POST/PROCESS STATIONS SCHEDULED**

Each time that an output workstation network is scheduled, the number of workstations in the network are accumulated.

**0040 PRE/PROCESS STATIONS SCHEDULED**

This graph is the same as 0030 except it is for input workstation networks.

**0050 POST/PROCESS CANCELED**

This graph reflects the number of scheduled output workstation networks that were canceled with a CANCEL command or the C option on the QM.7 panel.

**0060 PRE/PROCESS CANCELED**

This graph reflects the number of scheduled input workstation networks that were canceled with a CANCEL command or the C option on the QM.6 panel.

**0070 OUTPUT NETWORKS LATE**

This graph reflects the number of times that the last station in an output workstation network was logged out after the due-out time.

**0080 INPUT NETWORKS LATE**

This graph is the same as 0070 except it is for input workstation networks.

**0090 INPUT STATIONS LOGGED IN LATE**

This graph reflects the number of times that an input workstation was logged in after the scheduled start time (due-out minus lead time).

**0100 OUTPUT STATIONS LOGGED IN LATE**

This graph is the same as 0090 except it is for output workstations.

**0110 INPUT STATIONS LOGGED OUT LATE**

This graph reflects the number of times that an input workstation was logged out after the due-out time.

**0120 OUTPUT STATIONS LOGGED OUT LATE**

This graph is the same as 0110 except it is for output workstations.

**0130 NO. OF INPUT STATIONS LOGGED IN ON-TIME, BUT LOGGED OUT LATE**

This graph reflects the number of times that an input workstation was logged in on or before the scheduled start time but was not logged out until after the due-out time.

**0140 NO. OF OUTPUT STATIONS LOGGED IN ON-TIME, BUT LOGGED OUT LATE**

This graph is the same as 0130 except it is for output workstations.

**0150 PERCENTAGE OF OUTPUT NETWORKS ON-TIME**

This graph reflects the percentage of scheduled output networks (from 0010) that were *not* completed late (from 0070). Calculated as scheduled minus late divided by scheduled.

**0160 PERCENTAGE OF OUTPUT NETWORKS LATE**

This graph reflects the percentage of scheduled output networks (from 0010) that were completed late (from 0070). Calculated as late divided by scheduled.

**0170 PERCENTAGE OF INPUT NETWORKS ON-TIME**

This graph reflects the percentage of scheduled input networks (from 0020) that were not completed late (from 0080). Calculated as scheduled minus late divided by scheduled.

**0180 PERCENTAGE OF INPUT NETWORKS LATE**

This graph reflects the percentage of scheduled input networks (from 0020) that were completed late (from 0080). Calculated as late divided by scheduled.

**0190 PERCENTAGE OF OUTPUT NETWORKS CANCELLED**

This graph reflects the percentage of scheduled output networks (from 0010) that were canceled (from 0050). Calculated as canceled divided by scheduled.

**0200 PERCENTAGE OF INPUT NETWORKS CANCELLED**

This graph reflects the percentage of scheduled input networks (from 0020) that were canceled (from 0060). Calculated as canceled divided by scheduled.

**0210 PERCENTAGE OF OUTPUT STATIONS LOGGED IN ON-TIME**

This graph reflects the percentage of scheduled output workstations (from 0030) that were *not* logged in late (from 0100). Calculate scheduled minus late divided by scheduled.

**0220 PERCENTAGE OF OUTPUT STATIONS LOGGED IN LATE**

This graph reflects the percentage of scheduled output workstations (from 0030) that were logged in late (from 0100). Calculated as late divided by scheduled.

**0230 PERCENTAGE OF INPUT STATIONS LOGGED IN ON-TIME**

This graph reflects the percentage of scheduled input workstations (from 0040) that were not logged in late (from 0090). Calculated as scheduled minus late divided by scheduled.

**0240 PERCENTAGE OF INPUT STATIONS LOGGED IN LATE**

This graph reflects the percentage of scheduled input workstations (from 0040) that were logged in late (from 0090). Calculated as late divided by scheduled.

## GRAPHS - System Graph Descriptions

These graphs reflect system performance data in terms of the volume of activities performed and the amount of time required to perform the activities.

### **0010 CA-7 ACTIVE TIME IN MINUTES**

This graph reflects the amount of time that CA WA CA 7 Edition was resident in the system as accumulated by CA WA CA 7 Edition from the system clock.

### **0020 CA-7 UP TIME VS. OS WAIT TIME IN SECONDS**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the OS wait time (from 0030). Calculated as OS wait time divided by CA WA CA 7 Edition active time.

### **0030 TOTAL OS WAIT TIME IN MINUTES**

This graph reflects the amount of time that CA WA CA 7 Edition was in a wait state, waiting completion of an OS function, or was idle due to lack of any activity.

### **0040 NUMBER OF WRITES TO STATISTICS FILE**

This graph reflects the number of physical writes to the UCC7STAT data set.

### **0050 COMM. TASK WAIT TIME IN MINUTES**

This graph reflects the aggregate amount of time that the communications task either had nothing to do or was waiting completion of I/O activity on the communications data set.

### **0060 CA-7 UP TIME VS. COMM. TASK ACTIVE TIME IN SECONDS**

This graph compares the CA WA CA 7 Edition active time (from 0010) to the communications task active time (from 0050). Comparison (in seconds) calculated as communications task active time divided by CA WA CA 7 Edition active time.

### **0070 NUMBER OF LOGONS**

This graph reflects the number of successful logons with the /LOGON command.

### **0080 SECURITY VIOLATIONS**

This graph reflects the number of times that attempts were made to violate any CA WA CA 7 Edition security parameters.

### **0090 TERMINAL ERRORS**

This graph reflects the number of hardware-related errors that were encountered for any terminal communicating directly with CA WA CA 7 Edition.

### **0100 NUMBER OF RESPONSES GREATER THAN 10 MINUTES**

This graph reflects the number of CA WA CA 7 Edition terminal responses that took longer than 10 minutes between receipt of the input and queuing of the output message.

**0110 NUMBER OF RESPONSES GREATER THAN 60 SECONDS**

This graph reflects the number of CA WA CA 7 Edition terminal responses that took longer than 60 seconds between receipt of the input and queueing of the output message.

**0120 ACCUMULATED RESPONSE TIME IN MINUTES**

This graph is the aggregate response time for all messages to all terminals.

**0130 TOTAL NO. OF TRANSACTIONS PROCESSED**

This graph reflects the number of times that CA WA CA 7 Edition processed input received from a terminal.

**0140 AVERAGE RESPONSE TIME PER TRANSACTION IN 1/10 SECONDS**

This graph reflects the average response time per CA WA CA 7 Edition transaction (from 0130) in 1/10th of a second increment. Calculated as total response time from 0120 divided by transaction count from 0130.

**0150 AVERAGE NUMBER OF TRANSACTIONS PER LOGON**

This graph reflects the average number of CA WA CA 7 Edition transactions (from 0130) per logon to CA WA CA 7 Edition (from 0070).

**0160 NUMBER OF RESPONSES LESS THAN 3 SECONDS**

This graph reflects the number of CA WA CA 7 Edition responses that took less than 3 seconds between receipt of the input and queueing of the output message.

**0170 PERCENTAGE OF TRANSACTIONS WITH RESPONSE TIME LESS THAN 3 SECONDS**

This graph reflects the percentage of CA WA CA 7 Edition transactions (from 0130) that had a response time of less than 3 seconds (from 0160).

**0180 NUMBER OF RESPONSES LESS THAN 10 SECONDS**

This graph reflects the number of CA WA CA 7 Edition responses that took less than 10 seconds between receipt of the input and queueing of the output message.

**0190 PERCENTAGE OF TRANSACTIONS W/RESPONSE TIME LESS THAN 10 SECONDS**

This graph reflects the percentage of CA WA CA 7 Edition transactions (from 0130) that had a response time of less than 10 seconds (from 0180).

**0200 NUMBER OF RESPONSES LESS THAN 60 SECONDS**

This graph reflects the number of CA WA CA 7 Edition responses that took less than 60 seconds between receipt of the input and queueing of the output message.

**0210 PERCENTAGE OF TRANSACTIONS WITH RESPONSE TIME LESS THAN 60 SECONDS**

This graph reflects the percentage of CA WA CA 7 Edition transactions (from 0130) that had a response time of less than 60 seconds (from 0200).

**0220 PERCENTAGE OF TRANSACTIONS WITH RESPONSE TIME GREATER THAN 60 SECONDS**

This graph reflects the percentage of CA WA CA 7 Edition transactions (from 0130) that had a response time greater than 60 seconds (from 0110).

**0230 SCHEDULE SCAN TASK WAKE-UPS**

This graph reflects the total number of task wake-ups for schedule scan, prompting, LOAD, or job completion processing.

**0240 PROMPTING TASK WAKE-UPS**

This graph reflects the total number of task wake-ups for prompting activity. The count is included on 0230.

**0250 JOB COMPLETION TASK WAKE-UPS**

This graph reflects the total number of task wake-ups for CA WA CA 7 Edition job completion processing. The count is included on 0230.

**0260 JOB LOAD TASK WAKE-UPS**

This graph reflects the total number of task wake-ups for CA WA CA 7 Edition LOAD processing. The count is included on 0230.

**0270 NUMBER OF ACTUAL SCHEDULE SCANS**

This graph reflects the total number of task wake-ups for scanning calendar scheduled tasks. The count is included on 0230.

**0280 SUBMIT TASK WAKE-UPS**

This graph reflects the number of times that the submit task was awakened to scan for jobs to submit.

**0290 SUBTASK WAKE-UPS**

This graph reflects the number of times that one or more OS macros were performed under control of the OS subtask.

**0300 OS MACRO SUBTASK FUNCTIONS**

This graph reflects the total number of OS macro functions performed by the OS subtask. Can be more than the number of task wake-ups on 0290.

**0310 SMF WAKE-UPS**

This graph reflects the number of times that CA WA CA 7 Edition received and processed SMF feedback for jobs under the control of CA WA CA 7 Edition.

**0320 SCHEDULE SCAN TASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the schedule scan task to perform any of its functions.

**0330 PROMPTING TASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the schedule scan task to perform its prompting function.

**0340 JOB COMPLETION TASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the schedule scan task to perform job completion processing.

**0350 JOB LOAD TASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the schedule scan task to perform CA WA CA 7 Edition LOAD processing.

**0360 ACTUAL SCHEDULE SCAN TASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the schedule scan task to perform scans of calendar scheduled work.

**0370 SUBMIT TASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the submit task to submit jobs.

**0380 SUBTASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the subtask to perform all of its functions. See 0390 also.

**0390 OS MACRO SUBTASK ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for the subtask to perform only the OS macro functions. See 0380 also.

**0400 SMF ACTIVE TIME IN SECONDS**

This graph reflects an accumulation of total time required for processing SMF feedback data.

**0410 AVERAGE TIME PER SCHEDULE SCAN TASK WAKE-UP IN 1/10 SECONDS**

This graph reflects the average active time of the schedule scan task (from 0320) per task wake-up (from 0230) in 1/10th of a second increments.

**0420 AVERAGE TIME PER PROMPTING TASK WAKE-UP IN 1/10 SECONDS**

This graph reflects the average active time of the prompting task (from 0330) per task wake-up (from 0240) in 1/10th of a second increments.

**0430 AVERAGE TIME PER JOB COMPLETION TASK WAKE-UP IN 1/10 SECONDS**

This graph reflects the average active time of the job completion task (from 0340) per task wake-up (from 0250) in 1/10th of a second increments.

**0440 AVERAGE TIME PER JOB LOAD TASK WAKE-UP IN 1/10 SECONDS**

This graph reflects the average active time of the job load task (from 0350) per task wake-up (from 0260) in 1/10th of a second increments.

**0450 AVERAGE TIME PER ACTUAL SCHEDULE SCAN IN SECONDS**

This graph reflects the average active time of schedule scan (from 0360) per actual scan (from 0270) in terms of seconds.

**0460 AVERAGE TIME PER SUBMIT TASK WAKE-UP IN 1/10 SECONDS**

This graph reflects the average active time of the submit task (from 0370) per task wake-up (from 0280) in 1/10th of a second increments.

**0470 AVERAGE TIME PER SUBTASK WAKE-UP IN 1/10 SECONDS**

This graph reflects the average subtask active time (from 0380) per task wake-up (from 0290) in 1/10th of a second increments.

**0480 AVERAGE TIME PER OS MACRO SUBTASK IN 1/10 SECONDS**

This graph reflects the average OS macro subtask active time (from 0390) per function performed (from 0300) in 1/10th of a second increments.

**0490 AVERAGE TIME PER SMF TASK WAKE-UP IN SECONDS**

This graph reflects the average active time of the SMF task (from 0400) per task wake-up (from 0310) in terms of seconds.

**0500 CA-7 UP TIME VS. SCHEDULE SCAN TASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the schedule scan task time (from 0320). Calculated as schedule scan task time divided by CA WA CA 7 Edition active time.

**0510 CA-7 UP TIME VS. PROMPTING TASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the prompting task time (from 0330). Calculated as prompting task time divided by CA WA CA 7 Edition active time.

**0520 CA-7 UP TIME VS. JOB COMPLETION TASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the job completion task time (from 0340). Calculated as job completion task time divided by CA WA CA 7 Edition active time.

**0530 CA-7 UP TIME VS. JOB LOAD TASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the job load task time (from 0350). Calculated as job load task time divided by CA WA CA 7 Edition active time.

**0540 CA-7 UP TIME VS. ACTUAL SCHEDULE SCAN TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the actual schedule scan active time (from 0360). Calculated as schedule scan active time divided by CA WA CA 7 Edition active time.

**0550 CA-7 UP TIME VS. SUBMIT TASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the submit task active time (from 0370). Calculated as submit task active time divided by CA WA CA 7 Edition active time.

**0560 CA-7 UP TIME VS. SUBTASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the subtask time (from 0380). Calculated as subtask time divided by CA WA CA 7 Edition active time.

**0570 CA-7 UP TIME VS. OS MACRO SUBTASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the OS macro subtask time (from 0390). Calculated as OS macro subtask time divided by CA WA CA 7 Edition active time.

**0580 CA-7 UP TIME VS. SMF TASK TIME**

This graph compares the CA WA CA 7 Edition active time (from 0010) with the SMF task time (from 0400). Calculated as SMF task time divided by CA WA CA 7 Edition active time.

**0590 TOTAL SUBTASKS VS. OS MACRO CALLS**

This graph compares the OS macro subtask functions performed (from 0300) with the subtask service requests (from 0760). Calculated as service requests divided by subtask functions.

**0600 TOTAL SUBTASK TIME VS. OS MACRO TIME**

This graph compares the subtask active time (from 0380) with the OS macro subtask active time (from 0390). Calculated as OS macro subtask time divided by subtask active time.

**0610 TOTAL MODULE LOAD REQUESTS**

This graph reflects the number of requests to load modules for any of the CA WA CA 7 Edition applications.

**0620 ACTUAL DASD MODULE LOADS**

This graph reflects the number of module load requests (from 0610) that resulted in actually having to load the modules because the modules were not already in-core.

**0630 LOAD REQUESTS VS. DASD LOADS REQUIRED**

This graph compares module load requests (from 0610) with actual DASD loads (from 0620). Calculated as DASD loads divided by load requests.

**0640 MEMORY RECOVERY CONDITIONS**

This graph reflects the number of times that CA WA CA 7 Edition had to reclaim memory from a previously used function to service a request.

**0650 QUEUE LOCK-OUTS**

This graph reflects the number of times that a queue access had to await completion of a function already in process with exclusive control of the queues.

**0660 DATA BASE LOCK-OUTS**

This graph reflects the number of times that a database update had to await completion of another database update that was already in process.

**0670 RECORDS WRITTEN TO LOG DATASET**

This graph reflects the number of records written to the log data set.

**0680 TOTAL NO. OF BLOCKS WRITTEN TO LOG DATASET**

This graph reflects the number of blocks written to the log data set.

**0690 RECORDS PER BLOCK IN LOG DATASET**

This graph reflects the records per block in the log data set calculated as records written (from 0670) divided by blocks written (from 0680).

**0700 CHECKPOINT RECORDS WRITTEN**

This graph reflects the number of records written to the checkpoint data set.

**0710 COMMUNICATION DATASET READS**

This graph reflects the number of read accesses to the CMDS (communications) data set by CA WA CA 7 Edition.

**0720 COMMUNICATION DATASET BUSY CONDITIONS**

This graph reflects the number of times that CA WA CA 7 Edition could not access the CMDS data set due to in-process activities that had exclusive control.

**0730 COMMUNICATION DATASET WRITES**

This graph reflects the number of times that CA WA CA 7 Edition wrote data to the CMDS (communications) data set.

**0740 COMMUNICATION DATASET READ VS. WRITES**

This graph compares communications data set reads (from 0710) with communications data set writes (from 0730). Calculated as number of reads divided by number of writes.

**0750 COMMUNICATION DATASET READS VS. BUSY CONDITIONS**

This graph compares communications data set reads (from 0710) with communications data set busy conditions (from 0720). Calculated as number of reads divided by number of busy conditions.

**0760 SUBTASK SERVICE REQUESTS**

This graph reflects a simple count of the number of requests that required subtask service.

**0770 REQUESTS SERVICED PER SUBTASK POST**

This graph reflects the average number of subtask service requests (from 0760) per subtask wake-up (from 0290).

**1030 NUMBER OF DB ACCESSES FOR DATA TYPE DSD ADDS**

This graph reflects the number of database adds for data type DSD records in the database.

**1040 NUMBER OF DB ACCESSES FOR DATA TYPE DSD DELETES**

This graph reflects the number of database deletes for data type DSD records in the database.

**1050 NUMBER OF DB ACCESSES FOR DATA TYPE DSD GETS**

This graph reflects the number of database reads for data type DSD records in the database.

**1060 NUMBER OF DB ACCESSES FOR DATA TYPE DSD REPLACES**

This graph reflects the number of database replaces for data type DSD records in the database.

**1070 NUMBER OF DB ACCESSES FOR DATA TYPE DSM ADDS**

This graph reflects the number of database adds for data type DSM records in the database.

**1080 NUMBER OF DB ACCESSES FOR DATA TYPE DSM DELETES**

This graph reflects the number of database deletes for data type DSM records in the database.

**1090 NUMBER OF DB ACCESSES FOR DATA TYPE DSM GETS**

This graph reflects the number of database reads for data type DSM records in the database.

**1100 NUMBER OF DB ACCESSES FOR DATA TYPE DSM REPLACES**

This graph reflects the number of database replaces for data type DSM records in the database.

**1130 NUMBER OF DB ACCESSES FOR DATA TYPE I GETS**

This graph reflects the number of database reads for data type I records in the database.

**1140 NUMBER OF DB ACCESSES FOR DATA TYPE I REPLACES**

This graph reflects the number of database replaces for data type I records in the database.

**1150 NUMBER OF DB ACCESSES FOR DATA TYPE JBD ADDS**

This graph reflects the number of database adds for data type JBD records in the database.

**1160 NUMBER OF DB ACCESSES FOR DATA TYPE JBD DELETES**

This graph reflects the number of database deletes for data type JBD records in the database.

**1170 NUMBER OF DB ACCESSES FOR DATA TYPE JBD GETS**

This graph reflects the number of database reads for data type JBD records in the database.

**1180 NUMBER OF DB ACCESSES FOR DATA TYPE JBD REPLACES**

This graph reflects the number of database replaces for data type JBD records in the database.

**1190 NUMBER OF DB ACCESSES FOR DATA TYPE JBM ADDS**

This graph reflects the number of database adds for data type JBM records in the database.

**1200 NUMBER OF DB ACCESSES FOR DATA TYPE JBM DELETES**

This graph reflects the number of database deletes for data type JBM records in the database.

**1210 NUMBER OF DB ACCESSES FOR DATA TYPE JBM GETS**

This graph reflects the number of database reads for data type JBM records in the database.

**1220 NUMBER OF DB ACCESSES FOR DATA TYPE JBM REPLACES**

This graph reflects the number of database replaces for data type JBM records in the database.

**1230 NUMBER OF DB ACCESSES FOR DATA TYPE NWD ADDS**

This graph reflects the number of database adds for data type NWD records in the database.

**1240 NUMBER OF DB ACCESSES FOR DATA TYPE NWD DELETES**

This graph reflects the number of database deletes for data type NWD records in the database.

**1250 NUMBER OF DB ACCESSES FOR DATA TYPE NWD GETS**

This graph reflects the number of database reads for data type NWD records in the database.

**1260 NUMBER OF DB ACCESSES FOR DATA TYPE NWD REPLACES**

This graph reflects the number of database replaces for data type NWD records in the database.

**1270 NUMBER OF DB ACCESSES FOR DATA TYPE NWM ADDS**

This graph reflects the number of database adds for data type NWM records in the database.

**1280 NUMBER OF DB ACCESSES FOR DATA TYPE NWM DELETES**

This graph reflects the number of database deletes for data type NWM records in the database.

**1290 NUMBER OF DB ACCESSES FOR DATA TYPE NWM GETS**

This graph reflects the number of database reads for data type NWM records in the database.

**1300 NUMBER OF DB ACCESSES FOR DATA TYPE NWM REPLACES**

This graph reflects the number of database replaces for data type NWM records in the database.

**1310 NUMBER OF DB ACCESSES FOR DATA TYPE PPD ADDS**

This graph reflects the number of database adds for data type PPD records in the database.

**1320 NUMBER OF DB ACCESSES FOR DATA TYPE PPD DELETES**

This graph reflects the number of database deletes for data type PPD records in the database.

**1330 NUMBER OF DB ACCESSES FOR DATA TYPE PPD GETS**

This graph reflects the number of database reads for data type PPD records in the database.

**1340 NUMBER OF DB ACCESSES FOR DATA TYPE PPD REPLACES**

This graph reflects the number of database replaces for data type PPD records in the database.

**1350 NUMBER OF DB ACCESSES FOR DATA TYPE PPM ADDS**

This graph reflects the number of database adds for data type PPM records in the database.

**1360 NUMBER OF DB ACCESSES FOR DATA TYPE PPM DELETES**

This graph reflects the number of database deletes for data type PPM records in the database.

**1370 NUMBER OF DB ACCESSES FOR DATA TYPE PPM GETS**

This graph reflects the number of database reads for data type PPM records in the database.

**1380 NUMBER OF DB ACCESSES FOR DATA TYPE PPM REPLACES**

This graph reflects the number of database replaces for data type PPM records in the database.

**1390 NUMBER OF DB ACCESSES FOR DATA TYPE SID ADDS**

This graph reflects the number of database adds for data type SID records in the database.

**1400 NUMBER OF DB ACCESSES FOR DATA TYPE SID DELETES**

This graph reflects the number of database deletes for data type SID records in the database.

**1410 NUMBER OF DB ACCESSES FOR DATA TYPE SID GETS**

This graph reflects the number of database reads for data type SID records in the database.

**1420 NUMBER OF DB ACCESSES FOR DATA TYPE SID REPLACES**

This graph reflects the number of database replaces for data type SID records in the database.

**1430 NUMBER OF DB ACCESSES FOR DATA TYPE SIM ADDS**

This graph reflects the number of database adds for data type SIM records in the database.

**1440 NUMBER OF DB ACCESSES FOR DATA TYPE SIM DELETES**

This graph reflects the number of database deletes for data type SIM records in the database.

**1450 NUMBER OF DB ACCESSES FOR DATA TYPE SIM GETS**

This graph reflects the number of database reads for data type SIM records in the database.

**1460 NUMBER OF DB ACCESSES FOR DATA TYPE SIM REPLACES**

This graph reflects the number of database replaces for data type SIM records in the database.

**1470 NUMBER OF DB ACCESSES FOR DATA TYPE SJD ADDS**

This graph reflects the number of database adds for data type SJD records in the database.

**1480 NUMBER OF DB ACCESSES FOR DATA TYPE SJD DELETES**

This graph reflects the number of database deletes for data type SJD records in the database.

**1490 NUMBER OF DB ACCESSES FOR DATA TYPE SJD GETS**

This graph reflects the number of database reads for data type SJD records in the database.

**1500 NUMBER OF DB ACCESSES FOR DATA TYPE SJD REPLACES**

This graph reflects the number of database replaces for data type SJD records in the database.

**1510 NUMBER OF DB ACCESSES FOR DATA TYPE SJM ADDS**

This graph reflects the number of database adds for data type SJM records in the database.

**1520 NUMBER OF DB ACCESSES FOR DATA TYPE SJM DELETES**

This graph reflects the number of database deletes for data type SJM records in the database.

**1530 NUMBER OF DB ACCESSES FOR DATA TYPE SJM GETS**

This graph reflects the number of database reads for data type SJM records in the database.

**1540 NUMBER OF DB ACCESSES FOR DATA TYPE SJM REPLACES**

This graph reflects the number of database replaces for data type SJM records in the database.

**1550 NUMBER OF DB ACCESSES FOR DATA TYPE SOD ADDS**

This graph reflects the number of database adds for data type SOD records in the database.

**1560 NUMBER OF DB ACCESSES FOR DATA TYPE SOD DELETES**

This graph reflects the number of database deletes for data type SOD records in the database.

**1570 NUMBER OF DB ACCESSES FOR DATA TYPE SOD GETS**

This graph reflects the number of database reads for data type SOD records in the database.

**1580 NUMBER OF DB ACCESSES FOR DATA TYPE SOD REPLACES**

This graph reflects the number of database replaces for data type SOD records in the database.

**1590 NUMBER OF DB ACCESSES FOR DATA TYPE SOM ADDS**

This graph reflects the number of database adds for data type SOM records in the database.

**1600 NUMBER OF DB ACCESSES FOR DATA TYPE SOM DELETES**

This graph reflects the number of database deletes for data type SOM records in the database.

**1610 NUMBER OF DB ACCESSES FOR DATA TYPE SOM GETS**

This graph reflects the number of database reads for data type SOM records in the database.

**1620 NUMBER OF DB ACCESSES FOR DATA TYPE SOM REPLACES**

This graph reflects the number of database replaces for data type SOM records in the database.

**1630 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE DSD**

This graph reflects database accesses of all kinds for data type DSD records in the database.

**1640 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE DSM**

This graph reflects database accesses of all kinds for data type DSM records in the database.

**1650 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE I**

This graph reflects database accesses of all kinds for data type I records in the database.

**1660 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE JBD**

This graph reflects database accesses of all kinds for data type JBD records in the database.

**1670 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE JBM**

This graph reflects database accesses of all kinds for data type JBM records in the database.

**1680 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE NWD**

This graph reflects database accesses of all kinds for data type NWD records in the database.

**1690 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE NWM**

This graph reflects database accesses of all kinds for data type NWM records in the database.

**1700 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE PPD**

This graph reflects database accesses of all kinds for data type PPD records in the database.

**1710 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE PPM**

This graph reflects database accesses of all kinds for data type PPM records in the database.

**1720 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE SID**

This graph reflects database accesses of all kinds for data type SID records in the database.

**1730 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE SIM**

This graph reflects database accesses of all kinds for data type SIM records in the database.

**1740 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE SJD**

This graph reflects database accesses of all kinds for data type SJD records in the database.

**1750 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE SJM**

This graph reflects database accesses of all kinds for data type SJM records in the database.

**1760 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE SOD**

This graph reflects database accesses of all kinds for data type SOD records in the database.

**1770 TOTAL NUMBER OF DB ACCESSES FOR DATA TYPE SOM**

This graph reflects database accesses of all kinds for data type SOM records in the database.

**2010 NUMBER OF REQ QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the request queue whether the queue is memory-resident in units of 100.

**2020 NUMBER OF REQ QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the request queue whether the queue is memory-resident in units of 100.

**2030 NUMBER OF REQ QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the request queue whether the queue is memory-resident in units of 100.

**2040 NUMBER OF REQ QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the request queue whether the queue is memory-resident in units of 100.

**2050 NUMBER OF REQ QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the request queue whether the queue is memory-resident in units of 100.

**2060 NUMBER OF RDY QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the ready queue whether the queue is memory-resident in units of 100.

**2070 NUMBER OF RDY QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the ready queue whether the queue is memory-resident in units of 100.

**2080 NUMBER OF RDY QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the ready queue whether the queue is memory-resident in units of 100.

**2090 NUMBER OF RDY QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the ready queue whether the queue is memory-resident in units of 100.

**2100 NUMBER OF RDY QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the ready queue whether the queue is memory-resident in units of 100.

**2110 NUMBER OF ACT QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the active queue whether the queue is memory-resident in units of 100.

**2120 NUMBER OF ACT QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the active queue whether the queue is memory-resident in units of 100.

**2130 NUMBER OF ACT QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the active queue whether the queue is memory-resident in units of 100.

**2140 NUMBER OF ACT QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the active queue whether the queue is memory-resident in units of 100.

**2150 NUMBER OF ACT QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the active queue whether the queue is memory-resident in units of 100.

**2160 NUMBER OF PRE QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the preprocessing queue whether the queue is memory-resident in units of 100.

**2170 NUMBER OF PRE QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the preprocessing queue whether the queue is memory-resident in units of 100.

**2180 NUMBER OF PRE QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the preprocessing queue whether the queue is memory-resident in units of 100.

**2190 NUMBER OF PRE QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the preprocessing queue whether the queue is memory-resident in units of 100.

**2200 NUMBER OF PRE QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the preprocessing queue whether the queue is memory-resident in units of 100.

**2210 NUMBER OF POST QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the postprocessing queue whether the queue is memory-resident in units of 100.

**2220 NUMBER OF POST QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the postprocessing queue whether queue is memory-resident in units of 100.

**2230 NUMBER OF POST QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the postprocessing queue whether the queue is memory-resident in units of 100.

**2240 NUMBER OF POST QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the postprocessing queue whether the queue is memory-resident in units of 100.

**2250 NUMBER OF POST QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the postprocessing queue whether the queue is memory-resident in units of 100.

**2260 NUMBER OF PRRN QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the prior-run queue in units of 100.

**2270 NUMBER OF PRRN QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the prior-run queue in units of 100.

**2280 NUMBER OF PRRN QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the prior-run queue in units of 100.

**2290 NUMBER OF PRRN QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the prior-run queue in units of 100.

**2300 NUMBER OF PRRN QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the prior-run queue in units of 100.

**2310 NUMBER OF TRLR QUEUE ADDS IN UNITS OF 100**

This graph reflects the number of add accesses on the trailer queue in units of 100.

**2320 NUMBER OF TRLR QUEUE DELETES IN UNITS OF 100**

This graph reflects the number of delete accesses on the trailer queue in units of 100.

**2330 NUMBER OF TRLR QUEUE GETS IN UNITS OF 100**

This graph reflects the number of read accesses on the trailer queue in units of 100.

**2340 NUMBER OF TRLR QUEUE REPLACES IN UNITS OF 100**

This graph reflects the number of replace accesses on the trailer queue in units of 100.

**2350 NUMBER OF TRLR QUEUE ACCESSES IN UNITS OF 100**

This graph reflects the total number of accesses on the trailer queue in units of 100.

**2360 PERCENT OF REQ QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of request queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**2370 PERCENT OF RDY QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of ready queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**2380 PERCENT OF ACT QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of active queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**2390 PERCENT OF PRE QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of preprocessing queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**2400 PERCENT OF POST QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of postprocessing queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**2410 PERCENT OF PRRN QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of prior-run queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**2420 PERCENT OF TRLR QUEUE ACCESSES WHICH WERE INPUT ONLY**

This graph reflects the percentage of trailer queue accesses that were reads, calculated as the number of reads divided by the total number of accesses.

**7000 NUMBER OF LOAD SEGMENTS READ**

This graph reflects the number of trailer queue reads that were done for LOAD data.

**7010 NUMBER OF JCL SEGMENTS READ**

This graph reflects the number of trailer queue reads that were done for JCL or PARM data.

**7020 NUMBER OF I/O SEGMENTS READ**

This graph reflects the number of trailer queue reads that were done for I/O segments (including requirement records, #SCC records, and so forth).

**7030 NUMBER OF LOAD SEGMENTS WRITTEN**

This graph reflects the number of trailer queue writes that were done for LOAD data.

**7040 NUMBER OF JCL SEGMENTS WRITTEN**

This graph reflects the number of trailer queue writes that were done for JCL or PARM data.

**7050 NUMBER OF I/O SEGMENTS WRITTEN**

This graph reflects the number of trailer queue writes that were done for I/O segments (including requirement records, #SCC records, and so forth).

# Chapter 3: History Reporting

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This section contains the following topics:

[Overview](#) (see page 61)

[SASSHIS8 History Reporting](#) (see page 62)

[Control Card Edit Report SASSHIS8](#) (see page 135)

[SASSHIS8 History Reports](#) (see page 136)

[SASSXTRK Log Extract Program](#) (see page 258)

## Overview

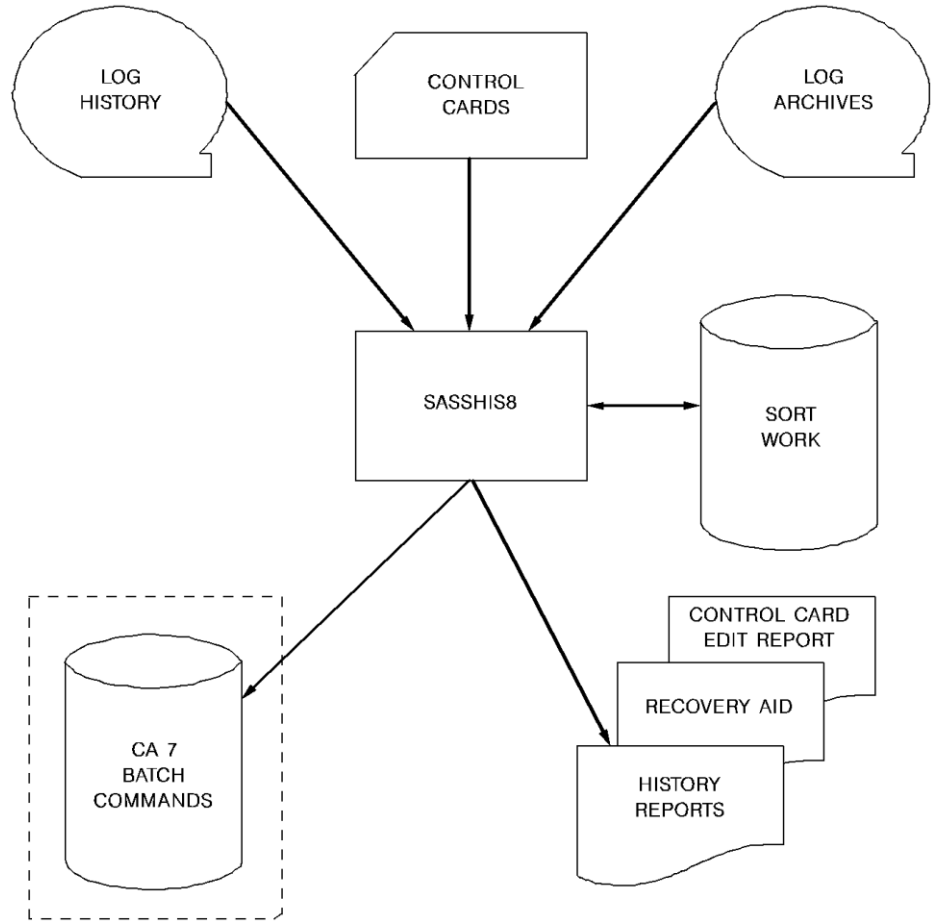
CA WA CA 7 Edition creates log data set records that the history reporting facility uses to create reports on system activity. History reporting consists of three major programs:

- SASSHIS5 History Management
- SASSHIS6 Archives Purge
- SASSHIS8 History Reporting

Programs SASSHIS5 and SASSHIS6 are used to maintain the log history and log archive files that provide the data source for history reporting.

**Note:** For more information about that process, see log and history data set management in the *Systems Programming Guide*.

The following is a flowchart of the history reporting facility provided by the program SASSHIS8:



## SASSHIS8 History Reporting

SASSHIS8 extracts CA WA CA 7 Edition log records from the log history and log archives files based on control statements. The system uses this data to create history and recovery aid reports based on user specifications. SASSHIS8 can also produce a file of batch terminal interface commands. The file is used as a recovery aid in the event of a system failure where one or more of the CA WA CA 7 Edition queues are lost.

**Input:**

- Control statements
- CA WA CA 7 Edition log history file
- CA WA CA 7 Edition log archives file (optional)

**Output:**

- Control Statement Edit report
- History reports
- Recovery aid reports
- Generated batch terminal interface commands

The optional PARM operand of the EXEC statement controls execution conditions and memory requirements as follows:

PARM= ' [{Q|E}] [{MAX|nnnnnn}] [{C|D}] '

**Q|E**

This positional parameter is an alpha character indicating whether to proceed when errors are found. Possible values are O and E.

**O**

Runs only if no errors are found on the control statements. If no value is supplied, O is the default.

**E**

Runs even when errors are found on the control statements.

**MAX|nnnnnn**

This positional parameter requires a six-digit decimal number with leading zeros or the literal MAX to specify the amount of memory available to the sort. MAX is the default.

**C|D**

This positional parameter is an alpha character that indicates whether to use CA-7 or CA Workload Automation SE in the report titles. Possible values are C and D.

**C**

Uses CA-7 in report titles. C is the default.

**D**

Uses CA Workload Automation SE in report titles.

## SASSHIS8 File Descriptions

The following lists the ddnames followed by their descriptions.

**UCC7HIST**

The log history file created by either SASSHIS5 or SASSHIS6 (required).

**UCC7ARCH**

Optional log archive file created by either SASSHIS5 or SASSHIS6.

**SYSIN**

The data that controls production of history reports.

**COMMANDS**

Optional recovery commands produced by the recovery aid for input to the batch terminal interface facility.

**SYSLIST**

CA WA CA 7 Edition history reports.

## SASSHIS8 Input File Release Levels

Different releases of CA WA CA 7 Edition create log records with different formats. To compensate, SASSHIS8 calls the program SASLTRN to translate any r11.x log record to Version 12.0 format as needed. SASSHIS8 then processes it like an Version 12.0 log record. This translation permits flexibility on reading input records.

Log history files and log archive files input to SASSHIS8 are allowed to be a heterogeneous mix of r11.x and Version 12.0 log records. They can also be concatenations of files of different formats. For example: Two UCC7HIST files can be concatenated together – one that is r11.3 and one that is Version 12.0. The reports that are produced are in Version 12.0 format.

## SASSHIS8 Available Outputs

SASSHIS8 produces output as requested by the user. The following table contains the available outputs:

<b>Output Description</b>	<b>Report ID Number</b>	<b>DDNAME</b>
Scheduled Jobs Not Run report	01	SYSLIST
Transaction Detail report	02	SYSLIST
Log Dump report	03	SYSLIST
Scheduled Versus Actual Job report	04	SYSLIST
Scheduled Versus Actual Station report	05	SYSLIST
Job Processing Activity report	06	SYSLIST
Workstation Activity report	07	SYSLIST
Master Station Activity report	08	SYSLIST
Cross Platform Activity report	09	SYSLIST

<b>Output Description</b>	<b>Report ID Number</b>	<b>DDNAME</b>
Cross Platform Job Completion Profile report	10	SYSLIST
Internal Cross Platform Submission Activity report	11	SYSLIST
Database Update Transaction Detail report	12	SYSLIST
Abnormal Termination report	13	SYSLIST
Virtual Resource Management Evaluation and Posting Activity report	16	SYSLIST
Submit Cycle Summary report	20	SYSLIST
Submit Job Detail report	21	SYSLIST
Job Non-Submission Analysis report	22	SYSLIST
Job Submission Activity report	23	SYSLIST
Job Submission Output Activity report	24	SYSLIST
Performance Metrics report	25	SYSLIST
Compare file	25	HR25REPT
Comma-Separated Value file	25	HR25CSV
Security Exception report	30	SYSLIST
Internal Activity Trace report	70	SYSLIST
Last Logged Status of Jobs report	50	SASSRA01
Generated Batch Terminal Interface Commands report	50	SASSRA02
Simulated LQ Display of Jobs report	50	SASSRA03
Recovery Aid Batch Commands file	50	COMMANDS
Request Queue Recovery Aid report	51	SYSLIST
Generated Batch Terminal Interface Commands report (for Request Queue Full Recovery)	51	COMMANDS

## SASSHIS8 Control Statement Descriptions

Control record input requests creation of these outputs. The control records specify the actual sequence and contents of the wanted output. Each output has one control record. Multiple outputs can be requested in a single execution of SASSHIS8, although the limit is 50 outputs in a single run. Multiple requests for the same report ID can be made in a single execution of SASSHIS8 (provided the request IDs are unique).

Using a request ID of NOBANNER causes the generation of no banner pages. Multiple requests that use NOBANNER must have different report IDs.

If any of the control records have an error, SASSHIS8 terminates with a return code 8.

## SASSHIS8 Support for Complex Masking

A number of input parameters that select report data support complex masking using question marks (?) and asterisks (\*). A question mark represents a single substitution character, and an asterisk represents zero or more substitution characters. For example, a mask of \*TS?XP\* matches names such as ATSAXPAB and ABTSZXPA. For more information about parameters supporting complex masking, see [SASSHIS8 Control Record Formats](#) (see page 70).

## SASSHIS8 Date/Time Ranges

Values on a control record produce each report. The values specify, among other things, the boundaries for the time to report. Boundaries are necessary because the history data on the input file can contain much more data than is wanted for the report.

Two techniques are available for specifying range boundaries.

### SASSHIS8 Explicit Ranges

One technique is to provide specific Julian dates and time-of-day for both the beginning and end of a reporting period. These dates are specified as a from and thru set of Julian dates and time-of-day. For example, 09009 0000 and 09009 2400 could be specified to report on January 9, 2009 activity. (See the individual control record descriptions for date and time-of-day default values.)

This technique requires the following:

- Determine and specify the Julian dates wanted.
- Change the control record each time a report is requested for a different period.

Although cumbersome, this technique is helpful in many situations.

## SASSHIS8 Range Literals

The second technique lets you prepare the control records, for most reporting requirements, with a single literal. This technique causes the program to determine the date and time fields dynamically at execution time. This technique also eliminates the need for changing the control record for each run.

Whenever a literal is used, it is entered in the From Date field. *No date/time* values are entered in the From Time and Thru Date and Thru Time fields. The program determines these dates based on the literal specified and the *current system date*.

Two types of literal groups are available. One group is used to request to-date reports such as week-to-date, month-to-date, and so forth. The other group is used to request reports for reporting periods that have already ended.

Literals for to-date reporting and their meanings are as follows:

### **TODAY**

Indicates all data with the current date.

### **TWEEK**

Indicates all data produced this calendar week, last Sunday's date through today.

### **TMNTH**

Indicates all data produced this calendar month, beginning with the date of the first day of the current month through today.

### **TQRTR**

Indicates all data produced this quarter, beginning with the date of the first day of the month two months ago, plus the current month through today. (*Not* calendar quarter.)

### **nnHRS**

Indicates *nn* hours. (This literal is useful for the Recovery aid reports.)

### **nnDAY**

Indicates *nn* days through current date/time.

Literals for prior reporting periods (whose end times have already passed) and their meanings are as follows:

### **-nDAY**

Indicates the previous *n* 24-hour periods. This literal generates a control statement with a beginning time of 0000 and an ending time of 2400, encompassing the number of days specified by *n* (where ending date/time is yesterday at midnight).

### **LWEEK**

Indicates the previous Sunday through Saturday.

**LMNTH**

Indicates the previous calendar month.

**LQRTR**

Indicates the previous three consecutive months.

## SASSHIS8 Sample Ranges

Any of the following could be used on Sunday, January 3, 2009 to define the first week of the month.

- 09001 09007 (uses defaults of 0000 and 2400 for time-of-day values)
- 090010000090072400
- 090010000090080000
- LWEEK

The same could be accomplished on Saturday, January 2, after all other processing was completed, with TWEEK (by itself, instead of LWEEK) or the other examples preceding.

If the definition of a reporting day was 8:00 a.m. to 8:00 a.m., the first situation would be specified as either of the following:

- 090010800090080800
- LWEEK0800

If the reporting job was to run on Saturday, January 2, the literal in this second example would also have to be TWEEK instead of LWEEK.

## Reporting Periods, Days, or Hours

The simple use for *nnDAY* is to obtain a report for *nn* days up to today. Similarly, the simple use for *nnHRS* is for getting reports for the preceding *nn* hours.

This example (with no from or to date and time) generates a report covering 48 hours to the present time.

```
48HRS
```

But from and to dates and time can be used to get reports covering *nn* hour or day periods ending in the past rather than today. This example generates a report covering two days beginning the first day of 2009.

```
02DAY09001
```

If *to* date and time are also given, the period reported is backed off from the *to* date and time. Basically, the *from* date and time are ignored if necessary to conform to the period designated. Thus, the following generates a 24 hour report from midnight, July 21, 2009 to midnight the next day. The from date and time are ignored.

```
24HRS090010001972022400
```

## SASSHIS8 Scheduling Considerations

Because literals for specifying reporting periods are relative to the current system date, care must be taken when scheduling report runs.

Assume that you want to produce a weekly report every week using a control record with the *LWEEK* literal. Schedule the job to run after midnight on Saturday to help ensure that the correct period is reported. Similarly, for monthly reports with the *LMNTH* literal, run the job on the first day of the following month (or anytime during that month).

Assume that you want to produce a weekly report after all work is completed, but before midnight Saturday. Use the *TWEEK* literal. For this same situation for a monthly report, the literal *TMNTH* would be used.

The same beginning (or From) date considerations apply also to daily and quarterly reports.

## Reporting Quarter Definition

The definition of a quarter is important. With these facilities, LQRTR and TQRTR, is *any* three consecutive months. If reports must correspond to any particular range of three months, run the reporting job in either of the following:

- In the next month following completion of those months whenever LQRTR is used.
- Before the end of the third month whenever TQRTR is used.

You can always provide specific values for From Date, From Time, Thru Date, and Thru Time to define the reporting boundaries that you want.

## Reporting Day Definition

The definition of a day is also important. A day, with all available literal options, is a 24-hour period from midnight-to-midnight. Weeks, months, and quarters are also based on midnight of the days included.

You can report on a different definition of a day, like 8:00 a.m. to 8:00 a.m. Use the From Time-of-day field to specify the appropriate beginning of a day. For example, LWEEK0800 indicates to report that the previous week, from Sunday at 8:00 a.m. through the following Sunday at 8:00 a.m. The implied value of the day is still 24 hours in length no matter when it begins. Therefore, *no Thru* Time-of-day is permitted in the control record when any of the literals are specified in the From Date field. This restriction is not true for explicit ranges, only for the literals.

## SASSHIS8 Control Record Formats

The following are the formats for each of the control records in report ID number sequence.

### Report 01 - Scheduled Jobs Not Run

The following are the formats for each of the control records in Report 01 - Scheduled Jobs Not Run:

#### Report ID

Identifies requested report as Scheduled Jobs Not Run.

- Positions: 01-02
- Value: 01
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Position: 29
- Reserved for CA Technologies use.

**Main ID**

Specifies the system ID as defined to CA WA CA 7 Edition (a value of 1 would imply SY1).

- Position: 30
- Value: numeric
- Required: no
- Default: all systems

**Sort**

Contains three digits whose order controls the sequence of the report. Any combination of the following digits can be specified:

**1**

Specifies date/time sequence.

**2**

Specifies job name sequence.

**3**

Specifies system ID sequence.

- Positions: 31-33
- Value: numeric
- Required: no
- Default: 231

**User Comments**

Supplies free space for user comments.

- Positions: 34-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 02 - Transaction Detail

The following are the formats for each of the control records in Report 02 - Transaction Detail:

### Report ID

Identifies the requested report as Transaction Detail.

- Positions: 01-02
- Value: 02
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day for From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

#### **Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

#### **Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

#### **Hide Formatted Panels**

Any nonblank in this column causes the report not to show formatted panel images.

- Position: 29
- Value: blank or any character

#### **Panel Paging**

Specifies where formatted panel images are to appear on the page.

- Position: 30
- Value: Is one of the following:
  - O - Midpanel page overflow is acceptable; this value is the default.
  - S - Put entire panel on the same page.
  - T - Start each panel at the top of a new page.

#### **Blank Lines**

Specifies whether blank lines on formatted panels are wanted.

- Position: 31
- Value: Is one of the following:
  - Y - Blank lines are printed; this value is the default.
  - N - Blank lines not printed.

**Terminal ID**

Specifies the terminal from which the transactions in this report originated. This field supports masking.

- Positions: 32-38
- Value: alphanumeric
- Required: no
- Default: all terminals on CA WA CA 7 Edition

**Sort**

Specifies the order of the digits (left-justified) that controls the sequence of this report. Any combination of the following digits can be specified:

**1**

Specifies date/time sequence.

**2**

Specifies operator ID sequence.

**3**

Specifies terminal ID sequence.

- Positions: 39-41
- Value: numeric
- Required: no
- Default: 31

**Operator ID**

Specifies the operator whose transactions are selected for this report. The Operator ID can be used in combination with Terminal ID. Enter the value of \*ALL\* to select and list all operator names. Use the value of \*NA\* or blanks to select and not list all operator names. If LOGOPID=N is specified in the initialization file, no sorting or selection by Operator ID is possible and \*NA\* is indicated in reporting. This field supports masking.

- Position: 42-49
- Value: alphanumeric
- Required: no
- Default: blank -- all operators are selected, but \*NA\* is listed on the report as the operator ID

#### **User Comments**

Supplies free space for user comments.

- Positions: 50-80
- Value: alphanumeric
- Required: no
- Default: none

## **Report 03 - Log Dump**

The following are the formats for each of the control records in Report 03 - Log Dump:

#### **Report ID**

Identifies the requested report as Log Dump.

- Positions: 01-02
- Value: 03
- Required: yes
- Default: none

#### **Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

#### **From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day for From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Record Type**

- Positions: 29-30
- Value: hexadecimal representation of record type
- Required: no
- Default: all log records on CA WA CA 7 Edition

**blanks**

All Log Records

**04**

Step Termination

**05**

Job Termination

<b>0E</b>	Input Data Set (EOF)
<b>0F</b>	Output Data Set (EOF)
<b>14</b>	Job Start
<b>1A</b>	Job Purge
<b>43</b>	Master Station Messages
<b>64</b>	CA WA CA 7 Edition Start
<b>65</b>	CA WA CA 7 Edition End
<b>67</b>	Schedule Scan
<b>68</b>	JCL Creation
<b>69</b>	Queue Movement
<b>72</b>	Input Transaction
<b>73</b>	Close Pass/End of Output (EM Call)
<b>75</b>	POST Transactions
<b>76</b>	JCL Error from IEFUJV
<b>81</b>	/LOG Command

<b>82</b>	Scheduled Jobs Not Run
<b>83</b>	VRM Post
<b>84</b>	VRM Error
<b>85</b>	VRM Eval
<b>86</b>	XNODE Command Activity
<b>87</b>	XPJOB Trace Activity
<b>8A</b>	ARF Activity
<b>90</b>	Job Data for Load
<b>91</b>	Step Data for Load
<b>92</b>	DD Data for Load
<b>93</b>	Requirement Data for Load
<b>94</b>	DSRECD Data for Load
<b>98</b>	SVC Close (Similar to 05 for a job)
<b>99</b>	SVC Post (Similar to 0F for a job)
<b>A1</b>	Statistics Interval

**A2**

Control Block Status

**A3**

SASSXX10 Modified Job Data

**A4**

Time Capture

**AF**

ARF Statistics

**C1**

Security Exception

**C9**

Autorequeue IPL

**D1**

Jobflow Monitor

**E7**

XCF Sync

**Sort**

Specifies the order of the digits (left-justified) that controls the sequence of this report. Any combination of two of the following three digits can be specified:

**1**

Specifies the date/time log record was written order.

**2**

Specifies record type order.

**3**

Specifies SCT address (terminal) order.

- Positions: 31-32
- Value: numeric
- Required: no
- Default: 1

**User Comments**

Supplies free space for user comments.

- Positions: 33-80
- Value: alphanumeric
- Required: no
- Default: none

**Report 04 - Scheduled Versus Actual Job**

The following are the formats for each of the control records in Report 04 - Scheduled Versus Actual Job:

**Report ID**

Identifies the requested report as Scheduled Versus Actual Job.

- Positions: 01-02
- Value: 04
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day for From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Job Name**

Specifies the name of the job to report. This field supports masking.

- Positions: 29-36
- Value: alphanumeric
- Required: no
- Default: all job names in CA WA CA 7 Edition

**CA WA CA 7 Edition Job Number**

Indicates the CA WA CA 7 Edition job number of the job to report.

- Positions: 37-40
- Value: numeric
- Required: no
- Default: all CA WA CA 7 Edition numbers

**Severity Scale ID**

Specifies the name of the module providing a scale to graph the report. The module must be link edited as SASSDSxx, where xx is the Severity Scale ID. Module SASSDS is the CA WA CA 7 Edition default module.

- Positions: 41-42
- Value: alphanumeric (in xx format - CR must *not* be used)
- Required: no
- Default: SASSDS

**Sort**

Controls the sequence of the report. Any combination (left-justified) of the following can be used:

**1**

Specifies the date/time log record was written order.

**2**

Specifies job name order.

**3**

Specifies CA WA CA 7 Edition job number order.

- Positions: 43-46
- Value: numeric
- Required: no
- Default: 231

**SUM**

Indicates only the last page of the report is created, showing percentage totals by severity level.

- Positions: 47-49
- Value: SUM
- Required: no
- Default: none

**Time Zone**

Specifies which time zone to use when date and time from extracted records are displayed.

**E**

Specifies to use the date and time of the execution time zone.

**7**

Specifies to use the date and time of the CA WA CA 7 Edition time zone.

- Position: 50
- Value: E, 7
- Required: no
- Default: E

**User Comments**

Supplies free space for user comments.

- Positions: 51-80
- Value: alphanumeric
- Required: no
- Default: none

**More information:**

[Differential Severity Scale](#) (see page 133)

## Report 05 - Scheduled Versus Actual Station

The following are the formats for each of the control records in Report 05 - Scheduled Versus Actual Station:

**Report ID**

Identifies the requested report as Scheduled Versus Actual Station.

- Positions: 01-02
- Value: 05
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Workstation Name**

Specifies the workstation to report. This field supports masking.

- Positions: 29-36
- Value: alphanumeric
- Required: no
- Default: all workstations

**Job Name**

Specifies the job to report. This field supports masking.

- Positions: 37-44
- Value: alphanumeric
- Required: no
- Default: all jobs

**Network Name**

Specifies the network to report. This field supports masking.

- Positions: 45-52
- Value: alphanumeric
- Required: no
- Default: all networks

**Sub-ID Name**

Specifies the sub-ID to report. This field supports masking.

- Positions: 53-60
- Value: alphanumeric
- Required: no
- Default: all sub-IDs

**CA WA CA 7 Edition Job Number**

Indicates the CA WA CA 7 Edition job number to report.

- Positions: 61-64
- Value: numeric
- Required: no
- Default: all CA WA CA 7 Edition numbers

**Severity Scale ID**

Specifies the name of the module providing a scale to graph the report. The module must be link edited as SASSDSxx, where xx is the Severity Scale ID. Module SASSDS is the CA WA CA 7 Edition default module.

- Positions: 65-66
- Value: alphanumeric (in xx format - CR must *not* be used)
- Required: no
- Default: SASSDS

**Sort**

Controls the sequence of the report. Any combination (left-justified) of five of the following can be specified:

**1**

Specifies date/time the log record was written sequence.

**2**

Specifies station name sequence.

**3**

Specifies job name sequence.

**4**

Specifies network name sequence.

**5**

Specifies sub-ID name sequence.

**6**

Specifies CA WA CA 7 Edition job number sequence.

- Positions: 67-71
- Value: numeric
- Required: no
- Default: 31

### **SUM**

Indicates only the last page of the report is created, showing percentage totals by severity level.

- Positions: 72-74
- Value: SUM
- Required: no
- Default: none

### **User Comments**

Supplies free space for user comments.

- Positions: 75-80
- Value: alphanumeric
- Required: no
- Default: none

### **More information:**

[Differential Severity Scale](#) (see page 133)

## **Report 06 - Job Processing Activity**

The following are the formats for each of the control records in Report 06 - Job Processing Activity:

### **Report ID**

Identifies the requested report as Job Processing Activity.

- Positions: 01-02
- Value: 06
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

### Thru Time

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

### Job Name

Specifies the job to report. This field supports masking.

- Positions: 29-36
- Value: alphanumeric
- Required: no
- Default: all jobs

### Time Zone

Specifies which time zone to use when date and time from extracted records are displayed.

**E**

Specifies to use the date and time of the execution time zone.

**7**

Specifies to use the date and time of the CA WA CA 7 Edition time zone.

- Position: 37
- Value: E, 7
- Required: no
- Default: E

### Reserved

- Position: 38
- Reserved for CA Technologies use.

### Sort

Specifies the order of the digits (left-justified) that controls the sequence of the report. Use any combination of the following values:

**1**

Specifies date/time the log record was written sequence.

**2**

Specifies job name sequence.

**3**

Specifies system ID sequence.

- Positions: 39-41
- Value: numeric
- Required: no
- Default: 123

**Index**

Produces only the first part of the report, showing a one line index entry per job.

- Positions: 42-46
- Value: INDEX
- Required: no
- Default: none

**CPU ID**

Indicates the system to report. The system ID is the SMFID in the SMF record. For XPJOBS, this value is always 7XPJ. For agent jobs, this value is always AGJ.

- Positions: 47-50
- Value: alphanumeric
- Required: no
- Default: all system IDs

**User Comments**

Supplies free space for user comments.

- Positions: 51-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 07 - Workstation Activity

The following are the formats for each of the control records in Report 07 - Workstation Activity:

### Report ID

Identifies the requested report as Workstation Activity.

- Positions: 01-02
- Value: 07
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day on From Date of reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Workstation Name**

Specifies the workstation to report. This field supports masking.

- Positions: 29-36
- Value: alphanumeric
- Required: no
- Default: all workstations

**Network Name**

Specifies the network to report. This field supports masking.

- Positions: 37-44
- Value: alphanumeric
- Required: no
- Default: all networks

**Job Name**

Specifies the job to report. This field supports masking.

- Positions: 45-52
- Value: alphanumeric
- Required: no
- Default: all jobs

**Sort**

Specifies the order of the digits (left-justified) that controls the sequence of the report. Any combination of the following can be used.

**1**

Specifies date/time the log record was written sequence.

**2**

Specifies station name sequence.

**3**

Specifies job name sequence.

**4**

Specifies network name sequence.

- Positions: 53-56
- Value: numeric
- Required: no
- Default: 21

**User Comments**

Supplies free space for user comments.

- Positions: 57-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 08 - Master Station Activity

The following are the formats for each of the control records in Report 08 - Master Station Activity:

**Report ID**

Identifies the requested report as Master Station Activity.

- Positions: 01-02
- Value: 08
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day for From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Positions: 29-31
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 32-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 09 - Cross Platform Activity

The following are the formats for each of the control records in Report 09 - Cross Platform Activity:

**Report ID**

Identifies requested report as Cross Platform Activity report.

- Positions: 01-02
- Value: 09
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Job name**

Specifies the job to report. This field supports masking.

- Positions: 29-36
- Value: alphanumeric
- Required: no
- Default: all jobs

**Sort parameter**

Contains three digits whose order controls the sequence of the report. Any combination of the following digits can be specified:

**1**

Specifies date/time the log record was written sequence.

**2**

Specifies job name sequence.

**3**

Specifies node name sequence.

- Positions: 37-39
- Value: numeric
- Required: no
- Default: 123

**Cross Platform job type**

Specifies the Cross Platform job type to report. If empty, all Cross Platform job types are reported.

- Positions: 40-43
- Value: 7XPJ, 7UNI, or AGJ
- Required: no
- Default: all Cross Platform job types

**Node/Agent name**

Specifies the node or agent to report. This field supports masking.

- Positions: 44-59
- Value: alphanumeric
- Required: no
- Default: all nodes and agents

**Time Zone**

Specifies which time zone to use when date and time from extracted records are displayed.

**E**

Specifies to use the date and time of the execution time zone.

**7**

Specifies to use the date and time of the CA WA CA 7 Edition time zone.

- Position: 60
- Value: E, 7
- Required: no
- Default: E

**Reserved**

- Positions: 61-63
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 64-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 10 - Cross Platform Job Completion Profile

The following are the formats for each of the control records in Report 10 - Cross Platform Job Completion Profile:

**Report ID**

Identifies the requested report as Cross Platform Job Completion Profile report.

- Position: 01-02
- Value: 10
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with report ID field, must be unique, ten-character combination within a given run of SASSHIS8. This value is also used within the report type to separate multiple requests for the same report ID.

- Position: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Position: 29
- Reserved for CA Technologies use.

**Report Type**

Indicates type of the requested output.

- Position: 30
- Values: 1, 2, H, D
- Required: no
- Default: D

**1**

Indicates hourly counts for all nodes matching mask

**2**

Indicates daily counts for all nodes matching mask

**H**

Indicates hourly counts for each node matching mask.

**D**

Indicates daily counts for each node matching mask.

**Reserved**

- Position: 31
- Reserved for CA Technologies use.

**Node/Agent name**

Specifies the name of the node or agent to report. This field supports masking.

- Positions: 32-47
- Value: any character
- Required: no
- Default: all nodes and agents

**Reserved**

- Positions: 48-80
- Reserved for CA Technologies use.

## Report 11 - Internal Cross Platform Submission Activity

The following are the formats for each of the control records in Report 11 - Internal Cross Platform Submission Activity:

### Report ID

Identifies the requested report as XPJOB Submission Activity report.

- Position: 01-02
- Value: 11
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with report ID field, must be unique, ten-character combination within a given run of SASSHIS8. This value is also used within the report type to separate multiple requests for the same report ID.

- Position: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Position: 29
- Reserved for CA Technologies use.

**User ID Flag**

Indicates whether to display the user ID.

- Position: 30
- Values: Y displays user ID, and any other character does not display user ID
- Required: no
- Default: do not display

**PARMnn ID Flag**

Indicates whether to print PARMnn data from AJB.

- Position: 31
- Values: Y, N
- Required: no
- Default: display data

**Y**

Displays PARMnn data.

**N**

Do not display PARMnn data.

**Preprocess return code flag**

Specifies to display jobs with chosen preprocess return code.

- Position: 32
- Values: A, N, Z
- Required: no
- Default: all return codes

**A**

Displays all return codes.

**N**

Displays nonzero return codes only.

**Z**

Displays zero return codes only.

**Process return code flag**

Specifies to display jobs with chosen process return code.

- Position: 33
- Values: A, N, Z
- Required: no
- Default: all return codes

**A**

Displays all return codes.

**N**

Displays nonzero return codes only.

**Z**

Displays zero return codes only.

**Sort**

Specifies the order of the digits (left-justified) that controls the sequence of this report. Use any combination of the following digits:

**1**

Specifies date/time sequence.

**2**

Specifies job name sequence.

**3**

Specifies node name sequence.

- Positions: 34-36
- Value: numeric
- Required: no
- Default: 123

**Job name**

Specifies the name of the job to report. This field supports masking.

- Position: 37-44
- Value: alphanumeric
- Required: no
- Default: all jobs

**Node/Agent name**

Specifies the name of the node or agent to report. This field supports masking.

- Position: 45-60
- Value: any character
- Required: no
- Default: all nodes and agents

**Reserved**

- Positions: 61-63
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 64-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 12 - Database Update Transaction Detail

The Database Update Transaction Detail report uses the same control card input as report 02, the Transaction Detail report. The only exception is the Report ID:

### Report ID

Identifies the requested report as Database Update Transaction Detail.

- Positions: 01-02
- Value: 12
- Required: yes
- Default: none

The rest of the control record has the same format as the Transaction Detail report.

**Note:** If you want to run Report 02 and Report 12 in the same job run, specify unique request IDs for each control card. Failure to use unique request IDs generates the following error message:

HIS8-04 DUPLICATED CONTROL CARD

## Report 13 - Abnormal Job Termination

The following are the formats for each of the control records in Report 13 - Abnormal Job Termination:

### Report ID

Identifies requested report as an Abnormal Job Termination report.

- Positions: 01-02
- Value: 13
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Job name**

Specifies the job to report. This field supports masking.

- Positions: 29-36
- Value: alphanumeric
- Required: no
- Default: all jobs

### **Completion Code**

Specifies the abnormal completion codes to report. This field supports masking.

- Positions: 37-44
- Value: any character
- Required: no
- Default: all completion codes

### **Time Zone**

Specifies which time zone to use when date and time from extracted records are displayed.

**E**

Specifies to use the date and time of the execution time zone.

**7**

Specifies to use the date and time of the CA WA CA 7 Edition time zone.

- Position: 45
- Value: E, 7
- Required: no
- Default: E

### **Reserved**

- Positions: 46-50
- Reserved for CA Technologies use.

### **User Comments**

Supplies free space for user comments.

- Positions: 51-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 16 - Virtual Resource Management Evaluation and Posting Activity

The following are the formats for each of the control records in Report 16 - Virtual Resource Management Evaluation and Posting Activity:

### Report ID

Identifies the requested report as Virtual Resource Management Evaluation and Posting Activity.

- Position: 01-02
- Value: 16
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with report ID field, must be unique, ten-character combination within a given run of SASSHIS8. This value is also used within the Report type to separate multiple requests for the same report ID.

- Position: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Resource Name**

Indicates type of the requested output. This field supports masking.

- Position: 29-68
- Required: no
- Default: all resource names

## Report 20 - Submit Cycle Summary

The following are the formats for each of the control records in Report 20 - Submit Cycle Summary:

**Report ID**

Identifies the requested report as Submit Cycle Summary.

- Positions: 01-02
- Value: 20
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

#### **Threshold**

Specifies the minimum number of jobs a cycle must contain for the cycle to appear on the report. For example, if Threshold is "010", cycles containing less than 10 jobs are not reported.

- Positions: 29-31
- Value: numeric
- Required: no
- Default: reports all cycles

#### **Reserved**

- Positions: 32-40
- Reserved for CA Technologies use.

#### **User Comments**

Supplies free space for user comments.

- Positions: 41-80
- Value: alphanumeric
- Required: no
- Default: none

## **Report 21 - Submit Job Detail**

The following are the formats for each of the control records in Report 21 - Submit Job Detail:

#### **Report ID**

Identifies the requested report as Submit Job Detail.

- Positions: 01-02
- Value: 21
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

### **Threshold**

Specifies a time, in hundredths of a second. If the submit duration for a job is equal to or greater than the threshold, the job is flagged with a ">" in column 1 of the report.

- Positions: 29-31
- Value: numeric
- Required: yes, if position 32 contains an "E", otherwise no
- Default: no jobs are flagged

### **Exceptions**

An "E" in this field indicates that only jobs that meet or exceed the preceding Threshold are to report. In this case, subtotals and averages for each cycle are not reported.

- Position: 32
- Value: E
- Required: no
- Default: all jobs are reported, with subtotals and averages for each cycle

### **Reserved**

- Positions: 33-40
- Reserved for CA Technologies use.

### **User Comments**

Supplies free space for user comments.

- Positions: 41-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 22 - Job Non-Submission Analysis

The following are the formats for each of the control records in Report 22 - Job Non-Submission Analysis:

### Report ID

Identifies the requested report as Job Non-Submission Analysis.

- Positions: 01-02
- Value: 22
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Job Name**

Specifies the job to report. This field supports masking.

- Positions: 29-36
- Value: character
- Required: no
- Default: reports all jobs

**Exceptions**

An "E" in this field indicates that only jobs that were passed over for submission by IAS, VRM, or WLB are reported.

- Position: 37
- Value: E
- Required: no
- Default: all jobs that meet the reporting criteria are reported

**Reserved**

- Positions: 38-40
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 41-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 23 - Job Submission Activity

The following are the formats for each of the control records in Report 23 - Job Submission Activity:

**Report ID**

Identifies the requested report as Job Submission Activity.

- Positions: 01-02
- Value: 23
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Positions: 29-40
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 41-80
- Value: alphanumeric
- Required: no
- Default: none

**Report 24 - Job Submission Output Activity**

The following are the formats for each of the control records in Report 24 - Job Submission Output Activity:

**Report ID**

Identifies the requested report as Job Submission Output Activity.

- Positions: 01-02
- Value: 24
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day for the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Positions: 29-40
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 41-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 25 - Performance Metrics Report

The following are the formats for each of the control records in Report 25 – Metrics Report:

### Report ID

Identifies the requested report as the Performance Metrics report.

- Position: 01-02
- Value: 25
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Extra burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the report ID field, must be unique, ten-character combination within a given run of SASSHIS8. This value is also used within the report type to separate multiple requests for the same report ID.

- Position: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Note:** The report interval (From Date/Time - Thru Date/Time) cannot exceed 31 days.

**Reserved**

- Position: 29
- Reserved for CA Technologies use.

**Report Type**

Indicates the type of the requested output.

- Position: 30
- Values: A, D, E, J, P, S, V, Z
- Required: no
- Default: A

**A**

Indicates all Metrics reports.

**D**

Indicates the CA Datacom/AD Metrics report.

**E**

Indicates the Enhanced Submission Selection report.

**J**

Indicates the JES Metrics report.

**P**

Indicates the zIIP Processing Metrics report.

**S**

Indicates the SCT Metrics report.

**V**

Indicates the Waiting on Resources Metrics report.

**Z**

Indicates the z/OS Metrics report.

**Create Compare File**

Indicates whether to create a file that can be used as input to the Metrics Compare utility.

- Position: 31
- Values: Y, N
- Required: no
- Default: Y

**Y**

Creates the compare file.

**N**

Does not create the compare file.

**Create CSV File**

Indicates whether to create a comma-separated value (CSV) file.

**Note:** You can only create this file when Report Type is set or defaults to A.

- Position: 32
- Values: H, N, Y
- Required: no
- Default: If Report Type = 'A', then default is H, otherwise N.

**H**

Creates the CSV file with a header record and a data record.

**N**

Does not create the CSV file.

**Y**

Creates the CSV file with only a data record.

**Reserved**

- Positions: 33-80
- Reserved for CA Technologies use.

## Report 30 - Security Exceptions

The following are the formats for each of the control records in Report 30 - Security Exceptions:

### Report ID

Identifies the requested report as Security Exceptions.

- Positions: 01-02
- Value: 30
- Required: yes
- Default: none

### Request ID

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

### From Date

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

### From Time

Indicates the starting time-of-day for From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Position: 29
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 30-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 50 - Recovery Aid Output

The recovery aid output consists of the following four separate outputs:

**SASSRA01**

Last Logged Status of Jobs Report

**SASSRA02**

Generated Batch Terminal Interface Commands Report

**SASSRA03**

Simulated LQ Display of Jobs Report

**COMMANDS**

Recovery Aid Batch Commands

Information about generating these outputs are discussed in the "Backup and Recovery Considerations" chapter of the *Systems Programming Guide* under the topic "Recovery Aid."

### **Report ID**

Identifies the requested output as recovery aid reports.

- Positions: 01-02
- Value: 50
- Required: yes
- Default: none

### **Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: none

### **From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (*yyddd*) or reserved literal
- Required: yes
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day for From Date of the reporting period. Never have the beginning date/time older than the last COLD or FORM start. Older dates cause the unnecessary selection of some data and the discarding of that data in the reporting phase. If the selected log data includes a startup record for FORM or COLD start, the following message appears on the report: LAST COLD OR FORM START PERFORMED ON *mm-dd-yy AT hh:mm*.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on the Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Command Type**

The entry of DEMAND or DEMANDH causes the generation of commands into the COMMANDS data set (for use with the Batch Terminal Interface facility) and the SASSRA02 report. If this field is blank, the commands are not generated and the SASSRA02 report is *not* produced.

- Positions: 29-35
- Value: alpha (DEMAND or DEMANDH)
- Required: no
- Default: none

### **Time Zone**

Specifies which time zone to use when date and time from extracted records are displayed.

#### **E**

Specifies to use the date and time of the execution time zone.

#### **7**

Specifies to use the date and time of the CA WA CA 7 Edition time zone.

- Position: 36
- Value: E, 7
- Required: no
- Default: E

### **User Comments**

Supplies free space for user comments.

- Positions: 37-80
- Value: alphanumeric
- Required: no
- Default: none

## **Report 51 - Request Queue Recovery Aid Commands**

The Request Queue Recovery Aid Tool output consists of two output files:

### **SYSLIST**

Lists job requests that are not processed because CA WA CA 7 Edition request queue is full.

### **COMMANDS**

Lists BTI commands that can reissue job requests when the request queue problem is resolved.

The SYSLIST file supplies a printout of commands for jobs that were requested as a result one of the following:

- DEMAND command
- LOAD command
- RUN command
- Job trigger
- Data set trigger
- Repeating job

The COMMANDS file does not contain repeating job information because these jobs require thorough research before requesting the jobs again. Jobs requested as a result of a schedule scan are not included in either file.

**Report ID**

Identifies the requested report as Request Queue Recovery Aid Tool.

- Positions: 01-02
- Value: 51
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with report ID field, must be unique, ten-character combination within a given run of SASSHIS8. This literal also separates multiple requests within the Report type for the same report ID.

- Position: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day on From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day on Thru Date of the reporting period.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Position: 29
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 30-80
- Value: alphanumeric
- Required: no
- Default: none

## Report 70 - Internal Activity Trace

The following are the formats for each of the control records in Report 70 - Internal Activity Trace:

**Report ID**

Identifies the requested report as Internal Activity Trace.

- Positions: 01-02
- Value: 70
- Required: yes
- Default: none

**Request ID**

Identifies a literal that is printed on burst pages in front of the report. Additional burst pages with the literal END PAGE are printed at the back of the report. This code, in combination with the Report ID field, must be a unique, ten-character combination within a given run of SASSHIS8. This value is also used within the sort key to separate multiple requests for the same report ID.

- Positions: 03-10
- Value: alphanumeric
- Required: no
- Default: blanks

**From Date**

Indicates either the start of the reporting period for the report or one of the reserved literals for defining the reporting period boundaries.

- Positions: 11-15
- Value: numeric (in *yyddd* format) or reserved literal
- Required: no
- Default: earliest date on files

**From Time**

Indicates the starting time-of-day for From Date of the reporting period.

- Positions: 16-19
- Value: numeric (*hhmm*)
- Required: no
- Default: earliest time-of-day on the preceding From Date

**Thru Date**

Indicates the end of the reporting period for the report. Not used if From Date contains one of the reserved literals.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no
- Default: latest date on files

**Thru Time**

Indicates the ending time-of-day for Thru Date of the reporting period. Not used if From Date contains one of the reserved literals.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: latest time-of-day on Thru Date

**Reserved**

- Positions: 29-31
- Reserved for CA Technologies use.

**User Comments**

Supplies free space for user comments.

- Positions: 32-80
- Value: alphanumeric
- Required: no
- Default: none

## Differential Severity Scale

The Differential Severity Scale provides a graphic breakdown, on reports SASSHR04 and SASSHR05, of the difference between scheduled and actual start and completion times for jobs and workstations. The scale consists of 80-character statements assembled and link edited as SASSDSxx, where xx is a unique, 2-character ID other than CR. The scale has 13 levels that rate actual compared to scheduled times from the earliest to the latest.

Following is the Differential Severity Scale in the CA WA CA 7 Edition default module, SASSDS. See member AL2UM31 in CAL2OPTN for a sample SMP/E update of SASSDS.

SASSDS	CSECT		1
	DC	C' ' (severity scale ID)	2
	DC	C' -99998'	3
	DC	C' -00500'	4
	DC	C' -00100'	5
	DC	C' -00030'	6
	DC	C' -00010'	7
	DC	C' -00002'	8
	DC	C' +00002'	9
	DC	C' +00005'	10
	DC	C' +00010'	11
	DC	C' +00030'	12
	DC	C' +00100'	13
	DC	C' +00500'	14
	DC	C' +99999'	15
	END		16

Statements 3 through 15 contain the scale. The character definition represents the number of hours and minutes early or late, in the following format:

C' *shhmm*'

**s**

Indicates the sign, either early (-) or late (+).

**hhh**

Indicates the number of hours either early or late.

**mm**

Indicates the number of minutes either early or late.

Values for all levels are not required. Zeros in the *s*, *hhh*, and *mm* fields are required to omit a level.

## Sample History Reporting JCL

The following is a sample of the JCL that produces history reports. Also see cataloged procedure CA7LOG and job N530 from the installation process.

```
//jobname JOB local jobcard statement *
//REPORTS EXEC PGM=SASSHIS8 *
//STEPLIB DD DISP=SHR,DSN=user-defined-CA-7-loadlib *
//COMMANDS DD DISP=(,CATLG,DELETE),DSN=user.recovery.commands, *
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=nnnn), *
//          UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE) *
//HR25REPT DD DISP=(,CATLG,DELETE),DSN=metrics.report.data, *
//          DCB=(RECFM=FB,LRECL=82,BLKSIZE=nnnn), *
//          UNIT=SYSDA,SPACE=(TRK,(1,1),RLSE) *
//HR25CSV DD DISP=(,CATLG,DELETE),DSN=metrics.csv.data, *
//          DCB=(RECFM=VB,LRECL=3000,BLKSIZE=nnnn), *
//          UNIT=SYSDA,SPACE=(TRK,(1,1),RLSE) *
//SASSRA01 DD SYSOUT=a *
//SASSRA02 DD SYSOUT=a *
//SASSRA03 DD SYSOUT=a *
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
//SORTWK05 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
//SORTWK06 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
//SYSIN DD *
control records go here <====< *
//SYSLIST DD SYSOUT=a *
//SYSOUT DD SYSOUT=a *
//SYSUDUMP DD SYSOUT=a *
//UCC7ARCH DD DISP=SHR,DSN=user-defined-CA-7-logarch(0) *
//UCC7HIST DD DISP=SHR,DSN=user-defined-CA-7-loghist(0) *
```

\* Designates statements that require user-supplied information. Lowercase characters within the statement identify the required user-defined information.

**Note:** The COMMANDS DD statement is only required for reports 50 and 51. The HR25REPT and HR25CSV DD statements are only required for report 25.

# Control Card Edit Report SASSHIS8

The Control Card Edit report lists all control statements input with any detected errors. The report is produced during each run of SASSHIS8.

SASSHIS8	CA-7 CONTROL CARD EDIT													01/04/yy	13:11	PAGE	1
0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	EDIT COMMENTS	
...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0		
08BROWSE														HIS8-09 NO ERRORS WERE DETECTED.			
08BROWSE	0000000099999999													HIS8-18 CONTROL CARD EDIT FINAL RESULTS.			

SASSHIS8	CA-7 CONTROL CARD EDIT													01/04/yy	13:11	PAGE	2
0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	EDIT COMMENTS	
...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0		
*** T O T A L S ***																	
001 CARDS READ.																	
001 CARDS ACCEPTED.																	
000 CARDS REJECTED.																	
0001150 ...LOG RECORDS READ:																	
0000322 ...RECORDS EXTRACTED FOR --- 08 BROWSE																	

This report contains the following fields:

## 05...80

Displays the statement in its entirety below an 80-character, positional scale.

## EDIT COMMENTS

Displays any messages relating to each statement.

## TOTALS

Displays processing totals for this run of SASSHIS8, as follows:

- Number of CARDS READ
- Number of CARDS ACCEPTED
- Number of CARDS REJECTED

## RECORDS EXTRACTED FOR

Specifies the number of RECORDS EXTRACTED FOR each of the SASSHIS8 history report control statements.

## SASSHIS8 History Reports

This topic discusses each of the history reports, followed by detailed field descriptions. The following are the history reports:

- Scheduled Jobs Not Run
- Transaction Detail
- Log Dump
- Scheduled Versus Actual Job
- Scheduled Versus Actual Station
- Job Processing Activity
- Workstation Activity
- Master Station Activity
- Cross-Platform Activity
- Cross-Platform Job Completion Profile
- Internal Cross Platform Submission Activity report
- Database Update Transaction Detail
- Abnormal Termination
- Virtual Resource Management Evaluation and Posting Activity
- Submit Cycle Summary
- Submit Job Detail
- Job Non-Submission Analysis
- Job Submission Activity
- Job Submission Output Activity
- Metrics Report
- Security Exception
- Internal Activity Trace
- Request Queue Full Recovery Aid
  - Recovery Aid Commands
  - Generated Batch Terminal Interface Commands
- Recovery Aid Reports
  - Last Logged Status of Jobs
  - Generated Batch Terminal Interface Commands
  - Simulated LQ Display of Jobs

## Scheduled Jobs Not Run Report SASSHR01

The Scheduled Jobs Not Run report displays all jobs scheduled by CA WA CA 7 Edition that did not run and the reasons for job failures.

SASSHR01	CA-7 SCHEDULED JOBS NOT RUN													03/14/yy 11:07		PAGE 1	
JOB NAME	CA-7 NO	SCHD ID	MAIN ID	REQUIREMENTS				DUE-OUT		DEAD-LINE		SUBMIT		FLAGS	COMMENTS		
				E	I	EN	IN	MC	DATE	TIME	DATE	TIME	DATE			TIME	
PKFIS587	0678	103	SY0	00	01	00	00	01	02/01/yy	11:32	02/01/yy	11:17	02/01/yy	11:12	18 08 00 01 10 10 40	CANCEL REQ	
PPDTC500	0739	002	SY0	00	01	00	01	01	02/01/yy	20:00	02/01/yy	19:51			00 08 00 01 00 00 00	CANCEL REQ	
PPMGK711	0647	001	SY0	03	04	00	01	01	02/01/yy	11:20	02/01/yy	11:09	02/01/yy	10:45	10 48 00 01 00 00 00	CANCEL REQ	
PPPTR901	0000	001	SY0	00	00	00	00	00	02/01/yy	14:00	02/01/yy	13:53	02/01/yy	12:00	00 00 08 00 00 10 00	NXT CY OFF	

SASSHR01	CA-7 SCHEDULED JOBS NOT RUN													03/14/yy 11:07		PAGE 2	
JOB NAME	CA-7 NO	SCHD ID	MAIN ID	REQUIREMENTS				DUE-OUT		DEAD-LINE		SUBMIT		FLAGS	COMMENTS		
				E	I	EN	IN	MC	DATE	TIME	DATE	TIME	DATE			TIME	
*** T O T A L S ***																	
				00004				JOBS NOT RUN.									
				0000:42				WORK ON HAND.									
				0000298				JOBS RUN.									
				001.34				PERCENTAGE NOT RUN.									
*** E N D O F R E P O R T ***																	

This report contains the following fields:

**JOB NAME**

Identifies the CA WA CA 7 Edition job name.

**CA-7 NO**

Identifies the CA WA CA 7 Edition job number.

**SCHD ID**

Identifies the CA WA CA 7 Edition schedule ID.

**MAIN ID**

Identifies the CA WA CA 7 Edition system ID. For XPJOBS, this value is always XPJ. For agent jobs, this value is the agent job type.

**REQUIREMENTS**

Specifies the status of the job requirements subdivided as follows:

**E**

Specifies the external requirements satisfied.

**I**

Specifies the internal requirements satisfied.

**EN**

Specifies the external requirements not satisfied.

**IN**

Specifies the internal requirements not satisfied.

**MC**

Specifies the master requirements count.

**DUE-OUT DATE TIME**

Identifies the date and time by which the job must be complete.

**DEAD-LINE DATE TIME**

Identifies the date and time by which the job must start.

**SUBMIT DATE AND TIME**

Identifies the date and time the job was submitted.

**FLAGS**

Identifies the job status flags from the JQREC control block. See fields JQFLG1, JQFLG2, and JQJFLG1 through JQJFLG5 (in that order) in the JQREC macro for details on the flag bytes.

**COMMENTS**

Provides comments explaining why the job did not run, according to the following:

**BEFORE/AFTER**

Indicates the job did not meet the DONT SCHEDULE BEFORE/AFTER CRITERIA.

**CANCEL xxx**

Indicates the job was scheduled but canceled in the xxx queue.

**DRMODE SSCAN**

Indicates the job was scheduled, but disaster recovery mode was active and the job's disaster recovery class was not active.

**DRMODE TRIG**

Indicates the job was triggered, but disaster recovery mode was active and the job's disaster recovery class was not active.

**DUPLICATE**

Indicates the job was considered to have already run earlier. This situation can occur when the SSCAN command is used, and the PERSTART command is used to set the time backwards.

**LOCKED**

Indicates the job schedule was locked.

**NXT CY OFF**

Indicates the job set off for next cycle.

**Q ERROR**

Indicates a CA WA CA 7 Edition queue error occurred. Examine the log data for a more detailed error message at the time the job was set for scheduling.

**SKIP NXTCY**

Indicates the job is set to skip the next cycle.

**JOBS NOT RUN**

Specifies the total number of jobs that were not run for some reason.

**WORK ON HAND**

Specifies the forecasted elapsed time required to complete the jobs that have not yet executed as of the end of the reporting period.

**JOBS RUN**

Specifies the total number of jobs that were run during this reporting period.

**PERCENTAGE NOT RUN**

Specifies the percentage of total jobs that were not run. Calculated as JOBS NOT RUN divided by JOBS RUN count.

## Transaction Detail Report SASSHR02

The Transaction Detail report displays all of the CA WA CA 7 Edition input transactions.

SASSHR02		CA-7 TRANSACTION DETAIL			01/04/yy	11:13	PAGE	1
TERMINAL ID	OPERATOR ID	DATE	TIME	TRANSACTION				
BT1	*NA*	12/31/yy	10:54:18	/LOGON				
BT1	*NA*	12/31/yy	10:54:18	PRINT, SCAL=03, YEAR=yy				
BT1	*NA*	12/31/yy	10:54:18	PRINT, SCAL=03, YEAR=yy				
BT1	*NA*	12/31/yy	10:54:18	LSCHD, DSNBR=SJ*				
BT1	*NA*	12/31/yy	10:54:19	LJOB, JOB=*				
BT1	*NA*	12/31/yy	10:54:21	FALL, SYS=*, JOB=*, FROM=(1221yy, 0800), SPAN=24				
BT1	*NA*	12/31/yy	10:54:25	/LOGOFF				
BT1	*NA*	12/31/yy	12:57:32	/LOGON				
BT1	*NA*	12/31/yy	12:57:32	PRINT, SCAL=03, YEAR=yy				
BT1	*NA*	12/31/yy	12:57:32	PRINT, SCAL=03, YEAR=yy				
BT1	*NA*	12/31/yy	12:57:32	LSCHD, DSNBR=SJ*				
BT1	*NA*	12/31/yy	12:57:33	LJOB, JOB=*				
BT1	*NA*	12/31/yy	12:57:36	FALL, SYS=*, JOB=*, FROM=(1221yy, 0800), SPAN=24				
BT1	*NA*	12/31/yy	12:57:40	/LOGOFF				
BT1	*NA*	12/31/yy	13:09:04	/LOGON				
BT1	*NA*	12/31/yy	13:09:05	PRINT, SCAL=03, YEAR=yy				
BT1	*NA*	12/31/yy	13:09:05	PRINT, SCAL=03, YEAR=yy				
BT1	*NA*	12/31/yy	13:09:05	LSCHD, DSNBR=SJ*				
BT1	*NA*	12/31/yy	13:09:06	LJOB, JOB=*				
BT1	*NA*	12/31/yy	13:09:09	FALL, SYS=*, JOB=*, FROM=(1221yy, 0800), SPAN=24				
BT1	*NA*	12/31/yy	13:09:13	/LOGOFF				

\*\*\* E N D O F R E P O R T \*\*\*

This report contains the following fields:

**TERMINAL ID**

Identifies the terminal from which the input transaction was entered.

**OPERATOR ID**

Identifies the ID of operator logged on to CA WA CA 7 Edition when the transaction was entered at the terminal identified. If operator selection was not requested, this field shows \*NA\*.

The field shows \*UNKNOWN for the following:

- The operator ID was not being logged (SECURITY, LOGOPID=NO).
- LOGOPID=YES and an operator logged on before the time period being reported.

The field can also show \*TBLFULL that indicates overflow of an internal table. When \*TBLFULL occurs, rerun the report using a shorter time frame.

**DATE**

Identifies the date the input transaction was entered.

**TIME**

Identifies the time the input transaction was entered.

**TRANSACTION**

Identifies the image of the transaction as reconstructed from the type 114 (X'72') Input Transaction log record. See the SASS7LOG macro for a description of those records.

**Top Line and Batch Transactions**

Up to 92 characters per line are printed. Multiple line commands entered in batch are logged as one continuous command. If longer than 92 characters, they are divided into multiple lines on the report.

If a command is entered on the top line of a formatted panel, only the top line appears on the report.

**/LOGON Commands**

/LOGON commands only show the command portion of what was entered. Operator ID and password are *not* shown.

**Trailer Step Commands**

Commands entered through the CA WA CA 7 Edition Trailer Step, except for /LOGON, show keywords TRJOB and TRSTEP that indicate the name of the batch job and step name of the Trailer Step that issued the commands.

**Formatted Panel Transactions**

An image of the panel framed within a box of asterisks. Each panel requires 26 lines of print (unless blank lines are suppressed through the request control statement).

The panel image seen at the terminal is not duplicated in the logged data. Only "modified" data fields are logged. Some fields then appear at the terminal but *not* on this report. That is, a field's content as seen at the terminal is only shown here if it was either:

- Manually entered on the panel for this transaction.
- Placed on the panel by CA WA CA 7 Edition and flagged to be returned to CA WA CA 7 Edition even if it is not manually changed.

For edit of JCL, and so forth with the CA WA CA 7 Edition editor, only the lines that were changed show. In such cases, the user can see those fields that were changed during the transaction without concern for the fields that were untouched.

Remember that this report displays a standard edit screen that does not always match what is seen in the online session.

All panel titles and field identifiers are reconstructed here so that at least the basic format of the panel is shown whether any of the fields contained any data.

Page numbers and MESSAGE values are some examples of fields that are *not* re-created here. In other situations, job names may be shown on some panels and not be shown on the report. In those cases, CA Earl report request CA7ER018 is of great value in determining what action was taken and the result of that action.

### Function Aliases

Function values shown on the report reflect the native value after function alias resolution was performed. That is, the operator can enter a function of D to delete a job. Alias resolution changes that to the word DELETE before the command is logged and thus appears on the report as if the operator entered the complete word.

### Formatting Options

Formatted panel options are available in the control statement for the following:

- Cause each panel to appear at the top of a new page.
- Help ensure that all of a panel appears on the same page.
- Suppress blank lines (if you want to conserve space on the output report).

### More information:

[CA7xx018 Queue Posting Activity](#) (see page 342)

## Log Dump Report SASSHR03

The Log Dump report displays selected log records in their entirety. (See the SASS7LOG macro for log record layouts.)

SASSHR03										CA-7 LOG DUMP										06/02/yy			11:10			PAGE						
RECORD	0	0	1	1	2	2	3	3	0	0	1	1	2	2	3	3	0	0	1	1	2	2	3	3	1							
POSITION	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...
0000-0039	0048000021640107355F06435444400000010000ABD00107355F0643544FF1F14BF32801235C5C5C	.....]11.3...*																														
0040-0071	40E7C3C661E3E9D540D9F1F14BF340C3C1F7F440C9D5E2E3C1D5C3C5405C5C5C	XCF/TZN R11.3 CA74 INSTANCE **																														
0000-0026	001B000005730107355F0643556640000020000ABD0C8E3C5D9D4	.....]HTERM																														
0000-0028	001D000005730107355F06435564400000030000ABD0C3D6D5E2D6D3C5	.....]CONSOLE																														
0000-0022	001700000D670107355F064355664000000400009D044	.....]																														
0000-0022	001700000D670107355F064355664000000500009D044	.....]																														
0000-0039	005300000D670107355F0643556640000006000097D040000000000100000CFFFFF0300000CFFFF	.....p].....																														
0040-0079	0200000CFFFF0400000CFFFF0599999CFFFF0699999CFFFF0799999CFFFF0899999CFFFF0999999C	.....rr.....rr.....rr.....rr.....rr																														
0080-0082	FFFFF	...																														
0000-0028	001D00000E680107355F064355664000000700009D00180000000000	.....r].....																														
0000-0028	001D00000E680107355F064355664000000800009D00200000000000	.....r].....																														
0000-0039	0031000007680107355F06435573400000900009AD000600000000000000000000000000000000	.....																														
0040-0048	000000000000000000	.....																														
0000-0021	001600000D670107355F064355834000000A00009D0	.....c.....]																														
0000-0039	005B000005430107355F064355874000000B000097D0D4C1E2E3C5D94040013B40E2C3D5F060F1F2	\$......g.....p]MASTER .. SCN0-1																														
0040-0079	40D5C5E7E340E2C3C8C5C4E4D3C540E2C3C1D540E6C1D2C560E4D740E3C9D4C540C9E240F0F74BF3	NEXT SCHEDULE SCAN WAKE-UP TIME IS 07.55 AT 0653.																														
0080-0090	F5F540C1E340F06F5F34B	.....																														
0000-0039	0046000005430107355F064355874000000C000097D0D4C1E2E3C5D94040012640404040404040	.....g.....p]MASTER ..																														
0040-0069	405C5C5C5C40E3D640D9C560D7D9D6D4D7E340E4E2C5D9405C5C5C5C5C	**** TO RE-PROMPT USER ****																														
0000-0039	005300000D670107355F064355874000000D000097D04007355C01930199999CFFFFF0399999CFFFF	.....g.....p}..*.l.r.....rr..																														
0040-0079	0299999CFFFF0499999CFFFF0599999CFFFF067355C019D0799999CFFFF0899999CFFFF0999999C	.....rr.....rr.....*.....rr.....rr.....rr																														
0080-0082	FFFFF	...																														
0000-0039	0416000022A10107355F064405814000001100008ED007355C00000163A5000163F5001300000001	~.....a.....]*.....v.....5.....																														
0040-0079	635B00000000000100	\$......																														
0080-0119	000100	.....																														
0120-0159	00000000000200	.....																														
RECORD	0	0	1	1	2	2	3	3	0	0	1	1	2	2	3	3	0	0	1	1	2	2	3	3								
POSITION	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...	0	...	5	...								

This report contains the following fields:

### RECORD POSITION

Specifies the starting and ending decimal record positions of the data shown on the line.

### 00...35 (at the left)

Specifies the contents of the record shown in hexadecimal format.

### 00...35 (at the right)

Specifies the printable characters in the record.

**Note:** The BROWSE divider line (-----...--- yy.ddd hh:mm ss) can appear differently for records created in different releases. The date is displayed only in records created with CA WA CA 7 Edition Version 12.0.00 or higher. Earlier releases generate only a timestamp.

## Scheduled Versus Actual Job Report SASSHR04

The Scheduled Versus Actual Job report displays each selected job based on scheduled compared to actual start, finish, and elapsed times.

SASSHR04		CA-7 SCHEDULED VS. ACTUAL JOB				06/02/yy 11:10		PAGE 1												
JOB NAME	CA-7# JES#	SCHEDULED	ACTUAL	DIFFERENTIAL	COMMENTS	DIFFERENTIAL SEVERITY LEVELS														
						01	02	03	04	05	06	07	08	09	10	11	12	13		
SEVERITY LEVELS FOR --- SASSDS																				
						01	-	999.98												
						02	-	005.00												
						03	-	001.00												
						04	-	000.30												
						05	-	000.10												
						06	-	000.02												
						07	+	000.02												
						08	+	000.05												
						09	+	000.10												
						10	+	000.30												
						11	+	001.00												
						12	+	005.00												
						13	+	999.99												

SASSHR04		CA-7 SCHEDULED VS. ACTUAL JOB				06/02/yy 11:10		PAGE 2											
JOB NAME	CA-7# JES#	SCHEDULED	ACTUAL	DIFFERENTIAL	COMMENTS	DIFFERENTIAL SEVERITY LEVELS													
						01	02	03	04	05	06	07	08	09	10	11	12	13	
PCAIS902	0630	START	yy/032 10:23	yy/032 10:13	000- 00:10-	COMP ( 0000)							05						
	*NA*	FINISH	yy/032 10:33	yy/032 10:16	000- 00:17-								05						
		ELAPSED	00/000 00:10	00/000 00:03	000- 00:07-								06						
PCAIS902	0821	START	yy/032 12:45	yy/032 12:43	000- 00:02-	COMP ( 0012)							06						
	6042	FINISH	yy/032 12:55	yy/032 12:46	000- 00:09-								06						
		ELAPSED	00/000 00:10	00/000 00:03	000- 00:07-								06						
PCAIS902	****	START AVERAGE			000- 00:06-	0002							06						
		FINISH AVERAGE			000- 00:13-								05						
		ELAPSED AVERAGE			000- 00:07-								06						
PCFAR030	0727	START	yy/032 14:18	yy/032 13:46	000- 00:32-	COMP ( 0500)							04						
	6025	FINISH	yy/032 14:30	yy/032 13:51	000- 00:39-								04						
		ELAPSED	00/000 00:12	00/000 00:05	000- 00:07-								06						
PCHRS305	0711	START	yy/032 12:34	yy/032 11:35	000- 00:59-	COMP ( 0500)							04						
	6029	FINISH	yy/032 12:34	yy/032 11:40	000- 00:54-								04						
		ELAPSED	00/000 00:00	00/000 00:05	000+ 00:05+									08					
PCHRS310	0835	START	yy/032 13:56	yy/032 12:56	000- 01:00-	COMP ( 0500)							03						
*** E N D O F R E P O R T ***																			

This report contains the following fields:

**JOB NAME**

Specifies the CA WA CA 7 Edition job name.

**CA-7# JES#**

Specifies the CA WA CA 7 Edition job number.

JES job number.

**SCHEDULED**

Specifies the date and time the job was scheduled to START and FINISH, and the ELAPSED time.

**ACTUAL**

Specifies the date and time the job did actually START and FINISH, and the ELAPSED time.

**DIFFERENTIAL**

Specifies the difference between scheduled and actual activities for START, FINISH, and ELAPSED times.

**COMMENTS**

Specifies the job status comments (JCL error, abend, and so forth).

**DIFFERENTIAL SEVERITY LEVELS**

Specifies the 13 levels that correspond to the differential calculated between START, FINISH and ELAPSED times.

**SEVERITY LEVELS FOR**

Specifies the Differential Severity Scale used on this report. Reflects module SASSDSxx where xx are unique characters. SASSDS is the CA WA CA 7 Edition default module.

**01 - 13**

Specifies the job statistics on a separate line for each category (START, FINISH, ELAPSED) for each of the severity levels. Statistics show the number of jobs in each category and level, and the percentage of these jobs relative to the total number of jobs for this report.

## Scheduled Versus Actual Station Report SASSHR05

The Scheduled Versus Actual Station report displays each workstation based on scheduled compared to actual start, finish, and elapsed times.

SASSHR05		CA-7 SCHEDULED VS. ACTUAL STATION					06/02/yy 11:10		PAGE 1																
JOB NAME	NETWORK NAME	SUB ID	CA-7 NO	STATION NAME	SUB NO	SCHEDULED	ACTUAL	DIFFERENTIAL	DIFFERENTIAL SEVERITY LEVELS																
									01	02	03	04	05	06	07	08	09	10	11	12	13				
SEVERITY LEVELS FOR --- SASSDS																									
													01 - -999.98												
													02 - -005.00												
													03 - -001.00												
													04 - -000.30												
													05 - -000.10												
													06 - -000.02												
													07 - +000.02												
													08 - +000.05												
													09 - +000.10												
													10 - +000.30												
													11 - +001.00												
													12 - +005.00												
													13 - +999.99												

SASSHR05		CA-7 SCHEDULED VS. ACTUAL STATION					06/02/yy 11:10		PAGE 2														
JOB NAME	NETWORK NAME	SUB ID	CA-7 NO	STATION NAME	SUB NO	SCHEDULED	ACTUAL	DIFFERENTIAL	DIFFERENTIAL SEVERITY LEVELS														
									01	02	03	04	05	06	07	08	09	10	11	12	13		
XXFAR030	XXFAR030	FAR030	0792	TXX3	1	START yy/032 13:50	yy/032 13:46	000- 00:04-	06														
						FINISH yy/032 14:00	yy/032 13:46	000- 00:14-	05														
						ELAPSED 00/000 00:10	00/000 00:00	000- 00:10-	05														
XXWEB041	XXWEB041	WEB041	0399	TXX3	1	START yy/032 08:50	yy/032 09:05	000+ 00:15+	10														
						FINISH yy/032 09:00	yy/032 09:05	000+ 00:05+	08														
						ELAPSED 00/000 00:10	00/000 00:00	000- 00:10-	05														
XXWEB042	XXWEB042	WEB042	0485	TXX3	1	START yy/032 10:00	yy/032 10:01	000+ 00:01+	07														
						FINISH yy/032 10:10	yy/032 10:01	000- 00:09-	06														
						ELAPSED 00/000 00:10	00/000 00:00	000- 00:10-	05														
XXWEB052	XXWEB052	WEB052	0432	TXX3	1	START yy/032 09:35	yy/032 09:55	000+ 00:20+	10														
						FINISH yy/032 09:45	yy/032 09:55	000+ 00:10+	09														
						ELAPSED 00/000 00:10	00/000 00:00	000- 00:10-	05														
XXABI010	XXABI010	AUSTRLIA	0478	R616	1	START yy/032 10:00	yy/032 11:38	000+ 01:38+	12														
						FINISH yy/032 12:00	yy/032 11:38	000- 00:22-	05														
						ELAPSED 00/000 02:00	00/000 00:00	000- 02:00-	03														
XXAIS700	XXAIS700	CXXS	0482	MARBK01	1	START yy/032 10:30	yy/032 14:10	000+ 03:40+	12														
						FINISH yy/032 11:00	yy/032 14:10	000+ 03:10+	12														
						ELAPSED 00/000 00:30	00/000 00:00	000- 00:30-	04														
XXCOD070	XXCOD070	CK REG	0403	MARBK09	1	START yy/032 07:50	yy/032 13:48	000+ 05:58+	13														
						FINISH yy/032 08:00	yy/032 13:48	000+ 05:48+	13														
						ELAPSED 00/000 00:10	00/000 00:00	000- 00:10-	05														
XXNOW020	XXNOW020	MAR-TRAN	0558	TXX3	1	START yy/032 11:00	yy/032 14:25	000+ 03:25+	12														
						FINISH yy/032 12:00	yy/032 14:25	000+ 02:25+	12														
						ELAPSED 00/000 01:00	00/000 00:00	000- 01:00-	03														
XXNOW025	XXNOW025	MAR-TRAN	0619	TXX3	1	START yy/032 12:30	yy/032 14:37	000+ 02:07+	12														
						FINISH yy/032 13:00	yy/032 14:37	000+ 01:37+	12														
						ELAPSED 00/000 00:30	00/000 00:00	000- 00:30-	04														
XXOBS090	XXOBS090	MARINEOB	0794	MARBK03	1	START yy/032 14:10	yy/032 14:28	000+ 00:18+	10														
						FINISH yy/032 14:30	yy/032 14:28	000- 00:02-	06														
*** E N D O F R E P O R T ***																							

This report contains the following fields:

**JOB NAME**

Specifies the CA WA CA 7 Edition job name.

**NETWORK NAME**

Specifies the name of the network for which the workstation is scheduled.

**SUB ID**

Specifies the sub-ID name associated with the network.

**CA-7 NO**

Specifies the CA WA CA 7 Edition job number.

**STATION NAME**

Specifies the name of the workstation.

**SUB NO**

Specifies the subnumber or order of the workstation.

**SCHEDULED**

Specifies the date and time the workstation was scheduled to be logged in and out, and the elapsed time.

**ACTUAL**

Specifies the date and time workstation was logged in and out, and the elapsed time.

**DIFFERENTIAL**

Specifies the difference between scheduled and actual activities for START, FINISH, and ELAPSED times.

**DIFFERENTIAL SEVERITY LEVELS**

Specifies the 13 levels that correspond to the differential calculated between START, FINISH, and ELAPSED times.

**SEVERITY LEVELS FOR**

Specifies the Differential Severity Scale used on this report. Reflects module SASSDSxx where xx are unique characters. SASSDS is the CA WA CA 7 Edition default module.

**01 - 13**

Specifies the workstation statistics on a separate line for each category (START, FINISH, ELAPSED) for each of the severity levels. Statistics show number of workstations in each category and level, and percentage these stations are to the total stations for this report.

## Job Processing Activity Report SASSHR06

The Job Processing Activity report chronologically displays the processing activity of a given job.

SASSHR06		CA-7 JOB PROCESSING ACTIVITY										09/01/yy	14:52	PAGE	1
JOBNAME	CPUID	STEP(S)	TYPE	TIME	#VOL	DSORG	RECFM	LRECL	BLKSIZE	DDNAME	DATASET-NAME	REGION	JOB#	#14'S	#15'S
CA07LOGP	IP01	02	07/21/yy	10:24:26	07/21/yy	10:24:56		00:00:29	0000	00:00:01			3		
BTIJCK01	IP01	02	07/21/yy	10:49:07	07/21/yy	10:49:45		00:00:38	0000	00:00:01			3		
TRAILER	IP01	01	07/21/yy	10:57:19	07/21/yy	10:57:30		00:00:10	0000	00:00:01			3		
ADDRQ	IP01	02	07/21/yy	11:11:07	07/21/yy	11:11:42		00:00:34	0000	00:00:01			3		

SASSHR06		CA-7 JOB PROCESSING ACTIVITY										09/01/yy	14:52	PAGE	2
JOBNAME	CPUID	STEP(S)	TYPE	TIME	#VOL	DSORG	RECFM	LRECL	BLKSIZE	DDNAME	DATASET-NAME	REGION	JOB#	#14'S	#15'S
CA07LOGP	IP01	***INITIATED***													
			INPUT	10:24:36	001 PS	VB	01400	01404	UCC7HIST	SSDDEV.UCC07.R280.LOGP					
			INPUT	10:24:36	002 P0	U	04096	32760	STEPLIB	SSDDEV.CA07.R29.LOADLIB					
		HLOGS	07/21/yy	10:24:26	07/21/yy	10:24:41		00:00:14	0000	00:00:01	0000K				
			INPUT	10:24:48	001 PS	VB	01400	01404	LOGIN	SSDDEV.UCC07.R280.LOGP					
			INPUT	10:24:49	001 PS	VB	01400	23476	HISTIN	SSDDEV.CA07.R29.LOGHIST.G04					
			OUTPUT	10:24:49	001 PS	VB	01400	23476	HISTOUT	SSDDEV.CA07.R29.LOGHIST.G04					
			INPUT	10:24:49	002 P0	U	04096	32760	STEPLIB	SSDDEV.CA07.R29.LOADLIB					
		HLOGS	07/21/yy	10:24:41	07/21/yy	10:24:54		00:00:12	0000	00:00:01	0000K				
CA07LOGP	IP01	02	07/21/yy	10:24:26	07/21/yy	10:24:56		00:00:29	0000	00:00:01	0000K		3		
BTIJCK01	IP01	***INITIATED***													
			OUTPUT	10:49:10	001 PS	FB	00080	00400	BATCHIN	SSDDEV.UCC07.R280.BATCHI					
			INPUT	10:49:31	001 PS	VB	00137	00552	BATCHOUT	SSDDEV.UCC07.R280.BATCHO					
			OUTPUT	10:49:32	001 PS	FB	00080	00400	BATCHIN	SSDDEV.UCC07.R280.BATCHI					
			OUTPUT	10:49:38	001 PS	F	01024	01024	UCC7CMDS	SSDDEV.UCC07.R280.COMMDS					
			OUTPUT	10:49:38	001 PS	F	01024	01024	UCC7CMDS	SSDDEV.UCC07.R280.COMMDS					
			INPUT	10:49:38	001 P0	U	04096	32760	JOBLIB	SSDDEV.CA07.R29.LOADLIB					
		JSTEP1	07/21/yy	10:49:07	07/21/yy	10:49:41		00:00:34	0000	00:00:01	0000K				
		JSTEP2	07/21/yy	10:49:41	07/21/yy	10:49:43		00:00:01	0000	00:00:01	0000K				
BTIJCK01	IP01	02	07/21/yy	10:49:07	07/21/yy	10:49:45		00:00:38	0000	00:00:01	0000K		3		
TRAILER	IP01	***INITIATED***													
			INPUT	10:57:24	001 P0	U	04096	32760	STEPLIB	SSDDEV.CA07.R29.LOADLIB					
		CA7TRLR	07/21/yy	10:57:19	07/21/yy	10:57:27		00:00:08	0000	00:00:01	0000K				
TRAILER	IP01	01	07/21/yy	10:57:19	07/21/yy	10:57:30		00:00:10	0000	00:00:01	0000K		3		
ADDRQ	IP01	***INITIATED***													
			OUTPUT	11:11:11	001 PS	FB	00080	00400	BATCHIN	SSDDEV.UCC07.R280.BATCHI					
			INPUT	11:11:34	001 PS	VB	00137	00552	BATCHOUT	SSDDEV.UCC07.R280.BATCHO					
			OUTPUT	11:11:35	001 PS	FB	00080	00400	BATCHIN	SSDDEV.UCC07.R280.BATCHI					
			OUTPUT	11:11:35	001 PS	F	01024	01024	UCC7CMDS	SSDDEV.UCC07.R280.COMMDS					
			OUTPUT	11:11:35	001 PS	F	01024	01024	UCC7CMDS	SSDDEV.UCC07.R280.COMMDS					
			INPUT	11:11:35	001 P0	U	04096	32760	JOBLIB	SSDDEV.CA07.R29.LOADLIB					
		JSTEP1	07/21/yy	11:11:07	07/21/yy	11:11:38		00:00:30	0000	00:00:01	0000K				
		JSTEP2	07/21/yy	11:11:38	07/21/yy	11:11:40		00:00:01	0000	00:00:01	0000K				
ADDRQ	IP01	02	07/21/yy	11:11:07	07/21/yy	11:11:42		00:00:34	0000	00:00:01	0000K		3		

This report contains the following fields:

**JOBNAME**

Specifies the CA WA CA 7 Edition job name.

**CPUID**

Specifies one of the following values:

- The SMF system ID.
- 7UNI for CA7TOUNI jobs.
- 7XPJ for XPJOBS.
- AGJ for agent jobs.

**STEP(S)**

Specifies one of the following values:

- The step name or step number.
- The execution node name for XPJOB jobs.
- The execution node name for CA7TOUNI jobs whose SMFID is 7UNI.
- The execution agent name for agent jobs.

**TYPE**

Specifies the type of data set used, either INPUT or OUTPUT.

**TIME**

Specifies the time the data set was used.

**#VOL**

Specifies the number of volumes that are associated with the data set.

**DSORG**

Specifies the data set organization.

**RECFM**

Specifies the record format of the data set.

**LRECL**

Specifies the logical record length of the data set.

**BLKSIZE**

Specifies the block size of the data set.

**DDNAME**

Specifies the ddname from the JCL statement.

**DATASET-NAME**

Specifies the name of the data set.

**START**

Specifies the date and time job processing began.

**FINISH**

Specifies the date and time job processing ended.

**DURATION**

Specifies the length of time (clock) required for job processing.

**COMP-CD**

Specifies the completion code of the job or step.

**CPU-TIME**

Specifies the amount of CPU time used.

**REGION**

Specifies the largest region that is reserved for the job or used by the job.

**JOB#**

Specifies the job number. This column shows the JES job number when it is available. If the JES job number is not available, the column displays the CA WA CA 7 Edition job number.

**#14's**

Specifies the number of data sets used as input (that is, SMF record type 14 count).

**#15's**

Specifies the number of data sets used as output (that is, SMF record type 15 count).

By default, CA WA CA 7 Edition does not track SMF type 14 or 15 records. This means that the report would not show DDs and their corresponding data set names. Also, the record count for each record type would be zero.

## Workstation Activity Report SASSHR07

The Workstation Activity report chronologically displays the processing activity of a given workstation.

SASSHR07	CA-7 WORKSTATION ACTIVITY REPORT								03/11/yy 11:10		PAGE 1	
STATION NAME	NETWORK NAME	SUB-ID NAME	JOB NAME	CA-7 NO	TYPE	LOG-IN DATE TIME		LOG-OUT DATE TIME		DURATION	COMMENTS	
TXX3	XXWEB050	WEB050	XXWEB050	0364	PRE	02/01/yy	07:10	02/01/yy	07:10	00:00	LATE,	
TXX3	XXTRN115	001	XXTRN115	0392	PRE	02/01/yy	07:16	02/01/yy	07:16	00:00		
TXX3	XXILA117	ILA117	XXILA117	0401	PRE	02/01/yy	07:16	02/01/yy	07:16	00:00		
TXX3	XXWEB051	WEB051	XXWEB051	0368	PRE	02/01/yy	07:51	02/01/yy	07:51	00:00	LATE,	
TXX3	XXFAR025	FAR025	XXFAR025	0402	PRE	02/01/yy	07:55	02/01/yy	07:55	00:00		
TXX3	XXWEB040	WEB040	XXWEB040	0398	PRE	02/01/yy	08:03	02/01/yy	08:03	00:00	LATE,	
UC04	IPSRCT	EXTRACT	XXRCT019	0391	PRE	02/01/yy	08:09	02/01/yy	08:09	00:00		
TXX3	XXLBX120	LBX120	XXLBX120	0393	PRE	02/01/yy	08:32	02/01/yy	08:32	00:00	LATE,	
TXX3	XXECL101	ECL101	XXECL101	0396	PRE	02/01/yy	08:33	02/01/yy	08:33	00:00		
TXX3	XXSHD117	SHD117	XXSHD117	0400	PRE	02/01/yy	08:33	02/01/yy	08:33	00:00		
TXX3	XXSHD120	SHD120	XXSHD120	0397	PRE	02/01/yy	08:37	02/01/yy	08:37	00:00		
FREIGHT	XXPTS010	BALANCE	XXPTS010	0423	PRE	02/01/yy	08:44	02/01/yy	08:44	00:00		
UC04	XXAIS708	EXTRACT	XXAIS708	0394	PRE	02/01/yy	08:50	02/01/yy	08:50	00:00		
UC04	XXCDA010	BALANCE	XXCDA010	0428	PRE	02/01/yy	08:50	02/01/yy	08:50	00:00		
TXX3	XXRCT020	TRANSMIT	XXRCT020	0395	PRE	02/01/yy	08:56	02/01/yy	08:56	00:00		

\*\*\* END OF REPORT \*\*\*

This report contains the following fields:

### STATION NAME

Specifies the CA WA CA 7 Edition workstation name.

### NETWORK NAME

Specifies the name of the network associated with the workstations.

### SUB-ID NAME

Specifies the sub-ID of the network name.

### JOB NAME

Specifies the CA WA CA 7 Edition job name associated with the workstation.

### CA-7 NO

Specifies the CA WA CA 7 Edition control number associated with the workstation.

### TYPE

Specifies the type of workstation, either PRE (preprocessing) or POST (postprocessing).

**LOG-IN DATE TIME**

Specifies the date and time workstation processing began.

**LOG-OUT DATE TIME**

Specifies the date and time workstation processing ended.

**DURATION**

Specifies the length of time required for processing.

**COMMENTS**

Specifies the comments relating to workstation processing.

**AUTO-JOB**

Indicates that the job was triggered.

**CANC**

Indicates that the network was canceled.

**JOB-DEM**

Indicates that the job was demanded.

**LATE**

Indicates that the activity is late.

**NW-DEM**

Indicates that the network was demanded.

## Master Station Activity Report SASSHR08

The Master Station Activity report displays messages that were previously written to a browse data set (DEVICE=BSAM in the initialization file).

SASSHR08		CA-7 MASTER STATION ACTIVITY		08/13/yy 11:10	PAGE 1
DATE	TIME	MESSAGE TEXT			
07/20/yy	14:40:05	SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A PRE Q PROMPT *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A REQ Q PROMPT *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A POST Q PROMPT *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** TO SUBMIT A JOB *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** TO SCAN NEXT INTERVAL *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** TO RE-PROMPT USER *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A SKELETON RETRY CYCLE *****		
		SJC0-00	SUBMIT PROGRAM STARTED		
		SJC0-00	JCL SUBMIT COMPLETE 00 JOBS SUBMITTED AT 14:40:05 ON yy.202		
			-----yy.202 14:40:05		
16:52:51		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A PRE Q PROMPT *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A REQ Q PROMPT *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** FOR A POST Q PROMPT *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** TO SUBMIT A JOB *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** TO SCAN NEXT INTERVAL *****		
16:52:52		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm. ***** TO RE-PROMPT USER *****		
		SCN0-12	NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.202 AT hh:mm.		

This report contains the following fields:

### DATE

Specifies the date that the message was sent. Only shown at top of a page or whenever it changes.

### TIME

Specifies the time that the message was sent. Only shown at top of a page or whenever it changes.

### MESSAGE TEXT

Specifies the message text as it was generated.

**Note:** The BROWSE divider line (-----...---- yy.ddd hh:mm ss) can appear differently for records created in different releases. The date is displayed only in records created with CA WA CA 7 Edition Version 12.0.00 or higher. Earlier releases generate only a timestamp.

## Cross Platform Activity Report SASSHR09

The Cross Platform Activity report chronologically displays processing activity for selected cross platform jobs.

SASSHR09		CA-7 CROSS PLATFORM ACTIVITY REPORT				03/02/yy 11:11		PAGE 1	
*-----START-----*		*-----FINISH-----*							
DATE	TIME	DATE	TIME	JOB NAME	TYPE	DURATION	RETURN CODE	NODE/AGENT	
02/24/yy	13:08:38.78	02/24/yy	13:08:38.78	EROCAG02	AGJ	00:00:00.00	0000	EROCAGENT	
02/24/yy	17:40:01.18	02/24/yy	17:40:06.92	EROCAG01	AGJ	00:00:05.74	0000	EROCAGENT	
02/24/yy	17:49:56.58	02/24/yy	17:49:56.58	EROCAGM2	AGJ	00:00:00.00	JCLER	doejo01esp	
02/24/yy	17:49:56.82	02/24/yy	17:49:56.82	EROCAGM3	AGJ	00:00:00.00	JCLER	doejo01esp	
02/24/yy	17:49:56.81	02/24/yy	17:49:58.97	EROCAGB1	AGJ	00:00:02.16	0000	USER023ESP	
02/24/yy	17:50:56.76	02/24/yy	17:51:12.92	EROCAG04	AGJ	00:00:16.16	0000	EROCAGENT	
02/25/yy	06:04:40.29	02/25/yy	06:04:41.45	BS07AGQ2	AGJ	00:00:01.16	1234	USER023ESP	
02/25/yy	05:05:08.31	02/25/yy	05:06:08.47	BS07XP01	7XPJ	00:01:00.16	0000	USER023D	
02/25/yy	06:04:55.15	02/25/yy	06:05:00.33	BS07AGQ3	AGJ	00:00:05.18	0000	USER023ESP	
02/25/yy	06:05:15.47	02/25/yy	06:05:25.64	BS07AGQ4	AGJ	00:00:10.17	0000	USER023ESP	
02/25/yy	06:05:30.27	02/25/yy	06:05:35.84	BS07AGQ5	AGJ	00:00:05.57	0000	USER023ESP	
02/25/yy	06:05:40.29	02/25/yy	06:05:41.44	BS07AGQ6	AGJ	00:00:01.15	9999	USER023ESP	
02/25/yy	05:06:09.97	02/25/yy	05:07:10.13	BS07XP02	7XPJ	00:01:00.16	0000	USER023D	
02/25/yy	06:07:06.59	02/25/yy	06:07:13.77	BS07AGQ7	AGJ	00:00:07.18	0000	USER023ESP	
02/25/yy	05:07:14.99	02/25/yy	05:08:15.16	BS07XP03	7XPJ	00:01:00.17	0000	USER023D	

This report contains the following fields:

**START DATE**

Identifies the start date of the cross platform job execution.

**START TIME**

Identifies the start time of the cross platform job execution.

**FINISH DATE**

Identifies the end date of the cross platform job execution.

**FINISH TIME**

Identifies the end time of the cross platform job execution.

**JOB NAME**

Identifies the cross platform job name.

**TYPE**

Identifies the cross platform job type (7XPJ, 7UNI, or AGJ).

**DURATION**

Identifies the cross platform job duration, the ending date/time minus start date/time.

**RETURN CODE**

Identifies the return code of the executed cross platform job.

**NODE/AGENT**

Identifies the name of the node or agent where the cross platform job executed.

## Cross Platform Job Completion Profile Report SASSHR10

The Cross Platform Job Completion Profile report shows the number of cross-platform jobs run by the hour or by the day. The report also breaks them out by return code.

SASSHR10-1		CA-7 CROSS PLATFORM JOB COMPLETION PROFILE						10/12/yy	11:20	PAGE	1
HOURLY COUNTS FOR NODES MATCHING PARAMETER CA07XPJOB											
DATE	TIME	PRE-EXEC	NON-ZERO	ABENDS	ZERO	TOTAL	% ZERO				
10/11/yy	05:00-06:00	0	0	0	2	2	100%				
10/11/yy	09:00-10:00	0	4	0	1	5	20%				
10/12/yy	02:00-03:00	0	2	0	0	2	0%				
*TOTALS*		0	6	0	3	9	33%				
*** E N D O F R E P O R T ***											

SASSHR10-H		CA-7 CROSS PLATFORM JOB COMPLETION PROFILE						02/28/yy	11:20	PAGE	1
DATE	TIME	PRE-EXEC	NON-ZERO	ABENDS	ZERO	TOTAL	% ZERO	NODE/AGENT			
02/24/yy	17:00-18:00	0	0	0	2	2	100%	USER023ESP			
02/25/yy	06:00-07:00	0	2	0	8	10	80%	USER023ESP			
02/25/yy	09:00-10:00	0	0	0	2	2	100%	USER023ESP			
02/25/yy	10:00-11:00	0	0	0	6	6	100%	USER023ESP			
*TOTALS*		0	2	0	18	20	90%				

This report contains the following fields:

**SASSHR10-1**

Identifies the type of the requested report (from the input parameter report type).

**HOURLY COUNTS ...**

Identifies the mask for the node, when specified with report types 1 or 2.

**DATE**

Identifies the date that the job was run.

**TIME**

Identifies the hour period (if an hourly report was requested).

**PRE-EXEC**

Identifies the number of jobs not executed.

**NON-ZERO**

Identifies the number of jobs with non-zero return code.

**ABENDS**

Identifies the number of abended jobs.

**ZERO**

Identifies the number of jobs with zero return code.

**TOTAL**

Identifies the total number of jobs.

**% ZERO**

Identifies the percentage of jobs with zero return code.

**TOTALS**

Identifies the sum of all numbers for each column.

**NODE/AGENT**

Identifies the node or agent name where the cross platform job executed.

## Cross Platform Submission Activity Report SASSHR11

The Cross Platform Submission Activity report shows the data that are submitted to the agent for selected cross platform jobs.

SASSHR11		CA-7 XPJOB SUBMISSION ACTIVITY				03/02/yy	11:18	PAGE	1
DATE	TIME	JOBNAME	SCHID	JNO	SUBMISSION	PROCESSING	RETURN	CODE	
02/25/yy	06:05:08	BS07XP01	001	0022	00-00				
NODE : USER023D APPNAME : CA7CA77 ENTRYNO : 7777000225456 JOBSET : BSNETWRK SUTYPE : Y FILE : CAU9TEST PARM01 : T=60									
02/25/yy	06:05:17	BS07AG00	001	0028	00-00				
AGENT : USER023ESP 20090225 06051777+0500 USER023ESP CA7CA77 BS07AG00.N00028/BSJOBQA.S00001D09056/MAIN RUN . Data(Command=CAU9TEST.EXE) TargetSubsystem(WIN)									

This report contains the following fields:

### DATE

Identifies the date that the job was run.

### TIME

Identifies the time that the job was run.

### JOBNAME

Identifies the job name.

### SCHID

Identifies the schedule ID.

### JNO

Identifies the job number.

### **SUBMISSION PROCESSING RETURN CODE**

Identifies the preprocess or process return code. If non-zero, an error message is displayed, and the parameter data is not shown.

**Note:** Agent job submission differs from CPU and XPJOB submission. For CPU jobs and XPJOBS, the job is sent directly to the execution node. For agent jobs, the job is sent to CA Integrated Agent Services (CA IAS). CA IAS then attempts to send it to the agent. If the agent is unavailable (W-AGENT), CA IAS holds the job and retries based on parameter settings in the IAS MANAGER or AGENT initialization file statements. If CA IAS is not available (N-IAS), the job is not even sent from CA WA CA 7 Edition to CA IAS.

For agent jobs, the log data that are used to produce this report is not available until the job has been sent to the agent. Consequently, jobs in W-AGENT status (from the LQ command) do not have SUBMISSION PROCESSING RETURN CODE data other than 00-00. Because the jobs in N-IAS status are not submitted, they do not appear on this report.

### **NODE**

Identifies the node name.

The following items are printed only when an AJB is present for an XPJOB.

### **APPNAME**

Identifies the application name or primary when XPHAO is specified.

### **ENTRYNO**

Identifies the entry number of the job.

### **JOBSET**

Identifies the jobset.

### **SUTYPE**

Identifies the UNIX switch user cmd SU-.

### **FILE**

Identifies the destination of file to run on requested node.

### **PARMnn**

Identifies the PARMnn data (if requested).

### **USER**

Identifies the user ID (if requested).

For agent jobs, the report prints information from the AFM that was sent to the agent.

If the input parameters request the printing of PARM data, the agent name prints, followed by the AFM header, followed by each field of the AFM with each field beginning on a new line.

If no PARM data is requested, only the agent name and AFM header print.

## Database Update Transaction Detail Report SASSHR12

The Database Update Transaction Detail report is a subset of the Transaction Detail report (SASSHR02). Only transactions that change a definition in the CA WA CA 7 Edition database are reported. Other commands, such as list, forecasting, and queue management commands, are excluded.

## Abnormal Job Termination Report SASSHR13

The Abnormal Job Termination report prints a list of jobs that terminated abnormally (as defined to CA WA CA 7 Edition).

SASSHR13		CA-7 ABNORMAL TERMINATION REPORT										10/17/yy	11:18	PAGE	1
JOB NAME	SCHD ID	CA-7 JBNM	CA-7 COMPCODE	CA-7 SYSTEM	CPU ID	JES NUMBER	STEP NO	STEP NAME	START DATE	START TIME	END DATE	END TIME	CPU TIME		
CA75#SCC	001	0257	R-#0024		CA11	57017	0001	STEP1	10/10/yy	05:31:19.49	10/10/yy	05:31:19.59	00:00:00.00		
CA75#SCC	001	0258	R-#0024		CA11	57020	0001	STEP1	10/10/yy	05:31:23.83	10/10/yy	05:31:23.98	00:00:00.00		
CA75CC12	001	0260	R-C0012		CA11	57022	0001	STEP1	10/10/yy	05:31:29.61	10/10/yy	05:31:29.73	00:00:00.00		
CA75#SCC	001	0259	R-#0024		CA11	57023	0001	STEP1	10/10/yy	05:31:33.53	10/10/yy	05:31:33.64	00:00:00.00		
CA75CC12	001	0261	R-C0012		CA11	57024	0001	STEP1	10/10/yy	05:31:33.64	10/10/yy	05:31:33.80	00:00:00.00		
CA75CC12	001	0262	R-C0012		CA11	57026	0001	STEP1	10/10/yy	05:31:42.76	10/10/yy	05:31:42.87	00:00:00.00		
CA75CC12	001	0263	R-C0012		CA11	57030	0001	STEP1	10/10/yy	05:31:53.24	10/10/yy	05:31:53.36	00:00:00.00		
CA75S806	001	0268	A-S806		CA11	57036	0001	STEP1	10/10/yy	05:32:28.26	10/10/yy	05:32:28.37	00:00:00.00		
CA75S806	001	0269	A-S806		CA11	57037	0001	STEP1	10/10/yy	05:32:32.99	10/10/yy	05:32:33.19	00:00:00.00		
CA75U200	001	0271	A-U2000		CA11	57039	0001	STEP1	10/10/yy	05:32:36.71	10/10/yy	05:32:36.82	00:00:00.00		
CA75U200	001	0272	A-U2000		CA11	57041	0001	STEP1	10/10/yy	05:32:43.03	10/10/yy	05:32:43.13	00:00:00.00		
CA75S806	001	0270	A-S806		CA11	57042	0001	STEP1	10/10/yy	05:32:43.13	10/10/yy	05:32:43.24	00:00:00.00		
CA75S806	001	0275	A-S806		CA11	57046	0001	STEP1	10/10/yy	05:32:53.14	10/10/yy	05:32:53.25	00:00:00.00		
CA75U200	001	0273	A-U2000		CA11	57047	0001	STEP1	10/10/yy	05:32:53.16	10/10/yy	05:32:53.29	00:00:00.00		
CA75#SCC	001	0277	R-#0024		CA11	57048	0001	STEP1	10/10/yy	05:32:55.57	10/10/yy	05:32:55.67	00:00:00.00		
CA75#SCC	001	0277	R-#0024		CA11	57048	0001	STEP1	10/10/yy	05:32:55.57	10/10/yy	05:32:55.67	00:00:00.00		
CA75CC12	001	0278	R-C0012		CA11	57050	0001	STEP1	10/10/yy	05:32:59.57	10/10/yy	05:32:59.75	00:00:00.00		
CA75U200	001	0274	A-U2000		CA11	57051	0001	STEP1	10/10/yy	05:33:03.67	10/10/yy	05:33:03.79	00:00:00.00		
CA75#SCC	001	0279	R-#0024		CA11	57053	0001	STEP1	10/10/yy	05:33:25.15	10/10/yy	05:33:25.31	00:00:00.00		
CA75CC12	001	0280	R-C0012		CA11	57054	0001	STEP1	10/10/yy	05:33:27.20	10/10/yy	05:33:27.29	00:00:00.00		
CA75S806	001	0281	A-S806		CA11	57055	0001	STEP1	10/10/yy	05:33:31.33	10/10/yy	05:33:31.43	00:00:00.00		
CA75U200	001	0282	A-U2000		CA11	57059	0001	STEP1	10/10/yy	05:33:36.01	10/10/yy	05:33:36.13	00:00:00.00		
CA75JCLE	001	0284	R-JCLERR		CA11	57219	0001	*NA*	10/10/yy	06:00:42.96	10/10/yy	06:00:43.09	00:00:00.00		
CA75JCLE	001	0285	R-JCLERR		CA11	57220	0001	*NA*	10/10/yy	06:00:51.38	10/10/yy	06:00:51.50	00:00:00.00		

This report contains the following fields:

**JOB NAME**

Identifies the CA WA CA 7 Edition job name.

**SCHD ID**

Identifies the CA WA CA 7 Edition schedule ID.

**CA-7 JBNM**

Identifies the CA WA CA 7 Edition job number

**COMPCODE**

Identifies the CA WA CA 7 Edition job completion code:

**A-Sxxx**

Indicates a system abend.

**A-Uxxx**

Indicates a user abend.

**R-Cxxx**

Indicates a completion code.

**R-#xxxx**

Indicates an SCC return code.

**R-JCLERR**

Indicates a JCLERR flag.

**CA-7 SYSTEM**

Identifies the CA WA CA 7 Edition system.

**CPU ID**

Specifies one of the following values:

- The central processing unit ID.
- 7UNI for CA7TOUNI jobs.
- 7XPJ for XPJOBS.
- AGJ for agent jobs.

**JES NUMBER**

Identifies the JES job number (if not available, displays \*NA\*).

**STEP NO**

Identifies the abnormally terminated step number.

**STEP NAME**

Identifies the abnormally terminated step name (for CA7TOUNI and XPJOB jobs, displays the node name).

**START DATE**

Identifies the start date of job.

**START TIME**

Identifies the start time of job where the job ran.

**END DATE**

Identifies the end date of job.

**END TIME**

Identifies the end time of job where the job ran.

**CPU TIME**

Identifies the CPU time.

## Virtual Resource Management Evaluation and Posting Activity SASSHR16

The Virtual Resource Management Evaluation and Posting Activity report lists information about resources that were activated/deactivated. In addition, each time that a different resource stops job submission, the resource name and job name are listed.

The report can be used with SASSHR22 (Job Non-Submission Analysis Report) to trace the flow of a job that uses resources. SASSHR22 shows a history (count) of the attempts to submit the job. However, it only shows the last resource that prevented submission. SASSHR16 shows each resource that prevented a particular job from being submitted.

SASSHR16		CA-7 VIRTUAL RESOURCE MANAGEMENT EVALUATION AND POSTING ACTIVITY			10/31/yy	11:39	PAGE	1
DATE	TIME	JOB NAME	DESCRIPTION	RESOURCE NAME			TYPE	FREE
10/19/yy	05:00:55.12	-----	COREQ RESOURCE ACTIVATION	RSRC13			---	---
10/19/yy	05:00:55.24	-----	COREQ RESOURCE ACTIVATION	RSRC18			---	---
10/19/yy	05:00:55.26	-----	COREQ RESOURCE ACTIVATION	RSRC23			---	---
10/19/yy	05:00:55.28	-----	COREQ RESOURCE ACTIVATION	RSRC28			---	---
10/19/yy	05:00:56.48	-----	COREQ RESOURCE DEACTIVATION	RSRC13			---	---
10/19/yy	05:00:56.50	-----	COREQ RESOURCE DEACTIVATION	RSRC1 8			---	---
10/19/yy	05:00:56.52	-----	COREQ RESOURCE DEACTIVATION	RSRC2 3			---	---
10/19/yy	05:00:56.54	-----	COREQ RESOURCE DEACTIVATION	RSRC2 8			---	---
10/26/yy	05:24:20.46	R111V2	RSRC Resource Not Available	NOTEXIST			EXC	F
10/26/yy	05:24:23.90	R111V3	RSRC Resource Not Available	NOTEXIST			EXC	F

This report contains the following fields:

**DATE**

Identifies the date that the job was run or resource was activated.

**TIME**

Identifies the time that the job was run or resource was deactivated.

**JOB NAME**

Identifies the job name.

**DESCRIPTION**

Specifies a resource description.

**RESOURCE NAME**

Identifies the resource name.

**TYPE**

Identifies the usage of the resource by the job (ASX, CRQ, EXC, RCT, SHR, VAR).

**ASX**

Identifies an address space resource.

**CRQ**

Identifies a co-requisite resource.

**EXC**

Identifies an exclusive resource.

**RCT**

Identifies a resource count resource.

**SHR**

Identifies a shared resource.

**VAR**

Identifies a variable definition.

**FREE**

Identifies how VRM manages resource availability at job submission and job/step completion. (A, F, N, Y, I)

For shared and exclusive resources (SHR, EXC):

**A**

Free if any step abends.

**F**

Free when any job ends, either successfully or unsuccessfully.

**N**

Do not free the resource at a successful job completion. The resource can be freed with the PRSCF command.

**Y**

Free at a successful job completion.

For corequisite resources (CRQ):

**A**

Submitted if the resource is active.

**I**

Submitted if the resource is inactive.

For address space resources (ASX):

**A**

Submitted only if the resource is active on the same system as CA WA CA 7 Edition.

**I**

Submitted if the resource is inactive on the same system as CA WA CA 7 Edition.

For variable resources (VAR), the FREE option is not used and is always set to N.

For resource count resources (RCT):

**A**

Decrement the resource count when the job abends.

**F**

Decrement the resource count when the job completes, either successfully or unsuccessfully.

**N**

Do not decrement when the job completes.

**Y**

Decrement when the job or step ends successfully.

## Submit Cycle Summary Report SASSHR20

The Submit Cycle Summary report displays information about CA WA CA 7 Edition submit cycles.

SASSHR20		CA-7 SUBMIT CYCLE SUMMARY							12/21/yy 12:09		PAGE	1
BEGIN DATE	BEGIN TIME	END TIME	CYCLE DURATION	Q MOVED REQ->RDY	PHASE 1 DURATION	PHASE 2 DURATION	PH 2 SUB %	JOBS EVAL'D	JOBS SUBMIT	JOBS NOT SUBMIT'D	CYCLE NO.	
12/21/yy	10:45:48.57	10:45:50.08	0:01.51	0	N/A	N/A	N/A	0	0	0	1	
12/21/yy	10:46:35.75	10:46:36.37	0:00.62	1	0:00.39	0:00.23	37.09	1	1	0	2	
12/21/yy	10:46:49.57	10:46:49.60	0:00.03	0	N/A	N/A	N/A	0	0	0	3	
12/21/yy	10:48:12.80	10:48:13.68	0:00.88	1	0:00.12	0:00.76	86.36	1	1	0	4	
12/21/yy	10:48:30.36	10:48:30.81	0:00.45	0	N/A	N/A	N/A	0	0	0	5	
12/21/yy	10:48:42.55	10:48:43.10	0:00.55	1	0:00.19	0:00.36	65.45	1	1	0	6	
12/21/yy	10:49:00.55	10:49:00.66	0:00.11	0	N/A	N/A	N/A	0	0	0	7	

\*\*\* E N D O F R E P O R T S A S S H R 2 0 \*\*\*

This report contains the following fields:

**BEGIN DATE**

Identifies the date the submit cycle started.

**BEGIN TIME**

Identifies the time the submit cycle started.

**END TIME**

Identifies the time the submit cycle ended. The end date is not listed. It is assumed that the cycle ended on the same day it started or the next day.

**CYCLE DURATION**

Identifies the difference between the time the cycle started and ended. Durations are in the format *mmm:ss.th*.

**Q MOVED REQ->RDY**

Identifies the number of jobs moved from the request queue to the ready queue during this submit cycle.

**PHASE 1 DURATION**

Identifies the time between cycle start and the first job was submitted. The field contains N/A when no jobs were submitted during this cycle.

**PHASE 2 DURATION**

Identifies the time between the first job was submitted and the cycle ended. The field contains N/A when no jobs were submitted during this cycle.

**PH 2 SUB %**

Identifies the percentage of time that the cycle spent in phase 2. The field contains N/A when no jobs were submitted during this cycle.

**JOBS EVAL'D**

Identifies the number of jobs evaluated for submission.

**JOBS SUBMIT**

Identifies the number of jobs submitted.

**JOBS NOT SUBMIT'D**

Identifies the number of jobs not submitted.

**CYCLE NO.**

Identifies the arbitrary cycle number, which starts from 1.

## Submit Job Detail Report SASSHR21

The Submit Job Detail report displays information about each job that is processed during one or more CA WA CA 7 Edition submit cycles. Only the cycles in which jobs were submitted are reported. Jobs before the first "cycle start" record are not reported.

**Note:** Submit cycle reporting is not valid for log data created when either of the following values is coded on the OPTIONS statement in the initialization file:

- PSP=YES
- JSOP=2

SASSHR21		CA-7 SUBMISSION JOB DETAIL							10/31/yy	13:32	PAGE	1
JOB NAME	JOB #	EVALUATION DURATION	BEGIN DATE	BEGIN TIME	END DATE	END TIME	SUBMIT DURATION	# OF LINES				
GI030TRG	6709	-----	10/14/yy	18:37:12.24	10/14/yy	18:37:13.31	0:01.07	1,885				
HBSQCEG	6713	0:00.04	10/14/yy	18:37:13.35	10/14/yy	18:37:14.14	0:00.79	403				
HBZCBCSG	6712	0:00.02	10/14/yy	18:37:14.16	10/14/yy	18:37:15.24	0:01.08	475				
HCB1MSG	6676	0:00.45	10/14/yy	18:37:15.69	10/14/yy	18:37:16.91	0:01.22	567				
HCB1IMG	6672	0:00.25	10/14/yy	18:37:17.16	10/14/yy	18:37:17.33	0:00.17	546				
HBZSITRG	6719	0:00.25	10/14/yy	18:37:17.58	10/14/yy	18:37:18.18	0:00.60	221				
SEFI5MLM	6720	0:00.03	10/14/yy	18:37:18.21	10/14/yy	18:37:19.23	0:01.02	4,563				
SUBTOTAL AVERAGE	7	0:01.04 0:00.17	10/14/yy	18:37:12.24	10/14/yy	18:37:19.23	0:05.95 0:00.85	8,660 1,237.14	CYCLE #	1		
HBRHCBOG	6730	-----	10/14/yy	18:37:19.77	10/14/yy	18:37:20.59	0:00.82	255				
SUBTOTAL AVERAGE	1	-----	10/14/yy	18:37:19.77	10/14/yy	18:37:20.59	0:00.82 0:00.82	255 255.00	CYCLE #	2		
HBZRDCSG	6747	-----	10/14/yy	18:37:21.89	10/14/yy	18:37:22.51	0:00.62	506				
>HBPDLPCG	6706	0:00.43	10/14/yy	18:37:22.94	10/14/yy	18:37:25.06	0:02.12	594				
HBZANMAG	6694	0:00.04	10/14/yy	18:37:25.10	10/14/yy	18:37:26.51	0:01.41	615				
SUBTOTAL AVERAGE	3	0:00.47 0:00.23	10/14/yy	18:37:21.89	10/14/yy	18:37:26.51	0:04.15 0:01.38	1,715 571.66	CYCLE #	3		
GI030MSG	6769	-----	10/14/yy	18:37:34.83	10/14/yy	18:37:36.08	0:01.25	1,885				
SUBTOTAL AVERAGE	1	-----	10/14/yy	18:37:34.83	10/14/yy	18:37:36.08	0:01.25 0:01.25	1,885 1,885.00	CYCLE #	10		

This report contains the following fields:

A ">" in column 1 indicates a job that meets or exceeds the threshold that is specified in the control statement for the report.

**JOB NAME**

Identifies the CA WA CA 7 Edition job name.

**JOB #**

Identifies the CA WA CA 7 Edition job number.

**EVALUATION DURATION**

Identifies the difference between the time the previous job in the same submit cycle was submitted and the time this job started to be submitted. This value is the amount of time it took to determine that this job was eligible for submission. More than one job is sometimes evaluated during this period. The first job in a submit cycle has no evaluation duration. Durations are in the format *mmm:ss.th*.

**BEGIN DATE**

Identifies the date the job submit process began.

**BEGIN TIME**

Identifies the time the job submit process began.

**END DATE**

Identifies the date the job submit process ended.

**END TIME**

Identifies the time the job submit process ended.

**SUBMIT DURATION**

Identifies the difference between the job submit begin and end times.

**# OF LINES**

Identifies the number of non-CA WA CA 7 Edition JCL records for the job.

**SUBTOTAL JOB NAME**

Identifies the total number of jobs in the cycle.

**SUBTOTAL AVERAGE EVALUATION DURATION**

Identifies the total and average evaluation duration for the cycle. The first job in the cycle is not included. If a cycle has only one job, no total or average evaluation duration is reported.

**SUBTOTAL BEGIN DATE**

Identifies the date the submit process began for the first job in the cycle.

**SUBTOTAL BEGIN TIME**

Identifies the time the submit process began for the first job in the cycle.

**SUBTOTAL END DATE**

Identifies the date the submit process ended for the last job in the cycle.

**SUBTOTAL END TIME**

Identifies the time the submit process ended for the last job in the cycle.

**SUBTOTAL SUBMIT DURATION**

Identifies the total and average submit duration for the cycle.

**SUBTOTAL # OF LINES**

Identifies the total and average number of non-CA WA CA 7 Edition JCL records for the cycle.

**CYCLE #**

Identifies the arbitrary cycle number, which starts from 1. The number restarts from 1 for each report 21 printed.

If column 32 of the control statement for this report contains an E, the Subtotal/Average lines are not generated. Only those jobs that meet or exceed the threshold that is specified in columns 29-31 are reported. Jobs before the first "cycle start" record are now reported.

SASSHR21		CA-7 SUBMISSION JOB DETAIL							10/31/yy	13:32	PAGE	1
JOB NAME	JOB #	EVALUATION DURATION	BEGIN DATE	BEGIN TIME	END DATE	END TIME	SUBMIT DURATION	# OF LINES	CYCLE			
>ALG53UNG	3244	0:00.02	10/14/yy	18:30:27.90	10/14/yy	18:30:29.41	0:01.51	128	0			
>GI035TUG	5921	0:00.04	10/14/yy	18:30:39.05	10/14/yy	18:30:40.59	0:01.54	1,638	1			
>HBXDLMFG	5955	-----	10/14/yy	18:31:08.69	10/14/yy	18:31:12.89	0:04.20	581	2			
>AGESTMIG	5963	0:00.02	10/14/yy	18:31:19.21	10/14/yy	18:31:21.07	0:01.86	113	2			
>HBXDLRAG	5979	0:00.04	10/14/yy	18:32:01.76	10/14/yy	18:32:03.95	0:02.19	581	2			
>GI015CHG	6059	0:00.08	10/14/yy	18:32:22.37	10/14/yy	18:32:24.06	0:01.69	2,673	3			
>GI010FMG	6066	0:00.09	10/14/yy	18:32:27.69	10/14/yy	18:32:30.20	0:02.51	5,238	3			
>SEGDIRAM	6089	0:00.34	10/14/yy	18:32:37.79	10/14/yy	18:32:39.56	0:01.77	4,171	3			
>AGESTUIG	6042	0:00.03	10/14/yy	18:32:59.98	10/14/yy	18:33:14.64	0:14.66	113	3			
>SW001VCG	6043	0:00.06	10/14/yy	18:33:14.70	10/14/yy	18:33:17.14	0:02.44	336	3			
>HBZI1UNG	6063	0:00.03	10/14/yy	18:33:22.81	10/14/yy	18:33:24.41	0:01.60	449	3			
>HBCB1IMG	6096	0:00.04	10/14/yy	18:33:34.54	10/14/yy	18:33:37.84	0:03.30	546	3			
>HBZRD CSG	6061	0:00.05	10/14/yy	18:33:37.89	10/14/yy	18:33:42.91	0:05.02	506	3			
>GI015RAG	6114	0:00.03	10/14/yy	18:33:44.11	10/14/yy	18:33:45.61	0:01.50	2,673	3			
>GI025GEG	6124	0:00.17	10/14/yy	18:33:47.23	10/14/yy	18:33:52.64	0:05.41	2,514	3			
>SETA1PUM	6125	0:00.11	10/14/yy	18:33:52.75	10/14/yy	18:33:54.25	0:01.50	1,954	3			
>GI020IMG	6263	-----	10/14/yy	18:34:22.49	10/14/yy	18:34:24.07	0:01.58	2,416	4			
>GI015SMG	6406	0:00.10	10/14/yy	18:34:25.58	10/14/yy	18:34:27.37	0:01.79	2,673	4			
>GI015LZG	6408	0:00.12	10/14/yy	18:34:28.64	10/14/yy	18:34:30.24	0:01.60	2,673	4			
>GIRB2MTG	6302	0:00.23	10/14/yy	18:34:30.69	10/14/yy	18:34:32.20	0:01.51	175	4			
>SEFI5TEM	6335	0:00.12	10/14/yy	18:34:35.76	10/14/yy	18:34:38.29	0:02.53	4,563	4			
>SEFI5PUM	6380	0:00.19	10/14/yy	18:34:41.65	10/14/yy	18:34:43.41	0:01.76	4,563	4			
>HBRQDCHG	6470	0:00.06	10/14/yy	18:35:00.39	10/14/yy	18:35:03.58	0:03.19	133	5			
>HBRQDFMG	6473	0:00.96	10/14/yy	18:35:04.54	10/14/yy	18:35:09.25	0:04.71	133	5			
>GISCAFOG	6511	0:02.57	10/14/yy	18:35:12.00	10/14/yy	18:35:14.62	0:02.62	48	5			
>HBCB1TRG	6283	0:04.65	10/14/yy	18:35:19.27	10/14/yy	18:35:22.12	0:02.85	567	5			
>HBCB1MFG	6099	0:03.25	10/14/yy	18:35:25.37	10/14/yy	18:35:29.07	0:03.70	567	5			
>HBZE0FAG	6584	0:00.04	10/14/yy	18:35:39.78	10/14/yy	18:35:41.34	0:01.56	33	6			
>GI035MFG	6588	0:00.38	10/14/yy	18:35:41.72	10/14/yy	18:35:43.74	0:02.02	1,638	6			
>HBZE0FOG	6606	0:00.06	10/14/yy	18:35:45.13	10/14/yy	18:35:55.49	0:10.36	33	6			
>GI015RVG	6642	0:00.06	10/14/yy	18:36:01.50	10/14/yy	18:36:03.02	0:01.52	2,673	7			
>GI010U2G	6641	0:00.07	10/14/yy	18:36:08.50	10/14/yy	18:36:10.35	0:01.85	5,238	7			
>SBSDGMAG	6650	0:00.05	10/14/yy	18:36:19.98	10/14/yy	18:36:21.53	0:01.55	1,687	8			

\*\*\* END OF REPORT SASSHR21 \*\*\*

**CYCLE**

Identifies the cycle number of the job.

**blank space right of CYCLE**

Identifies a job that was submitted before the first reported cycle started.

## Job Non-Submission Analysis Report SASSHR22

The Job Non-Submission Analysis report displays information about when jobs were submitted and the reasons that a job is passed over for submission.

SASSHR22		CA-7 JOB NON-SUBMISSION ANALYSIS						01/06/yy	13:46	PAGE	1	
JOB NAME	JOB #	DATE MOVED TO	TIME REQUEST QUEUE	DATE MOVED TO	TIME READY QUEUE	DATE <----	TIME SUBMITTED	----	TOTAL TIMES NOT SUB'D	# WLB NOT SUBMITTED	# VRM NOT SUBMITTED	# IAS INACTIVE
CA07XX01	7	01/05/yy	13:51:02.52	01/05/yy	13:53:07.16	01/05/yy	13:53:07.29		0	0		
CA07XX08	8	01/05/yy	13:51:08.43	01/05/yy	13:53:51.93	01/05/yy	13:53:52.44		0	0		
BDBR14	11	01/05/yy	15:05:28.16	01/05/yy	15:05:28.90	01/05/yy	15:05:29.24		0	0		
NOSUB1	12	01/05/yy	15:07:57.58	01/05/yy	15:07:57.97	01/05/yy	15:10:14.99		4	0		
		LAST VRM= CRQ (A) RESOURCE1										
NOSUB1	15	01/05/yy	15:17:39.97	01/05/yy	15:17:40.23	01/05/yy	15:18:10.30		1	0		
		LAST VRM= CRQ (A) RESOURCE1										
NOSUB2	20	01/05/yy	15:26:36.54	01/05/yy	15:26:36.98	01/05/yy	15:30:21.33		7	0		
		LAST VRM= CRQ (A) RESOURCE1										
NOSUB2	21	01/05/yy	15:32:56.66	01/05/yy	15:32:56.87	01/05/yy	15:34:43.47		7	1		
		LAST WLB= CLASS BARRIER										
		LAST VRM= CRQ (A) RESOURCE2										
*** END OF REPORT SASSHR22 ***												

This report contains the following fields:

### JOB NAME

Identifies the CA WA CA 7 Edition job name.

### JOB #

Identifies the CA WA CA 7 Edition job number.

### DATE MOVED TO REQUEST QUEUE

Identifies the date the job was moved to the request queue.

### TIME MOVED TO REQUEST QUEUE

Identifies the time the job was moved to the request queue.

### DATE MOVED TO READY QUEUE

Identifies the date the job was moved to the ready queue.

### TIME MOVED TO READY QUEUE

Identifies the time the job was moved to the ready queue.

**DATE SUBMITTED**

Identifies the date the job was submitted.

**TIME SUBMITTED**

Identifies the time the job was submitted.

**TOTAL TIMES NOT SUB'D**

Identifies the total number of times the job was passed over for submission by WLB and VRM.

**# WLB NOT SUBMITTED**

Identifies the number of times the job was passed over for submission due to WLB criteria.

**# VRM NOT SUBMITTED**

Identifies the number of times the job was passed over for submission due to VRM criteria.

**# IAS INACTIVE**

Identifies the number of times the job was passed over for submission due to CA IAS not being active.

**LAST WLB**

Identifies the last reason that WLB passed over the job.

**LAST VRM**

Identifies the last reason that WLB passed over the job.

## Job Submission Activity Report SASSHR23

The Job Submission Activity report displays information about the job submission activity for each job in the report period.

SASSHR23		CA-7 JOB SUBMISSION ACTIVITY											03/02/yy	13:57	PAGE	1
JOB NAME	JOB NUM	MCNT->0 DATE	MCNT->0 TIME	TIME SUBMIT COMPLETE	TIME TO RDYQ	EVAL DWELL	OUTPUT DWELL	SUBM DWELL	AV TIME TO RDYQ	AV EVAL DWELL	AV OUTP DWELL	AV SUBM DWELL	SCT NAME			
CA07XPQ1	416	02/27/yy	09:04:22.36	09:04:23.21	0:00.06	0:00.36	0:00.43	0:00.79	0:00.06	0:00.36	0:00.43	0:00.79	S001			
CA07XPQA	415	02/27/yy	09:04:28.86	09:04:28.93	0:00.02	0:00.01	0:00.04	0:00.05	0:00.04	0:00.18	0:00.23	0:00.42	S001			
CA07XPQ2	418	02/27/yy	09:07:29.58	09:07:29.65	0:00.03	0:00.00	0:00.04	0:00.04	0:00.03	0:00.12	0:00.17	0:00.29	S001			
CA07XPQ3	419	02/27/yy	09:07:30.73	09:07:30.93	0:00.01	0:00.03	0:00.16	0:00.19	0:00.03	0:00.10	0:00.16	0:00.26	S001			
CA07XPQB	420	02/27/yy	09:08:09.47	09:08:09.52	0:00.01	0:00.01	0:00.03	0:00.04	0:00.02	0:00.08	0:00.14	0:00.22	S001			
CA07XPQ4	426	02/27/yy	09:11:40.09	09:11:40.22	0:00.02	0:00.03	0:00.08	0:00.11	0:00.02	0:00.07	0:00.13	0:00.20	S001			
CA07XPQ6	427	02/27/yy	09:11:40.29	09:11:40.36	0:00.01	0:00.02	0:00.04	0:00.06	0:00.02	0:00.06	0:00.11	0:00.18	S001			
CA07XPQ5	428	02/27/yy	09:13:00.67	09:13:00.71	0:00.00	0:00.01	0:00.03	0:00.04	0:00.02	0:00.05	0:00.10	0:00.16	S001			
CA07XPQ7	429	02/27/yy	09:13:00.90	09:13:01.14	0:00.01	0:00.02	0:00.21	0:00.23	0:00.01	0:00.05	0:00.11	0:00.17	S001			
CA07XPQI	431	02/27/yy	09:14:10.89	09:14:10.93	0:00.00	0:00.02	0:00.02	0:00.04	0:00.01	0:00.05	0:00.10	0:00.15	S001			
JOBUNI02	435	02/27/yy	09:22:16.86	09:22:17.03	0:00.00	0:00.01	0:00.16	0:00.17	0:00.01	0:00.04	0:00.11	0:00.16	S001			
JOBUNI19	441	02/27/yy	09:56:56.63	09:56:58.32	0:00.03	0:00.05	0:01.61	0:01.66	0:00.01	0:00.04	0:00.23	0:00.28	S001			
JOBUNI19	442	02/27/yy	10:03:30.56	10:03:31.72	0:00.01	0:00.03	0:01.12	0:01.15	0:00.01	0:00.04	0:00.30	0:00.35	S001			
JOBUNI19	443	02/27/yy	10:49:28.72	10:49:28.89	0:00.00	0:00.03	0:00.14	0:00.17	0:00.01	0:00.04	0:00.29	0:00.33	S001			
CA75CLEN	444	02/27/yy	13:05:54.31	13:05:55.50	0:00.02	0:00.11	0:01.06	0:01.17	0:00.01	0:00.04	0:00.34	0:00.39	S001			
CA75XX01	445	02/27/yy	13:10:37.50	13:10:38.49	0:00.01	0:00.01	0:00.97	0:00.98	0:00.01	0:00.04	0:00.45	0:00.49	S001			
CA75XX08	446	02/27/yy	13:10:40.27	13:10:40.62	0:00.00	0:00.01	0:00.34	0:00.35	0:00.01	0:00.04	0:00.44	0:00.48	S001			
CA75XX02	447	02/27/yy	13:10:48.46	13:10:48.70	0:00.03	0:00.07	0:00.14	0:00.21	0:00.01	0:00.04	0:00.43	0:00.47	S001			
CA75XX03	448	02/27/yy	13:10:48.40	13:10:48.75	0:00.12	0:00.05	0:00.18	0:00.23	0:00.01	0:00.04	0:00.42	0:00.46	S002			
CA75XX04	450	02/27/yy	13:10:48.65	13:10:50.29	0:00.02	0:00.03	0:01.59	0:01.62	0:00.01	0:00.04	0:00.47	0:00.51	S003			
CA75XX09	451	02/27/yy	13:10:48.81	13:10:50.29	0:00.03	0:00.01	0:01.44	0:01.45	0:00.01	0:00.04	0:00.51	0:00.55	S001			
CA75XX05	453	02/27/yy	13:11:01.48	13:11:01.58	0:00.02	0:00.03	0:00.05	0:00.08	0:00.01	0:00.04	0:00.49	0:00.53	S002			
CA75XX10	449	02/27/yy	13:11:01.50	13:11:01.58	0:00.00	0:00.03	0:00.05	0:00.08	0:00.01	0:00.04	0:00.47	0:00.51	S001			
CA75XX06	452	02/27/yy	13:11:11.66	13:11:13.23	0:00.01	0:00.00	0:01.56	0:01.56	0:00.01	0:00.03	0:00.51	0:00.55	S001			
CA75XX07	454	02/27/yy	13:11:21.61	13:11:21.67	0:00.00	0:00.01	0:00.05	0:00.06	0:00.01	0:00.03	0:00.49	0:00.53	S001			
*** END OF REPORT SASSHR23 ***																

**JOB NAME**

Identifies the CA WA CA 7 Edition job name.

**JOB NUM**

Identifies the CA WA CA 7 Edition job number.

**MCNT->0 DATE**

Identifies the date that the master requirement count for this job became zero.

**MCNT->0 TIME**

Identifies the time of day that the master requirement count for this job became zero.

**TIME SUBMIT COMPLETE**

Identifies the time of day submission output processing complete for this job.

**TIME TO RDYQ**

Identifies the length of interval between the time that the master requirement count became zero and time this job moved to the ready queue.

**EVAL DWELL**

Identifies the length of interval between the time that the job moved to the ready queue and the time that CA WA CA 7 Edition began submission output processing for the job.

**OUTPUT DWELL**

Identifies the length of interval between time submission output processing for job began and time that processing ended.

**SUBM DWELL**

Identifies the sum of EVAL DWELL and OUTPUT DWELL.

**AV TIME TO RDYQ**

Identifies the average value of TIME TO RDYQ for all jobs in reporting period up to and including this one.

**AV EVAL DWELL**

Identifies the average value of EVAL DWELL for all jobs in reporting period up to and including this one.

**AV OUTP DWELL**

Identifies the average value of OUTPUT DWELL for all jobs in reporting period up to and including this one.

**AV SUBM DWELL**

Identifies the average value of SUBM DWELL for all jobs in reporting period up to and including this one.

**SCT NAME**

Identifies the name of the thread handling submission of the job. The range is SO01 - SO15.

## Job Submission Output Activity Report SASSHR24

The Job Submission Output Activity report displays information about the CA WA CA 7 Edition job submission output process.

## Detail Section

The main body of the Job Submission Output Activity report provides detailed information about the status of the submission output functions for each job submitted during the report period.

SASSHR24		CA-7 JOB SUBMISSION OUTPUT ACTIVITY								03/02/yy	14:09	PAGE	1
JOB NAME	JOB NUM	SELECT DATE	SELECT TIME	OUTPUT COMPLETE	DISP DWELL	MOD DWELL	PROC DWELL	POST DWELL	TOTAL DWELL	SELECT DWELL	#BUSY	OUTPUT TYPE	SCT NAME
CA07XPQ1	00416	02/27/yy	09:04:22.77	09:04:23.21	0:00.01	0:00.42	0:00.00	0:00.01	0:00.44			XPJOB	S001
CA07XPQA	00415	02/27/yy	09:04:28.89	09:04:28.93	0:00.00	0:00.04	0:00.00	0:00.00	0:00.04			XPJOB	S001
CA07XPQ2	00418	02/27/yy	09:07:29.61	09:07:29.65	0:00.00	0:00.03	0:00.01	0:00.00	0:00.04			XPJOB	S001
CA07XPQ3	00419	02/27/yy	09:07:30.76	09:07:30.93	0:00.01	0:00.01	0:00.01	0:00.14	0:00.17			XPJOB	S001
CA07XPQB	00420	02/27/yy	09:08:09.49	09:08:09.52	0:00.00	0:00.02	0:00.01	0:00.00	0:00.03			XPJOB	S001
CA07XPQ4	00426	02/27/yy	09:11:40.12	09:11:40.22	0:00.02	0:00.05	0:00.03	0:00.00	0:00.10			XPJOB	S001
CA07XPQ6	00427	02/27/yy	09:11:40.31	09:11:40.36	0:00.01	0:00.02	0:00.02	0:00.00	0:00.05			XPJOB	S001
CA07XPQ5	00428	02/27/yy	09:13:00.68	09:13:00.71	0:00.00	0:00.03	0:00.00	0:00.00	0:00.03			XPJOB	S001
CA07XPQ7	00429	02/27/yy	09:13:00.92	09:13:01.14	0:00.01	0:00.03	0:00.18	0:00.00	0:00.22			XPJOB	S001
CA07XPQI	00431	02/27/yy	09:14:10.90	09:14:10.93	0:00.01	0:00.01	0:00.01	0:00.00	0:00.03			XPJOB	S001
JOBUNI02	00435	02/27/yy	09:22:16.87	09:22:17.03	0:00.00	0:00.08	0:00.08	0:00.00	0:00.16			INTRDR	S001
JOBUNI19	00441	02/27/yy	09:56:56.71	09:56:58.32	0:00.00	0:00.03	0:01.58	0:00.00	0:00.61			INTRDR	S001
JOBUNI19	00442	02/27/yy	10:03:30.59	10:03:31.72	0:00.01	0:00.01	0:01.11	0:00.00	0:00.13			INTRDR	S001
JOBUNI19	00443	02/27/yy	10:49:28.75	10:49:28.89	0:00.00	0:00.03	0:00.11	0:00.00	0:00.14			INTRDR	S001

Each detail line begins with the name of the submitted job (JOB NAME) followed by its CA WA CA 7 Edition job number (JOB NUM).

The detail line reports the date and time of day when CA WA CA 7 Edition selected the job for submission under the columns headed SELECT DATE and SELECT TIME.

OUTPUT COMPLETE is the time of day when all CA WA CA 7 Edition submission output activity for the job is finished.

The next four columns provide a detailed breakdown of submission output activities that occur within the interval that begins when the job is selected and ends when output for the job is complete. The duration of that interval is reported under the column headed: TOTAL DWELL.

The duration of the interval between the select date and time and the date and time CA WA CA 7 Edition began output processing for the job is reported in the DISP DWELL column.

The next column is MOD DWELL. During the MOD DWELL interval, CA WA CA 7 Edition prepares the job for final output processing. For CPU jobs, this preparation includes JOB statement modification needed for tracking and insertion of CA WA CA 7 Edition comment statements. For XPJOB jobs, this preparation includes resolution of the destination node. Optional changes to the data of the job include: invocation of CA Driver, user exit processing, and for CPU jobs, insertion of LOAD step and RMS step.

The next column reports the duration of the PROC DWELL interval. For the CPU jobs, PROC DWELL includes the time that it took to do the following actions:

- Open the internal reader.
- Write all the JCL to the internal reader.
- Close the internal reader.
- Retrieve the number that JES assigned to the job.

For the XPJOB jobs, this time includes the following :

- Create the buffer that is sent to the execution node.
- Sending the data.
- Receive a positive response that the data was sent.

During the POST DWELL interval, CA WA CA 7 Edition does the following:

- Updates the ready queue to indicate that the job is submitted.
- Writes to the CA WA CA 7 Edition log.
- Sends messages about the status of the job to indicated stations.

An "output busy condition" results when a job is ready to select but no output thread is available to handle it. The number of output busy conditions tallied before the selection of a job is reported under the column: BUSY#. This counter is reset to zero when a job is selected.

The amount of time that the submission selection thread waited before selecting a job is reported in the SELECT DWELL column.

OUTPUT TYPE identifies the submission destination of the job. Supported output types include the following: INTRDR, SUBMDS, XPJOB, and AGENT.

SCT NAME identifies the thread handling submission of the job.

## Summary Section

The last section of the report is a summary of submission output activity by thread.

SASSHR24		CA-7 JOB SUBMISSION OUTPUT ACTIVITY												03/02/yy		14:09		PAGE		19	
SCT NAME	# JOBS	TOTAL			TOTAL			TOTAL			TOTAL			AVERAGE		AVERAGE		AVERAGE			
		DISP DWELL	% SCT	% TOT	MOD DWELL	% SCT	% TOT	PROC DWELL	% SCT	% TOT	POST DWELL	% SCT	% TOT	DISP DWELL	MOD DWELL	PROC DWELL	POST DWELL				
SASSS001	00043	0:00.51	00.6	07.5	0:02.85	03.4	09.4	1:16.51	92.4	07.6	0:02.88	03.4	01.4	0:00.01	0:00.06	0:01.77	0:00.06				
SASSS002	00040	0:00.42	00.5	06.1	0:00.79	00.9	02.6	1:17.61	92.6	07.7	0:04.91	05.8	02.4	0:00.01	0:00.01	0:01.94	0:00.12				
SASSS003	00038	0:00.44	00.5	06.4	0:00.98	01.1	03.2	1:16.36	91.2	07.6	0:05.91	07.0	02.9	0:00.01	0:00.02	0:02.00	0:00.15				
SASSS004	00037	0:00.46	00.5	06.7	0:01.99	02.3	06.5	1:14.74	89.6	07.4	0:06.16	07.3	03.0	0:00.01	0:00.05	0:02.02	0:00.16				
SASSS005	00037	0:00.41	00.4	06.0	0:02.09	02.4	06.8	1:12.18	85.9	07.2	0:09.28	11.0	04.6	0:00.01	0:00.05	0:01.95	0:00.25				
SASSS009	00032	0:00.24	00.2	03.5	0:01.61	01.9	05.3	1:07.87	81.5	06.8	0:13.52	16.2	06.7	0:00.00	0:00.05	0:02.12	0:00.42				
SASSS010	00030	0:01.53	01.8	22.5	0:01.45	01.7	04.7	1:02.08	76.3	06.2	0:16.29	20.0	08.1	0:00.05	0:00.04	0:02.06	0:00.54				
SASSS011	00029	0:00.24	00.2	03.5	0:01.81	02.2	05.9	1:01.54	75.4	06.1	0:18.01	22.0	08.9	0:00.00	0:00.06	0:02.12	0:00.62				
SASSS012	00028	0:00.24	00.3	03.5	0:03.87	04.8	12.7	0:58.64	73.4	05.8	0:17.11	21.4	08.5	0:00.00	0:00.13	0:02.09	0:00.61				
SASSS013	00028	0:00.29	00.3	04.2	0:02.35	02.7	07.7	0:58.21	68.9	05.8	0:23.53	27.8	11.7	0:00.01	0:00.08	0:02.07	0:00.84				
SASSS014	00027	0:00.22	00.2	03.2	0:03.62	04.2	11.9	0:56.44	66.9	05.6	0:24.07	28.5	12.0	0:00.00	0:00.13	0:02.09	0:00.89				
SASSS015	00025	0:00.22	00.3	03.2	0:01.24	01.7	04.0	0:48.35	67.7	04.8	0:21.58	30.2	10.7	0:00.00	0:00.04	0:01.93	0:00.86				
*TOTAL*	00499	0:06.80	00.5	0:30.30	02.4	>9.59.99	80.7	3:20.12	16.2	0:00.01	0:00.06	0:01.99	0:00.40								
Duration of report interval		: 1:25.10																			
Total busy conditions for report interval		: 499																			
Total select dwell for report interval		: 1:22.30																			

The summary displays a row for each submission output thread that was active during the report period. The number of submission output threads in this summary depends on the settings of the PSP and MAXSUBOUT keywords on the OPTIONS statement in the initialization file. PSP=Y and MAXSUBOUT=15 were the values in effect for the report period in the preceding example.

The first column, SCT NAME, identifies the job submission output thread and the next column, # JOBS, reports the number of jobs that the thread handled.

The TOTAL DISP DWELL column reports the total DISP DWELL value for that thread. This value is the sum of the DISP DWELL values of all the jobs submitted by this thread during the report period. The TOTAL DISP DWELL for that thread as a portion of the total time used by that thread is reported in the % SCT column. The TOTAL DISP DWELL as a portion of the TOTAL DISP DWELL for all threads is reported in the % TOT column.

The TOTAL MOD DWELL column reports the total MOD DWELL value for that thread. This value is the sum of the MOD DWELL values of all the jobs submitted by this thread during the report period. The TOTAL MOD DWELL for that thread as a portion of the total time used by that thread is reported in the % SCT column. The TOTAL MOD DWELL as a portion of the TOTAL MOD DWELL for all threads is reported in the % TOT column.

The TOTAL PROC DWELL column reports the total PROC DWELL value for that thread. This value is the sum of the PROC DWELL values of all the jobs submitted by this thread during the report period. The TOTAL PROC DWELL for that thread as a portion of the total time used by that thread is reported in the % SCT column. The TOTAL PROC DWELL as a portion of the TOTAL PROC DWELL for all threads is reported in the % TOT column.

The TOTAL POST DWELL column reports the total POST DWELL value for that thread. This value is the sum of the POST DWELL values of all the jobs submitted by this thread during the report period. The TOTAL POST DWELL for that thread as a portion of the total time used by that thread is reported in the % SCT column. The TOTAL POST DWELL as a portion of the TOTAL POST DWELL for all threads is reported in the % TOT column.

The next columns report AVERAGE DISP DWELL, AVERAGE MOD DWELL, AVERAGE PROC DWELL, and AVERAGE POST DWELL values for each output thread.

Following the rows for the output threads is a row that reports total values for all relevant categories.

The report concludes with three lines that report the following information:

- Duration of the submission activity interval.
- Number of busy conditions encountered
- Total time job submission waited on an output thread that was measured during the report period.

The submission activity interval spans the select date/time of the first job in the report period and the output complete time for the last job in the report period.

## Metrics Report SASSHR25

The Metrics report displays performance-related information about CA WA CA 7 Edition for a specified time interval. The From and Thru date/time fields in the control statement specify the time interval with a maximum time interval of 31 days. The report consists of several sections each with a common header section. Some data within the report is normalized using a floating scale either for the number of jobs that are submitted or for the number of transactions executed. The sections of the report are the following items:

- z/OS Data
- JES Data
- CA 7 SCT Data
- Waiting for Resources Data
- zIIP Processing Data
- Submission Selection Data
- CA Datacom/AD Information

When running SASSHR25, ensure the STEPLIB and log input data match (that is, Version 12.0 STEPLIB and Version 12.0 log data). The report is not backward compatible with the log data of a prior release.

## Optional Features

SASSHR25 has two optional features that are requested through control statement options. If the control statement option or default value requests file creation, the JCL must contain a related DD statement for file creation.

- Create Compare File.

If requested, an output file containing the report data is created. The data is written to the data set for DD statement HR25REPT. Two of these output files from separate runs of SASSHR25 are used as input to the SASSHC25 Compare Utility. The utility provides a side-by-side comparison of the two reports. If compare file creation is requested without an HR25REPT DD statement in the JCL, a metrics report is generated and written to SYSOUT but no compare file is created.

- Create comma-separated value (CSV) file.

If requested, an output file containing report data is created in CSV format. The data is written to the data set for DD statement HR25CSV. Commas separate fields in each record. The CSV file contains either one or two records. The file contains a header record and a data record or only a data record. The data record only option is useful when you are combining multiple CSV files into one file and you want one header record with multiple data records following it. The header record contains labels for each of the fields in the data record. The data record contains the values from the SASSHR25 report that are related to the labels in the header record. Not all report data is suitable for the CSV file. Data for WLM service class and JES information is not included in the CSV file. This data set is suitable for importing into spreadsheet software such as Microsoft Excel®.

The following table describes actions for combinations of the file create options and DD statement presence. The WTO warning message referenced in the table is the following message:

**HR25-13 xxxxxxxx DD statement missing, file not created, processing continues**

Option Description	Option Value	Related DD Present in JCL	Related DD	WTO Warning Message Issued	File Created	Metrics Report Produced
Create Compare File	Y	Yes	HR25REPT	No	Yes	Yes
Create Compare File	Y	No	HR25REPT	Yes	No	Yes
Create Compare File	N	Yes	HR25REPT	No	No	Yes
Create Compare File	N	No	HR25REPT	No	No	Yes
Create CSV File	H	Yes	HR25CSV	No	Yes	Yes
Create CSV File	H	No	HR25CSV	Yes	No	Yes
Create CSV File	Y	Yes	HR25CSV	No	Yes	Yes

Option Description	Option Value	Related DD Present in JCL	Related DD	WTO Warning Message Issued	File Created	Metrics Report Produced
Create CSV File	Y	No	HR25CSV	Yes	No	Yes
Create CSV File	N	Yes	HR25CSV	No	No	Yes
Create CSV File	N	No	HR25CSV	No	No	Yes

## Common Header

Each section of the report contains common header data.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT	10/26/yy 10:14	PAGE 2
	JES Subsystem: JES2		
Interval Start	20yy.290 16:00:03		
Interval End	20yy.290 23:59:08		
Interval Length	0 days 07:59:05		
# CA7 Restarts	0		

This section contains the following fields:

### Interval Start

Specifies the date and time of the first Statistics/Metrics log record within the requested time frame.

### Interval End

Specifies the date and time of the last Statistics/Metrics log record within the requested time frame.

### Interval Length

Specifies the difference between the Interval Start date/time and the Interval End date/time.

### # CA7 Restarts

Specifies the number of times CA WA CA 7 Edition was restarted during the time interval.

## z/OS Section

The z/OS section contains information related to the CA WA CA 7 Edition address space.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT		11/07/yy 06:26	PAGE 1
z/OS System Data				
Interval Start	20yy.290 16:00:03			
Interval End	20yy.290 23:59:08			
Interval Length	0 days 07:59:05			
# CA7 Restarts	0			
-----Interval Values-----				
CPU Used				
Task	000:00:00.00000			
Job Task	000:00:12.78900			
SRB	000:00:00.59351			
Preemptable SRB	000:00:00.33989			
Total CPU used	000:00:13.72240			
I/O Count				
HMM Storage <16M	49,054			
HMM Storage >16M	5,792K	20yy.290 13:30:04		
	34,892K	20yy.290 13:33:04		
Dispatch Priority				
Average	EC (236)			
HMM	F4 (244)	20yy.290 16:26:05		
LWM	D8 (216)	20yy.290 21:04:01		
WLM Service Class	2 changes	Date/Time		
ONLTEST		20yy.290 16:00:03		
WLMTEST		20yy.290 18:00:02		
ONLTEST		20yy.290 18:01:03		
Jobs Submitted	401			
Averages for	10 jobs			
Task	000:00:00.00000			
Job Task	000:00:00.31892			
SRB	000:00:00.01480			
Preemptable SRB	000:00:00.00847			
Total CPU used	000:00:00.34220			
I/O Count	1,223			
Terminal Transactions (txn)				
Total #	29			
API #	0			
API %	0.00			
Averages for	1 terminal txn			
Task	000:00:00.00000			
Job Task	000:00:00.44100			
SRB	000:00:00.02046			
Preemptable SRB	000:00:00.01172			
Total CPU used	000:00:00.47318			
I/O Count	1,691			

This section contains the following fields:

**CPU Used**

Category heading identifying the next five fields as containing CPU time.

**Task**

Specifies the total task time for the interval listed. Data is obtained from the ASCB control block (ASCBEATT).

**Job Task**

Specifies the total job task time for the interval listed. Data is obtained from the ASCB control block (ASCBEJST).

**SRB**

Specifies the total SRB time for the interval listed. Data is obtained from the ASCB control block (ASCBSRBT).

**Preemptable SRB**

Specifies the total preemptable SRB task time for the interval listed. Data is obtained from the ASSB control block (ASSBPHTM).

**Total CPU used**

Specifies the total CPU time for the interval listed. The value is the sum of the four previous fields. For reporting, all CPU times are truncated at five decimal places. The CPU time source fields kept in storage and written to the log file contain more precision than five decimal places. The full precision source fields are added to calculate the Total CPU used. For this reason, the value on the report does not exactly match the sum of the fields that the report displays.

**I/O Count**

Specifies the total I/O count for the interval listed. Data is obtained from the ASCB control block (ASCBIOSX).

**HWM Storage <16M**

Specifies the highest amount of storage (High-Water-Mark) below the 16M line that was recorded on a metrics log record. Also specifies the date and time when the HWM was recognized. The HWM value and timestamp are kept in storage beginning shortly after CA WA CA 7 Edition start-up. The in storage values are written to the metrics log records. For this reason, the report can show an HWM date and time before the report interval. Data is obtained from the LDA control block (LDALOAL).

**HWM Storage >16M**

Specifies the highest amount of storage (High-Water-Mark) above the 16M line that was recorded on a metrics log record. Also specifies the date and time when the HWM was recognized. The HWM value and timestamp are kept in storage beginning shortly after CA WA CA 7 Edition start-up. The in storage values are written to the metrics log records. For this reason, the report can show an HWM date and time before the report interval. Data is obtained from the LDA control block (LDAELOAL).

**Dispatch Priority**

Category heading identifying the next three fields as containing dispatch priority information.

**Average**

Specifies the average dispatching priority for the interval listed. The average is obtained by summing the dispatch priority from all metrics log records within the time interval and then dividing by the number of metrics log records. Data is displayed in both hex and decimal formats. Data is obtained from the ASCB control block (ASCB DP).

**HWM**

Specifies the highest dispatching priority that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the HWM was recorded. Data is displayed in both hex and decimal formats. Data is obtained from the ASCB control block (ASCB DP).

**LWM**

Specifies the lowest dispatching priority that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the HWM was recorded. Data is displayed in both hex and decimal formats. Data is obtained from the ASCB control block (ASCB DP).

**WLM Service Class**

Specifies the first WLM service class recorded on a metrics log record after the beginning of the interval listed, followed by any changes that were made during the interval listed. Also specifies the date and time of the log record when the service class name was recorded. Data is obtained from SYSEVENT macro (RASDCL). The WLM Service Class header line also specifies the total number of changes that were recognized during the specified time interval. Only the first ten changes are listed on the report.

**Jobs Submitted**

Specifies the total number of jobs submitted during the interval listed as recorded on statistic log records.

**Averages for *nnnnn* jobs**

Category heading identifying the next six fields as containing data that has been normalized for *nnnnn* number of jobs submitted. *nnnnn* is a floating scale value determined by the previous Jobs Submitted field. The normalized value in the next six fields is calculated by dividing the corresponding field value for the entire interval by the Jobs Submitted value and then multiplying the quotient by the scale value. For example, using Job Task, the calculation would be  $(000:00:12.78900/401)*10=000:00:00.31892$

**Task**

Specifies the task time normalized for the scale number of jobs. See the preceding Averages for *nnnnn* jobs.

**Job Task**

Specifies the job task time normalized for the scale number of jobs. See the preceding Averages for *nnnnn* jobs.

**SRB**

Specifies the SRB time normalized for the scale number of jobs. See the preceding Averages for *nnnnn* jobs.

**Preemptable SRB**

Specifies the preemptable SRB time normalized for the scale number of jobs. See the preceding Averages for *nnnnn* jobs.

**Total CPU used**

Specifies the total CPU time normalized for the scale number of jobs. See the preceding Averages for *nnnnn* jobs.

**I/O Count**

Specifies the I/O count normalized for the scale number of jobs. See the preceding Averages for *nnnnn* jobs.

**Terminal Transactions (txn)**

Category heading identifying the next three fields as containing terminal transactions data.

**Total #**

Specifies the total number of terminal transactions executed during the interval listed as recorded on statistic log record.

**API #**

Specifies the total number of API terminal transactions executed during the interval listed as recorded on statistic log record.

**API %**

Specifies the percentage of terminal transactions that were API terminal transactions. Obtained by dividing API Trans by Total Trans and multiplying by 100.

**Averages for *nnnn* terminal txn**

Category heading identifying the next six fields as containing data that has been normalized for *nnnn* number of terminal transactions. *nnnn* is a floating scale value determined by the previous '# terminal transactions' field. The normalized value in the next six fields is calculated by dividing the corresponding field value for the entire interval by the '# terminal transactions' value and then multiplying the quotient by the scale value. For example, using 'Job Task', the calculation would be  $(000:00:12.78900/29)*1=000:00:00.44100$

**Task**

Specifies the task time normalized for the scale number of terminal transactions. See the preceding Averages for *nnnn* terminal transactions.

**Job Task**

Specifies the job task time normalized for the scale number of terminal transactions. See the preceding Averages for *nnnn* terminal transactions.

**SRB**

Specifies the SRB time normalized for the scale number of terminal transactions. See the preceding Averages for *nnnn* terminal transactions.

**Preemptable SRB**

Specifies the preemptable SRB time normalized for the scale number of terminal transactions. See the preceding Averages for *nnnnn* terminal transactions.

**Total CPU used**

Specifies the total CPU time normalized for the scale number of terminal transactions. See the preceding Averages for *nnnnn* terminal transactions.

**I/O Count**

Specifies the I/O count normalized for the scale number of terminal transactions. See the preceding Averages for *nnnnn* terminal transactions.

**JES Section**

The JES section contains information related to a JESPLEX. Initial values are listed for each JES system in the JESPLEX followed by any changes that occurred during the time interval. The maximum number of changes that are recorded is equal to eight times the number of JES systems in the JESPLEX. Calls to the JES subsystem interface obtain all the JES data.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT				11/07/yy 06:26	PAGE	2
	JES Subsystem: JES2						
Interval Start	20yy.290 16:00:03						
Interval End	20yy.290 23:59:08						
Interval Length	0 days 07:59:05						
# CA7 Restarts	0						
JES Name	Version	Status	Min	Max	Hold	TimeStamp	
-----							
*CA31	z/OS1.12	ACTIVE	50	500	50	20yy.290 16:00:03	
CA11	z/OS1.12	ACTIVE	50	500	50	20yy.290 16:00:03	
----- There were 0 JES changes -----							

This section contains the following fields:

**JES name**

Specifies the system (member) name belonging to the JESPLEX. An \* before the name indicates this system is the local JES system where CA WA CA 7 Edition executes.

**Version**

Specifies the version of the JES system at the time of the recorded metrics log record.

**Status**

Specifies the status of the JES system at the time of the recorded metrics log record.

**Min**

Specifies the minimum dormancy time in hundredths of seconds for the JES system at the time of the recorded metrics log record (JPX2MIND).

**Max**

Specifies the maximum dormancy time in hundredths of seconds for the JES system at the time of the recorded metrics log record (JPX2MAXD).

**Hold**

Specifies the hold value in hundredths of seconds for the JES system at the time of the recorded metrics log record (JPX2HOLD).

**TimeStamp**

Specifies the date and time that CA WA CA 7 Edition recorded the JES information or change.

**There were *nnnn* JES changes**

Specifies the number of JES changes that were recorded on metrics log records during the specified time interval. Changes are listed after this line in the same format as the initial JES values.

## SCT Section

The SCT section contains information related to CA WA CA 7 Edition System Control Tasks (SCT). The SCTs represent threads running in the CA WA CA 7 Edition address space.

SASSHR25		CA WORKLOAD AUTOMATION METRICS REPORT		11/07/yy 06:26	PAGE 3
CA 7 SCT Data					
Interval Start	20yy.290 16:00:03				
Interval End	20yy.290 23:59:08				
Interval Length	0 days 07:59:05				
# CA7 Restarts	0				
SCT	Description	CPU Time	% of total		
-----					
SASSDAIO	Queue I/O	000:00:00.00433	0.07		
SASSCHDO	Output Msg Scheduler	000:00:00.00641	0.11		
SASSLMGR	Line Manager	000:00:00.02792	0.48		
SASSHALT	Shutdown Processor	000:00:00.00000	0.00		
SASSLOGM	Log Manager	000:00:01.37763	24.00		
SASSCCIL	XPS (CCI) Server Manager	000:00:00.01017	0.17		
SASSBTMG	Subtask Manager	000:00:00.00000	0.00		
SASSCMGR	Communications Manager	000:00:01.27852	22.27		
SASSSMF0	SMF Processor	000:00:01.29451	22.55		
SASSSCNC	Scan completed jobs mgr	000:00:00.15981	2.78		
SASSCMP1	Completion Processor (1)	000:00:00.00000	0.00		
SASSCMP2	Completion Processor (2)	000:00:00.19403	3.38		
SASSCMP3	Completion Processor (3)	000:00:00.00264	0.04		
SASSCMP4	Completion Processor (4)	000:00:00.00000	0.00		
SASSCMP5	Completion Processor (5)	000:00:00.00000	0.00		
SASSARF0	ARF Manager	000:00:00.00007	0.00		
SASSSCN0	Schedule Scan Manager	000:00:00.14759	2.57		
SASSCNL	Load (scan) processor	000:00:00.00000	0.00		
SASSJCO	JCL Creation Manager	000:00:00.03479	0.60		
SASSS00	Main Submit Manager	000:00:00.22059	3.84		
SASS001	Submit subtask (1)	000:00:00.06108	1.06		
SASS002	Submit subtask (2)	000:00:00.00000	0.00		
SASS003	Submit subtask (3)	000:00:00.00000	0.00		
SASS004	Submit subtask (4)	000:00:00.00000	0.00		
SASS005	Submit subtask (5)	000:00:00.00000	0.00		
SASS006	Submit subtask (6)	000:00:00.00000	0.00		
SASS007	Submit subtask (7)	000:00:00.00000	0.00		
SASS008	Submit subtask (8)	000:00:00.00000	0.00		
SASS009	Submit subtask (9)	000:00:00.00000	0.00		
SASS010	Submit subtask (10)	000:00:00.00000	0.00		
SASS011	Submit subtask (11)	000:00:00.00000	0.00		
SASS012	Submit subtask (12)	000:00:00.00000	0.00		
SASS013	Submit subtask (13)	000:00:00.00000	0.00		
SASS014	Submit subtask (14)	000:00:00.00000	0.00		
SASS015	Submit subtask (15)	000:00:00.00000	0.00		
SASSCIAS	IAS Interface Manager	000:00:00.04482	0.78		
SASSXTM0	External Terminal Manager	000:00:00.01713	0.29		
SASSTCP0	TCP/IP Interface	000:00:00.02766	0.48		
SASSCHED	Application Scheduler	000:00:00.68364	11.90		
3270V	VTAM Terminals (G)	000:00:00.14642	2.55		
CONSOLE	Console Terminals (G)	000:00:00.00026	0.00		
BSAM	Browse Terminals (G)	000:00:00.00000	0.00		
BATCH	Batch Terminals (G)	000:00:00.00000	0.00		
TRAILER	Trailer Terminals (G)	000:00:00.00000	0.00		
TRX	ARF Terminals (G)	000:00:00.00000	0.00		
CCI	CCI & TCP Terminals (G)	000:00:00.00000	0.00		
*TOTALS*		000:00:05.74013	100.00		

This section contains the following fields:

### SCT

Specifies the name of the System Control Task (SCT) performing the CA WA CA 7 Edition task.

### Description

Specifies a short description of what the SCT manages or processes.

### CPU time

Specifies the CPU time used in the specified time interval by this SCT.

### % of total

Specifies the percentage of the CPU time of this SCT compared to the total used by all SCTs. Obtained by dividing the CPU time of this SCT by the total CPU time and multiplying by 100.

**Note:** For reporting, all CPU times are truncated at five decimal places. The CPU time source fields kept in storage and written to the log file contain more precision than five decimal places. The full precision source fields are added to calculate the Total SCT CPU used. For this reason, the value on the report does not always exactly match the sum of the fields displayed on the report.

## Waiting on Resources Section

The Waiting on Resources section contains information related to jobs waiting submission due to resource availability.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT	11/07/yy 06:26	PAGE 4
Waiting on Resources Data			
Interval Start	20yy.290 16:00:03		
Interval End	20yy.290 23:59:08		
Interval Length	0 days 07:59:05		
# CA7 Restarts	0		
-----Interval Values-----			
Average #jobs in queues	4		
Average #jobs waiting resource	0		
Jobs waiting for VRM			
Average # jobs	0		
HWM # jobs	0	20yy.290 16:00:03	
LWM # jobs	0	20yy.290 16:00:03	
Average # rejects	0		
Jobs waiting for WLB			
Average # jobs	0		
HWM # jobs	0	20yy.290 16:00:03	
LWM # jobs	0	20yy.290 16:00:03	
Average # rejects	0		
Jobs waiting for IAS			
Average # jobs	0		
HWM # jobs	0	20yy.290 16:00:03	
LWM # jobs	0	20yy.290 16:00:03	
Average # rejects	0		

This section contains the following fields:

**Average #jobs in queues**

Specifies the average number of jobs in the request, ready, and active queues for the interval listed. The value is obtained by summing the '#jobs in queues' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**Average #jobs waiting resource**

Specifies the average number of jobs waiting for VRM, WLB, or IAS for submission for the interval listed. The value is obtained by summing the 'Jobs waiting for VRM', 'Jobs waiting for WLB, and 'Jobs waiting for IAS' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**Jobs waiting for VRM**

Category heading identifying the next four fields as containing data related to Virtual Resource Management (VRM) resources.

**Average # jobs**

Specifies the average number of jobs that were waiting for VRM resources for the interval listed. The value is obtained by summing the 'Jobs waiting for VRM' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**HWM # jobs**

Specifies the highest number of jobs that were waiting for VRM resources that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the high water mark (HWM) was recorded.

**LWM # jobs**

Specifies the lowest number of jobs that were waiting for VRM resources that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the low water mark (LWM) was recorded.

**Average # of rejects**

Specifies the average number of times all jobs waiting for submission were rejected due to waiting on VRM resources during the specified time interval. The value is obtained by summing the '# VRM rejects' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**Jobs waiting for WLB**

Category heading identifying the next four fields as containing data related to Workload Balancing (WLB) resources.

**Average # jobs**

Specifies the average number of jobs that were waiting for WLB resources for the interval listed. The value is obtained by summing the 'Jobs waiting for WLB' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**HWM # jobs**

Specifies the highest number of jobs that were waiting for WLB resources that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the HWM was recorded.

**LWM # jobs**

Specifies the lowest number of jobs that were waiting for WLB resources that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the LWM was recorded.

**Average # of rejects**

Specifies the average number of times all jobs waiting for submission were rejected due to waiting on WLB resources during the specified time interval. The value is obtained by summing the '# WLB rejects' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**Jobs waiting for IAS**

Category heading identifying the next four fields as containing data related to Integrated Agent Services (IAS) resources.

**Average # jobs**

Specifies the average number of jobs that were waiting for IAS resources for the interval listed. The value is obtained by summing the 'Jobs waiting for IAS' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**HWM # jobs**

Specifies the highest number of jobs that were waiting for IAS resources that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the HWM was recorded.

**LWM # jobs**

Specifies the lowest number of jobs that were waiting for IAS resources that was recorded on a metrics log record for the interval listed. Also specifies the date and time of the log record when the LWM was recorded.

**Average # of rejects**

Specifies the average number of times all jobs waiting for submission were rejected due to waiting on IAS resources during the specified time interval. The value is obtained by summing the ' # IAS rejects' from all metrics log records within the time interval and then dividing by the number of metrics log records.

## zIIP Section

The zIIP section contains information that is related to CA WA CA 7 Edition usage of zIIP processing. This section contains data with all zeros when zIIP=YES is not specified in the initialization options.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT	07/16/yy 15:42	PAGE	5
zIIP Processing Data				
Interval Start	20yy.196 14:10:01			
Interval End	20yy.196 15:15:03			
Interval Length	0 days 01:05:02			
# CA7 Restarts	0			
-----Interval Values-----				
Agent Job Feedback Subtask				
Total CPU used	0.000000			
TCB CPU	0.000000			
SRB CPU	0.000000			
SRB%	0.00			
CPU eligible zIIP	0.000000			
CPU on normal CP	0.000000			
CPU on zIIP	0.000000			
zIIP%	0.00			
# SRB starts	0			
Switches TCB -> SRB	0			
Switches SRB -> TCB	0			
XCF Communication Subtask				
Total CPU used	0.000000			
TCB CPU	0.000000			
SRB CPU	0.000000			
SRB%	0.00			
CPU eligible zIIP	0.000000			
CPU on normal CP	0.000000			
CPU on zIIP	0.000000			
zIIP%	0.00			
# SRB starts	0			
Switches TCB -> SRB	0			
Switches SRB -> TCB	0			
Submit Subtask 01				
Total CPU used	0.000000			
TCB CPU	0.000000			
SRB CPU	0.000000			
SRB%	0.00			
CPU eligible zIIP	0.000000			
CPU on normal CP	0.000000			
CPU on zIIP	0.000000			
zIIP%	0.00			
# SRB starts	0			
Switches TCB -> SRB	0			
Switches SRB -> TCB	0			
Submit Subtask 02				
Total CPU used	0.000000			
TCB CPU	0.000000			
SRB CPU	0.000000			
SRB%	0.00			
CPU eligible zIIP	0.000000			
CPU on normal CP	0.000000			
CPU on zIIP	0.000000			
zIIP%	0.00			
# SRB starts	0			
Switches TCB -> SRB	0			
Switches SRB -> TCB	0			

This section contains the following fields:

**Agent Job Feedback Subtask**

Category heading identifying the next 11 fields as containing data related to the agent job feedback processing subtask.

**Total CPU used**

Specifies the total CPU time, in seconds, used in the specified time interval.

**TCB CPU**

Specifies the amount of CPU time that was run in TCB mode.

**SRB CPU**

Specifies the amount of CPU time that was run in SRB mode.

**SRB%**

Specifies the percentage of total CPU used that was run in SRB mode.

**CPU eligible zIIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor.

**CPU on normal CP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor, but was run on a regular processor.

**CPU on zIIP**

Specifies the amount of CPU time used that was run on a zIIP processor.

**zIIP%**

Specifies the percentage of zIIP eligible CPU that was run on a zIIP processor.

**# SRB starts**

Specifies the number of times the SRB has been started.

**Switches TCB->SRB**

Specifies the number of times that processing switched from TCB to SRB mode.

**SRB->TCB**

Specifies the number of times that processing switched from SRB to TCB mode.

**XCF Communication Subtask**

Category heading identifying the next 11 fields as containing data related to the XCF communication processing subtask.

**Submit Subtask *nn***

Category heading identifying the next 11 fields as containing data related to the submission processing subtask number *nn*, where *nn* is 01 through the maximum number of output threads, as specified by the MAXSUBOUT initialization keyword (default 5).

## Submission Selection Section

The Submission Selection section contains information that is related to the enhanced job submission selection. This section contains all zeros when SUBSEL=ENH is not specified in the initialization options.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT	07/16/yy 15:42	PAGE 7
Submission Selection Data			
Interval Start	20yy.197 11:50:05		
Interval End	20yy.197 15:42:04		
Interval Length	0 days 03:51:59		
# CA7 Restarts	0		
-----Interval Values-----			
Overview			
Task invocations	12		
Jobs selected	1		
Avg task processing time	000:00:00.00887		
Average task CPU usage	000:00:00.00023		
Total processing time	000:00:00.10654		
Total CPU usage	000:00:00.00287		
Workload Balancing			
Environment modeling count	0		
Average modeling time	000:00:00.00000		
Average modeling CPU usage	000:00:00.00000		
WLB elapsed time	000:00:00.00000		
WLB CPU used	000:00:00.00000		
Candidate Selection			
Database queries	12		
Jobs retrieved	11		
Jobs considered	8		
Average query time	000:00:00.00199		
Average query CPU usage	000:00:00.00008		
Selection elapsed time	000:00:00.02388		
Selection CPU usage	000:00:00.00148		
Negative Requirements			
Jobs with negative rqmts	1		
Negative rqmts read	1		
RDY/ACT Q jobs checked	1		
Neg rqmts not satisfied	0		
Average check time	000:00:00.02442		
Average check CPU usage	000:00:00.00022		
Neg rqmts elapsed time	000:00:00.02442		
Neg rqmts CPU usage	000:00:00.00022		
ASX Virtual Resources			
ASX resources checked	0		
Resources not satisfied	0		
Average check time	000:00:00.02723		
Average check CPU usage	000:00:00.00011		
ASX elapsed time	000:00:00.02723		
ASX CPU usage	000:00:00.00011		
VRM Virtual Resources			
Resources not satisfied	6		
Average check time	000:00:00.00387		
Average check CPU usage	000:00:00.00009		
VRM elapsed time	000:00:00.02324		
VRM CPU usage	000:00:00.00059		

This section contains the following fields:

**Overview**

Category heading identifying the next six fields as containing data related to the overall processing of the enhanced submission selection.

**Task invocations**

Specifies the number of times within the interval that the enhanced submission selection process has started.

**Jobs selected**

Specifies the number of jobs that were successfully selected to be submitted within the interval.

**Avg task processing time**

Specifies the average amount of processing time that one execution of the submission selection process requires to complete.

**Average task CPU usage**

Specifies the average amount of CPU used in one complete execution of the submission selection process.

**Total processing time**

Specifies the total amount of processing time that all invocations of the submission selection process require during the interval.

**Total CPU usage**

Specifies the total amount of CPU used by all invocations of the submission selection process during the interval.

**Workload Balancing**

Category heading identifying the next five fields as containing data related to the workload balancing portion of the enhanced submission selection process.

**Environment modeling count**

Specifies the number of times that the WLB environment was constructed as part of the submission selection process during the interval.

**Average modeling time**

Specifies the average amount of processing time that it takes to model the WLB environment once.

**Average modeling CPU usage**

Specifies the average amount of CPU used to model the WLB environment once.

**WLB elapsed time**

Specifies the total amount of processing time that the WLB portion of the submission selection process takes.

**WLB CPU used**

Specifies the total amount of CPU used by the WLB portion of the submission selection process.

**Candidate Selection**

Category heading identifying the next seven fields as containing data related to the initial job selection portion of the enhanced submission selection process.

**Database queries**

Specifies the number of calls to the database to gather jobs for the submission consideration.

**Jobs retrieved**

Specifies the number of jobs that the database queries returned.

**Jobs considered**

Specifies the number of jobs returned that the submission selection process considered.

**Average query time**

Specifies the average amount of processing time that is taken to execute one database query.

**Average query CPU usage**

Specifies the average amount of CPU used to execute one database query.

**Selection elapsed time**

Specifies the total processing time that the candidate selection portion of the submission selection process takes over the interval.

**Selection CPU usage**

Specifies the total amount of CPU used by the candidate selection portion of the submission selection process over the interval.

**Negative Requirements**

Category heading identifying the next eight fields as containing data related to the negative requirements checking portion of the enhanced submission selection process.

**Jobs with negative rqmts**

Specifies the number of jobs that the candidate selection portion considered with negative requirements.

**Negative rqmts read**

Specifies the number of negative requirements, from all considered jobs, which the submission selection process evaluates.

**RDY/ACT Q jobs checked**

Specifies the number of jobs in the ready or active queues that were evaluated in connection to a negative requirement.

**Neg rqmts not satisfied**

Specifies the number of negative requirements that were evaluated and found not currently satisfied. The jobs possessing these requirements are removed from the selection consideration.

**Average check time**

Specifies the average amount of processing time that is taken to evaluate the negative requirements for one job.

**Average check CPU usage**

Specifies the average amount of CPU used while evaluating the negative requirements for one job.

**Neg rqmts elapsed time**

Specifies the total processing time that the negative requirements section of the submission selection process takes over the interval.

**Neg rqmts CPU usage**

Specifies the total amount of CPU used by the negative requirements section of the submission selection process over the interval.

**ASX Virtual Resources**

Category heading identifying the next six fields as containing data related to the ASX virtual resources checking portion of the enhanced submission selection process.

**ASX resources checked**

Specifies the number of ASX resources, from all considered jobs, which the submission selection process evaluates.

**Resources not satisfied**

Specifies the number of ASX resources that were evaluated and found not currently available. The jobs requiring these resources are removed from the selection consideration.

**Average check time**

Specifies the average amount of processing time that is taken to evaluate the ASX resources for one job.

**Average check CPU usage**

Specifies the average amount of CPU used while evaluating the ASX resources for one job.

**ASX elapsed time**

Specifies the total processing time that the ASX resources section of the submission selection process takes over the interval.

**ASX CPU usage**

Specifies the total amount of CPU used by the ASX resources section of the submission selection process over the interval.

**VRM Virtual Resources**

Category heading identifying the next six fields as containing data related to the VRM virtual resources checking portion of the enhanced submission selection process.

**Resources not satisfied**

Specifies the number of VRM resources that were evaluated and found not currently available. The jobs requiring these resources are removed from the selection consideration.

**Average check time**

Specifies the average amount of processing time that is taken to evaluate the VRM resources for one job.

**Average check CPU usage**

Specifies the average amount of CPU used while evaluating the VRM resources for one job.

**VRM elapsed time**

Specifies the total processing time that the VRM resources section of the submission selection process takes over the interval.

**VRM CPU usage**

Specifies the total amount of CPU used by the VRM resources section of the submission selection process over the interval.

## CA Datacom Section

The CA Datacom/AD Section contains information that is related to the CA Datacom/AD database that CA WA CA 7 Edition uses.

SASSHR25	CA WORKLOAD AUTOMATION METRICS REPORT		07/16/yy 15:42	PAGE 8
CA Datacom Information				
Interval Start	20yy.197	11:50:05		
Interval End	20yy.197	15:42:04		
Interval Length	0 days	03:51:59		
# CA7 Restarts	0			
-----Interval Values-----				
<b>AWH Area Utilization</b>				
Total blocks	24,300			
Average blocks used	2	0.00%		
HWM	2	20yy.197	11:44:35	
LWM	2	20yy.197	11:44:35	
<b>AWL Area Utilization</b>				
Total blocks	45,900			
Average blocks used	2	0.00%		
HWM	2	20yy.197	11:44:35	
LWM	2	20yy.197	11:44:35	
<b>AWS Area Utilization</b>				
Total blocks	105,300			
Average blocks used	2	0.00%		
HWM	2	20yy.197	11:44:35	
LWM	2	20yy.197	11:44:35	
<b>DFS Area Utilization</b>				
Total blocks	144,000			
Average blocks used	1,803	1.25%		
HWM	1,803	20yy.197	11:44:35	
LWM	1,803	20yy.197	11:44:35	
<b>HIL Area Utilization</b>				
Total blocks	24,300			
Average blocks used	17	0.06%		
HWM	17	20yy.197	11:44:35	
LWM	17	20yy.197	11:44:35	
<b>HIS Area Utilization</b>				
Total blocks	44,100			
Average blocks used	80	0.18%		
HWM	81	20yy.197	14:00:07	
LWM	78	20yy.197	11:44:35	
<b>IXX Area Utilization</b>				
Total blocks	208,800			
Average blocks used	98,531	47.18%		
HWM	98,533	20yy.197	14:00:07	
LWM	98,531	20yy.197	11:44:35	
<b>JOB Area Utilization</b>				
Total blocks	53,100			
Average blocks used	2	0.00%		
HWM	2	20yy.197	11:44:35	
LWM	2	20yy.197	11:44:35	
<b>MIN Area Utilization</b>				
Total blocks	6			
Average blocks used	3	50.00%		
HWM	3	20yy.197	11:44:35	
LWM	3	20yy.197	11:44:35	

This section contains the following fields:

**xxx Area Utilization**

Category heading identifying the next four fields as containing data related to the xxx section of the CA Datacom/AD database. The full CA Datacom/AD area name is CA7770-xxx-Area, where xxx is the area name that is listed in the table.

**Total blocks**

Specifies the total number of blocks that are allocated to the section.

**Average blocks used**

Specifies the average number and percentage of blocks in-use over the interval.

**HWM**

Specifies the highest number (High-Water-Mark) of blocks in-use over the interval and includes a timestamp of when this number was hit.

**LWM**

Specifies the lowest number (Low-Water-Mark) of blocks in-use over the interval and includes a timestamp of when this number was hit.

## CSV File Description

The comma-separated value (CSV) file consists of records that are composed of fields that are separated by commas. This data set is suitable for importing into spreadsheet software such as Microsoft Excel®. The records represent data that is contained in the Metrics report. The two types of records follow:

- Header record, whose fields contain the field name. This value is analogous to a spreadsheet column heading.
- Data record, whose fields contain data from the Metrics report. Not all report data is suitable for the CSV file. Data for WLM service class and JES information is not included in the CSV file.

The CSV file contains one header record and one data record or simply a single data record. A flag in the SASSHIS8 control card determines the record choice. The single data record only option is useful for the following situations:

- You are combining multiple CSV files into one file.
- You want one header record followed by multiple data records.

In this case, you would use 'Create CSV File option' H on your first SASSHIS8 25 report to create a CSV file with a header record and a data record. Subsequent SASSHIS8 25 reports would use 'Create CSV File' option Y to create CSV files with only the data record. You can then easily combine the files into one before sending to your spreadsheet software package. Not all report data is suitable for the CSV file. Data for WLM service class and JES information is not included in the CSV file.

### Fields (Columns)

This section describes the fields of the CSV file.

#### Interval Start

Specifies the date and time of the first Statistics/Metrics log record within the requested time frame. Format is *yyyy.ddd hh:mm:ss*.

#### Interval End

Specifies the date and time of the last Statistics/Metrics log record within the requested time frame. Format is *yyyy.ddd hh:mm:ss*.

#### Interval Length

Specifies the difference between the Interval Start date/time and the Interval End date/time. Format is *nn days hh:mm:ss* (leading zeros are suppressed on days)

#### # CA7 Restarts

Specifies the number of times CA WA CA 7 Edition was restarted during the time interval. Format is *nnn* (leading zeros suppressed).

#### CPU-Task

Specifies the total task time for the interval listed. Data obtained from the ASCB control block. Format is *hhh:mm:ss.nnnnn*

#### CPU-Job Task

Specifies the total job task time for the interval listed. Data obtained from the ASCB control block. Format is *hhh:mm:ss.nnnnn*.

#### CPU-SRB

Specifies the total SRB time for the interval listed. Data obtained from the ASCB control block. Format is *hhh:mm:ss.nnnnn*

#### CPU-Pre SRB

Specifies the total preemptable SRB task time for the interval listed. Data obtained from the ASSB control block. Format is *hhh:mm:ss.nnnnn*.

#### CPU-Total

Specifies the total CPU time for the interval listed. It is the sum of the four previous fields. For reporting, all CPU times are truncated at 5 decimal places. The CPU time source fields kept in storage and written to the log file contain more precision than 5 decimal places. The full precision source fields are added together to calculate the Total CPU used and thus the value on the report may not exactly match the sum of the fields displayed on the report. Format is *hhh:mm:ss.nnnnn*.

**IO Count**

Specifies the total I/O count for the interval listed. Data obtained from the ASCB control block. Format is *n,nnn,nnn,nnn,nnn,nnn,nnn* (leading zeros suppressed).

**HWM Storage Below(K)**

Specifies the highest amount of storage in 1 KB increments (High-Water-Mark) below the 16M line that was recorded on a metrics log record. Data obtained from the LDA control block. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**HWM Storage Below DtTm**

Specifies the date and time when the HWM was recognized for storage below the 16M line. The HWM value and timestamp are kept in storage beginning shortly after CA 7 start-up. The in storage values are written to the metrics log records and thus the report may show an HWM date and time before the report interval. Data obtained from the LDA control block. Format is *yyyy.ddd hh:mm:ss*.

**HWM Storage Above(K)**

Specifies the highest amount of storage in 1K increments (High-Water-Mark) above the 16M line that was recorded on a metrics log record. Data obtained from the LDA control block. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**HWM Storage Above DtTm**

Specifies the date and time when the HWM was recognized for storage above the 16M line. The HWM value and timestamp are kept in storage beginning shortly after CA 7 start-up. The in storage values are written to the metrics log records and thus the report may show an HWM date and time prior to the report interval. Data obtained from the LDA control block. Format is *yyyy.ddd hh:mm:ss*.

**Avg Disp Prty**

Specifies the average dispatching priority for the interval listed. It is obtained by summing the dispatch priority from all metrics log records within the time interval and then dividing by the number of metrics log records. Data obtained from the ASCB control block. Format is *nnn*.

**HWM Disp Prty**

Specifies the highest dispatching priority that was recorded on a metrics log record for the interval listed. Data obtained from the ASCB control block. Format is *nnn*.

**HWM Disp Prty DtTm**

Specifies the date and time of the log record when the HWM for dispatching priority was recorded. Format is *yyyy.ddd hh:mm:ss*.

**LWM Disp Prty**

Specifies the lowest dispatching priority that was recorded on a metrics log record for the interval listed. Data obtained from the ASCB control block. Format is *nnn*.

**LWM Disp Prty DtTm**

Specifies the date and time of the log record when the LWM for dispatching priority was recorded. Format is *yyyy.ddd hh:mm:ss*.

**Jobs Submitted**

Specifies the total number of jobs submitted during the interval listed as recorded on statistic log records. Format is *nnn,nnn,nnn* (leading zeros suppressed)

**Avg Jobs Scale**

Specifies a floating scale value determined by the previous 'Jobs Submitted' field. Format is *nnnnn* (leading zeros suppressed).

**AvgJ CPU-Task**

Specifies the task time normalized for the scale number of jobs . Format is *hhh:mm:ss.nnnnn*.

**AvgJ CPU-Job Task**

Specifies the job task time normalized for the scale number of jobs. Format is *hhh:mm:ss.nnnnn*.

**AvgJ CPU-SRB**

Specifies the SRB time normalized for the scale number of jobs. Format is *hhh:mm:ss.nnnnn*.

**AvgJ CPU-Pre SRB**

Specifies the preemptable SRB time normalized for the scale number of jobs . Format is *hhh:mm:ss.nnnnn*.

**AvgJ CPU-Total**

Specifies the total CPU time normalized for the scale number of jobs . Format is *hhh:mm:ss.nnnnn*.

**AvgJ IO Count**

Specifies the I/O count normalized for the scale number of jobs . Format is *n,nnn,nnn,nnn,nnn,nnn,nnn* (leading zeros suppressed).

**Total Term Txn**

Specifies the total number of terminal transactions executed during the interval listed as recorded on statistic log record. Format is *nnn,nnn,nnn* (leading zeros suppressed)

**API Term Txn**

Specifies the total number of API terminal transactions executed during the interval listed as recorded on statistic log record. Format is *nnn,nnn,nnn* (leading zeros suppressed)

**API Percent**

Specifies the percentage of terminal transactions that were API terminal transactions. Obtained by dividing API Term Txn by Total Term Txn and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**Avg Term Txn Scale**

Specifies a floating scale value determined by the previous 'Total Term Txn' field. Format is *nnnn* (leading zeros suppressed).

**AvgT CPU-Task**

Specifies the task time normalized for the scale number of terminal transactions. Format is *hhh:mm:ss.nnnnn*.

**AvgT CPU-Job Task**

Specifies the job task time normalized for the scale number of terminal transactions. Format is *hhh:mm:ss.nnnnn*.

**AvgT CPU-SRB**

Specifies the SRB time normalized for the scale number of terminal transactions. Format is *hhh:mm:ss.nnnnn*.

**AvgT CPU-Pre SRB**

Specifies the preemptable SRB time normalized for the scale number of terminal transactions. Format is *hhh:mm:ss.nnnnn*.

**AvgT CPU-Total**

Specifies the total CPU time normalized for the scale number of terminal transactions. Format is *hhh:mm:ss.nnnnn*.

**AvgT IO Count**

Specifies the I/O count normalized for the scale number of terminal transactions.  
Format is *n,nnn,nnn,nnn,nnn,nnn* (leading zeros suppressed).

**SASSDAIO CPU**

Specifies the CPU time used in the specified time interval by the Queue I/O SCT.  
Format is *hhh:mm:ss.nnnnn*.

**SASSDAIO CPU%**

Specifies the percentage of the CPU time of the Queue I/O SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCHDO CPU**

Specifies the CPU time used in the specified time interval by the Output Msg Scheduler SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCHDO CPU%**

Specifies the percentage of the CPU time of the Output Msg Scheduler SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSLMGR CPU**

Specifies the CPU time used in the specified time interval by the Line manager SCT.  
Format is *hhh:mm:ss.nnnnn*.

**SASSLMGR CPU%**

Specifies the percentage of the CPU time of the Line manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSHALT CPU**

Specifies the CPU time used in the specified time interval by the Shutdown Processor SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSHALT CPU%**

Specifies the percentage of the CPU time of the Shutdown Processor SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSLOGM CPU**

Specifies the CPU time used in the specified time interval by the Log Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSLOGM CPU%**

Specifies the percentage of the CPU time of the Log Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCCIL CPU**

Specifies the CPU time used in the specified time interval by the XPS (CCI) Server Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCCIL CPU%**

Specifies the percentage of the CPU time of the XPS (CCI) Server Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSBTMG CPU**

Specifies the CPU time used in the specified time interval by the Subtask Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSBTMG CPU%**

Specifies the percentage of the CPU time of the Subtask Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCMGR CPU**

Specifies the CPU time used in the specified time interval by the Communications Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCMGR CPU%**

Specifies the percentage of the CPU time of the Communications Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSSMFO CPU**

Specifies the CPU time used in the specified time interval by the SMF Processor SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSMF0 CPU%**

Specifies the percentage of the CPU time of the SMF Processor SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCNC CPU**

Specifies the CPU time used in the specified time interval by the Scan completed jobs mgr SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCNC CPU%**

Specifies the percentage of the CPU time of the Scan completed jobs mgr SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCMP1 CPU**

Specifies the CPU time used in the specified time interval by the Completion Processor (1) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCMP1 CPU%**

Specifies the percentage of the CPU time of the Completion Processor (1) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCMP2 CPU**

Specifies the CPU time used in the specified time interval by the Completion Processor (2) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCMP2 CPU%**

Specifies the percentage of the CPU time of the Completion Processor (2) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCMP3 CPU**

Specifies the CPU time used in the specified time interval by the Completion Processor (3) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCMP3 CPU%**

Specifies the percentage of the CPU time of the Completion Processor (3) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCMP4 CPU**

Specifies the CPU time used in the specified time interval by the Completion Processor (4) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCMP4 CPU%**

Specifies the percentage of the CPU time of the Completion Processor (4) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCMP5 CPU**

Specifies the CPU time used in the specified time interval by the Completion Processor (5) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCMP5 CPU%**

Specifies the percentage of the CPU time of the Completion Processor (5) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSARF0 CPU**

Specifies the CPU time used in the specified time interval by the ARF Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSARF0 CPU%**

Specifies the percentage of the CPU time of the ARF Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSSCN0 CPU**

Specifies the CPU time used in the specified time interval by the Schedule Scan Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSSCN0 CPU%**

Specifies the percentage of the CPU time of the Queue I/O SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSSCNL CPU**

Specifies the CPU time used in the specified time interval by the Load (scan) Processor SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCNL CPU%**

Specifies the percentage of the CPU time of the Queue I/O SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSJCO CPU**

Specifies the CPU time used in the specified time interval by the JCL Creation Manager SCT. Format is *hh:mm:ss.nnnnn*.

**SASSJCO CPU%**

Specifies the percentage of the CPU time of the JCL Creation Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSS00 CPU**

Specifies the CPU time used in the specified time interval by the Main submit Manager SCT. Format is *hh:mm:ss.nnnnn*.

**SASSS00 CPU%**

Specifies the percentage of the CPU time of the Main submit Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO01 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (1) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO01 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (1) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO02 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (2) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO02 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (2) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO03 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (3) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO03 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (3) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**SASSO04 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (4) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO04 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (4) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**SASSO05 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (5) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO05 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (5) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**SASSO06 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (6) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO06 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (6) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**SASSO07 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (7) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO07 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (7) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO08 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (8) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO08 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (8) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO09 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (9) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO09 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (9) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO10 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (10) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO10 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (10) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO11 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (11) SCT. Format is *hh:mm:ss.nnnnn*.

**SASSO11 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (11) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO12 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (12) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSO12 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (12) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO13 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (13) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSO13 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (13) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO14 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (14) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSO14 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (14) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSO15 CPU**

Specifies the CPU time used in the specified time interval by the Submit subtask (15) SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSO15 CPU%**

Specifies the percentage of the CPU time of the Submit subtask (15) SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCIAS CPU**

Specifies the CPU time used in the specified time interval by the IAS Interface Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCIAS CPU%**

Specifies the percentage of the CPU time of the IAS Interface Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSXTMO CPU**

Specifies the CPU time used in the specified time interval by the External Terminal Manager SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSXTMO CPU%**

Specifies the percentage of the CPU time of the External Terminal Manager SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSTCP0 CPU**

Specifies the CPU time used in the specified time interval by the TCP/IP Interface SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSTCP0 CPU%**

Specifies the percentage of the CPU time of the TCP/IP Interface SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**SASSCHED CPU**

Specifies the CPU time used in the specified time interval by the Application Scheduler SCT. Format is *hhh:mm:ss.nnnnn*.

**SASSCHED CPU%**

Specifies the percentage of the CPU time of the Application Scheduler SCT compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**3270V CPU**

Specifies the CPU time used in the specified time interval by the VTAM Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**3270V CPU%**

Specifies the percentage of the CPU time of the VTAM Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**CONSOLE CPU**

Specifies the CPU time used in the specified time interval by the Console Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**CONSOLE CPU%**

Specifies the percentage of the CPU time of the Console Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**BSAM CPU**

Specifies the CPU time used in the specified time interval by the Browse Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**BSAM CPU%**

Specifies the percentage of the CPU time of the Browse Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**BATCH CPU**

Specifies the CPU time used in the specified time interval by the Batch Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**BATCH CPU%**

Specifies the percentage of the CPU time of the Batch Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**TRAILER CPU**

Specifies the CPU time used in the specified time interval by the Trailer Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**TRAILER CPU%**

Specifies the percentage of the CPU time of the Trailer Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**TRX CPU**

Specifies the CPU time used in the specified time interval by the ARF Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**TRX CPU%**

Specifies the percentage of the CPU time of the ARF Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnnn.nn* (leading zeros suppressed).

**CCI CPU**

Specifies the CPU time used in the specified time interval by the CCI & TCP Terminals SCTs. Format is *hhh:mm:ss.nnnnn*.

**CCI CPU%**

Specifies the percentage of the CPU time of the CCI & TCP Terminals SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**\*TOTALS\* CPU**

Specifies the CPU time used in the specified time interval by all SCTs. Format is *hhh:mm:ss.nnnnn*.

**\*TOTALS\* CPU%**

Specifies the percentage of the CPU time of ALL SCTs compared to the total used by all SCTs. Obtained by dividing this SCT's CPU time by the total CPU time and multiplying by 100. Format is *nnnn.nn* (leading zeros suppressed).

**Avg Jobs in Queue**

Specifies the average number of jobs in the request, ready, and active queues for the interval listed. It is obtained by summing the ' #jobs in queues' from all metrics log records within the time interval and then dividing by the number of metrics log records. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**Avg Jobs Wait Rsrc**

Specifies the average number of jobs waiting on VRM, WLB, or IAS for submission for the interval listed. It is obtained by summing the ' Jobs waiting for VRM', 'Jobs waiting for WLB, and 'Jobs waiting for IAS' from all metrics log records within the time interval and then dividing by the number of metrics log records. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**VRM Avg Jobs Wait**

Specifies the average number of jobs that were waiting for VRM resources for the interval listed. It is obtained by summing the ' Jobs waiting for VRM' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**VRM HWM Jobs Wait**

Specifies the highest number of jobs that were waiting for VRM resources that was recorded on a metrics log record for the interval listed. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**VRM HWM Jobs Wait DtTm**

Specifies the date and time of the log record when the HWM for jobs waiting for VRM resources was recorded. Format is *yyyy.ddd hh:mm:ss*.

**VRM LWM Jobs Wait**

Specifies the lowest number of jobs that were waiting for VRM resources that was recorded on a metrics log record for the interval listed. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**VRM LWM Jobs Wait DtTm**

Specifies the date and time of the log record when the LWM for jobs waiting for VRM resources was recorded. Format is *yyyy.ddd hh:mm:ss*.

**VRM Avg Rejects**

Specifies the average number of times all jobs waiting for submission were rejected due to waiting on VRM resources during the specified time interval. It is obtained by summing the ' # VRM rejects' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**WLB Avg Jobs Wait**

Specifies the average number of jobs that were waiting for WLB resources for the interval listed. It is obtained by summing the ' Jobs waiting for WLB' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**WLB HWM Jobs Wait**

Specifies the highest number of jobs that were waiting for WLB resources that was recorded on a metrics log record for the interval listed. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**WLB HWM Jobs Wait DtTm**

Specifies the date and time of the log record when the HWM for jobs waiting for WLB resources was recorded. Format is *yyyy.ddd hh:mm:ss*.

**WLB LWM Jobs Wait**

Specifies the lowest number of jobs that were waiting for WLB resources that was recorded on a metrics log record for the interval listed. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**WLB LWM Jobs Wait DtTm**

Specifies the date and time of the log record when the LWM for jobs waiting for WLB resources was recorded. Format is *yyyy.ddd hh:mm:ss*.

**WLB Avg Rejects**

Specifies the average number of times all jobs waiting for submission were rejected due to waiting on WLB resources during the specified time interval. It is obtained by summing the ' # WLB rejects' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**IAS Avg Jobs Wait**

Specifies the average number of jobs that were waiting for IAS resources for the interval listed. It is obtained by summing the 'Jobs waiting for IAS' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**IAS HWM Jobs Wait**

Specifies the highest number of jobs that were waiting for IAS resources that was recorded on a metrics log record for the interval listed. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**IAS HWM Jobs Wait DtTm**

Specifies the date and time of the log record when the HWM for jobs waiting for IAS resources was recorded. Format is *yyyy.ddd hh:mm:ss*.

**IAS LWM Jobs Wait**

Specifies the lowest number of jobs that were waiting for IAS resources that was recorded on a metrics log record for the interval listed. Format is *nnn,nnn,nnn* (leading zeros suppressed).

**IAS LWM Jobs Wait DtTm**

Specifies the date and time of the log record when the LWM for jobs waiting for IAS resources was recorded. Format is *yyyy.ddd hh:mm:ss*.

**IAS Avg Rejects**

Specifies the average number of times all jobs waiting for submission were rejected due to waiting on IAS resources during the specified time interval. It is obtained by summing the '# IAS rejects' from all metrics log records within the time interval and then dividing by the number of metrics log records.

**AGJOB FDBK TCPU**

Specifies the total CPU time, in seconds, used in the specified time interval, by the agent job feedback subtask.

**AGJOB FDBK TTCB**

Specifies the amount of CPU time that was run in TCB mode by the agent job feedback subtask.

**AGJOB FDBK TSRB**

Specifies the amount of CPU time that was run in SRB mode by the agent job feedback subtask.

**AGJOB FDBK SRB%**

Specifies the percentage of total CPU used that was run in SRB mode by the agent job feedback subtask.

**AGJOB FDBK TZIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor by the agent job feedback subtask.

**AGJOB FDBK CZIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor, but was run on a regular processor, by the agent job feedback subtask.

**AGJOB FDBK ZZIP**

Specifies the amount of CPU time used that was run on a zIIP processor by the agent job feedback subtask.

**AGJOB FDBK ZIP%**

Specifies the percentage of zIIP eligible CPU that was run on a zIIP processor by the agent job feedback subtask.

**AGJOB FDBK #SRBS**

Specifies the number of times the SRB has been started by the agent job feedback subtask.

**AGJOB FDBK #TCB-SRB**

Specifies the number of times that processing switched from TCB to SRB mode by the agent job feedback subtask.

**AGJOB FDBK #SRB-TCB**

Specifies the number of times that processing switched from SRB to TCB mode by the agent job feedback subtask.

**XCF (SMF) TCPU**

Specifies the total CPU time, in seconds, used in the specified time interval, by the XCF communication subtask.

**XCF (SMF) TTCB**

Specifies the amount of CPU time that was run in TCB mode by the agent job feedback subtask.

**XCF (SMF) TSRB**

Specifies the amount of CPU time that was run in SRB mode by the XCF communication subtask.

**XCF (SMF) SRB%**

Specifies the percentage of total CPU used that was run in SRB mode by the XCF communication subtask.

**XCF (SMF) TZIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor by the XCF communication subtask.

**XCF (SMF) CZIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor, but was run on a regular processor, by the XCF communication subtask.

**XCF (SMF) ZZIP**

Specifies the amount of CPU time used that was run on a zIIP processor by the XCF communication subtask.

**XCF (SMF) ZIP%**

Specifies the percentage of zIIP eligible CPU that was run on a zIIP processor by the XCF communication subtask.

**XCF (SMF) #SRBS**

Specifies the number of times the SRB has been started by the XCF communication subtask.

**XCF (SMF) #TCB-SRB**

Specifies the number of times that processing switched from TCB to SRB mode by the XCF communication subtask.

**XCF (SMF) #SRB-TCB**

Specifies the number of times that processing switched from SRB to TCB mode by the XCF communication subtask.

**SUBMIT $nn$  TCPU**

Specifies the total CPU time, in seconds, used in the specified time interval, by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  TTCB**

Specifies the amount of CPU time that was run in TCB mode by the agent job feedback subtask.

**SUBMIT $nn$  TSRB**

Specifies the amount of CPU time that was run in SRB mode by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  SRB%**

Specifies the percentage of total CPU used that was run in SRB mode by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  TZIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  CZIP**

Specifies the amount of CPU time used that was eligible to be run on a zIIP processor, but was run on a regular processor, by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  ZZIP**

Specifies the amount of CPU time used that was run on a zIIP processor by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  ZIP%**

Specifies the percentage of zIIP eligible CPU that was run on a zIIP processor by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  #SRBS**

Specifies the number of times the SRB has been started by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  #TCB-SRB**

Specifies the number of times that processing switched from TCB to SRB mode by the Submit subtask ( $nn$ ).

**SUBMIT $nn$  #SRB-TCB**

Specifies the number of times that processing switched from SRB to TCB mode by the Submit subtask ( $nn$ ).

**SUBSEL Task invocations**

Specifies the number of times within the interval that the enhanced submission selection process has started.

**SUBSEL Jobs selected**

Specifies the number of jobs that were successfully selected to be submitted within the interval by the enhanced submission selection process.

**SUBSEL Avg processing time**

Specifies the average amount of processing time that is required for one execution of the submission selection process to complete.

**SUBSEL Avg CPU usage**

Specifies the average amount of CPU used in one complete execution of the submission selection process.

**SUBSEL Total processing time**

Specifies the total amount of processing time that all invocations of the submission selection process during the interval use.

**SUBSEL Total CPU usage**

Specifies the total amount of CPU used by all invocations of the submission selection process during the interval.

**SUBSEL WLB build count**

Specifies the number of times that the WLB environment was constructed as part of the submission selection process during the interval.

**SUBSEL WLB bld avg time**

Specifies the average amount of processing time that it takes the enhanced submission selection process to model the WLB environment once.

**SUBSEL WLB bld avg CPU usage**

Specifies the average amount of CPU used to model the WLB environment once by the enhanced submission selection process.

**SUBSEL WLB elapsed time**

Specifies the total amount of processing time that the WLB portion of the submission selection process takes.

**SUBSEL WLB CPU usage**

Specifies the total amount of CPU used by the WLB portion of the submission selection process.

**SUBSEL Candidate queries**

Specifies the number of calls to the database to gather jobs for submission consideration by the enhanced submission selection process.

**SUBSEL Query jobs retrieved**

Specifies the number of jobs returned by the database queries by the enhanced submission selection process.

**SUBSEL Query jobs considered**

Specifies the number of jobs returned that the submission selection process considered.

**SUBSEL Avg query time**

Specifies the average amount of processing time that is taken to execute one database query as part of the enhanced submission selection process.

**SUBSEL Avg query CPU usage**

Specifies the average amount of CPU used to execute one database query as part of the enhanced submission selection process.

**SUBSEL Query elapsed time**

Specifies the total processing time that the candidate selection portion of the submission selection process over the interval takes.

**SUBSEL Query CPU usage**

Specifies the total amount of CPU used by the candidate selection portion of the submission selection process over the interval.

**SUBSEL Jobs retrvd w/ neg rqmts**

Specifies the number of jobs that are considered by the candidate selection portion that have negative requirements as part of the enhanced submission selection process.

**SUBSEL Negative rqmts read**

Specifies the number of negative requirements, from all jobs that are considered, evaluated by the submission selection process.

**SUBSEL RDY/ACT Q jobs checked**

Specifies the number of jobs in the Ready or Active queues that were evaluated in connection to a negative requirement as part of the enhanced submission selection process.

**SUBSEL Neg rqmts not satisfied**

Specifies the number of negative requirements that were evaluated and were found currently unsatisfied as part of the enhanced submission selection process. Jobs possessing these requirements are removed from selection consideration.

**SUBSEL Avg neg rqmts chk time**

Specifies the average amount of processing time that is taken to evaluate the negative requirements for one job as part of the enhanced submission selection process.

**SUBSEL Avg neg rqmts chk CPU use**

Specifies the average amount of CPU used while evaluating the negative requirements for one job as part of the enhanced submission selection process.

**SUBSEL neg rqmts elapsed time**

Specifies the total processing time that the negative requirements section of the submission selection process over the interval takes.

**SUBSEL neg rqmts CPU usage**

Specifies the total amount of CPU used by the negative requirements section of the submission selection process over the interval.

**SUBSEL ASX resources checked**

Specifies the number of ASX resources, from all jobs that are considered, evaluated by the submission selection process.

**SUBSEL ASX rsrcs not satisfied**

Specifies the number of ASX resources that were evaluated and found currently unavailable as part of the enhanced submission selection process. Jobs requiring these resources are removed from selection consideration.

**SUBSEL ASX avg job check time**

Specifies the average amount of processing time that is taken to evaluate the ASX resources for one job as part of the enhanced submission selection process.

**SUBSEL ASX avg job chk CPU usage**

Specifies the average amount of CPU used while evaluating the ASX resources for one job as part of the enhanced submission selection process.

**SUBSEL ASX elapsed time**

Specifies the total processing time that the ASX resources section of the submission selection process over the interval take.

**SUBSEL ASX CPU usage**

Specifies the total amount of CPU used by the ASX resources section of the submission selection process over the interval.

**SUBSEL VRM rsrcs not satisfied**

Specifies the number of VRM resources that were evaluated and found currently unavailable as part of the enhanced submission selection process. Jobs requiring these resources are removed from selection consideration.

**SUBSEL VRM avg job check time**

Specifies the average amount of processing time that is taken to evaluate the VRM resources for one job as part of the enhanced submission selection process.

**SUBSEL VRM avg job chk CPU usage**

Specifies the average amount of CPU used while evaluating the VRM resources for one job.

**SUBSEL VRM elapsed time**

Specifies the total processing time that the VRM resources section of the submission selection process over the interval take.

**SUBSEL VRM CPU usage**

Specifies the total amount of CPU used by the VRM resources section of the submission selection process over the interval.

**xxx Total Blocks**

Specifies the total number of blocks that are allocated to the xxx CA Datacom/AD database area.

**xxx Avg Used Blocks**

Specifies the average number of blocks in-use in the xxx CA Datacom/AD database area over the interval.

**xxx Avg Used Blocks %**

Specifies the average percentage of blocks that are in-use over the interval for the xxx CA Datacom/AD database area.

**xxx HWM Used Blocks**

Specifies the highest number (High-Water-Mark) of blocks in-use over the interval for the xxx CA Datacom/AD database area.

**xxx HWM Used Blocks DtTm**

Specifies the date/time stamp of the record where the blocks in-use HWM values for this database area were recorded for the xxx CA Datacom/AD database area.

**xxx LWM Used Blocks**

Specifies the lowest number (Low-Water-Mark) of blocks in-use over the interval for the xxx CA Datacom/AD database area.

**xxx LWM Used Blocks DtTm**

Specifies the date/time stamp of the record where the blocks in-use LWM values for this database area were recorded for the xxx CA Datacom/AD database area.

## SASSHC25 Compare Utility

The compare utility provides a side-by-side comparison of the CA WA CA 7 Edition performance-related data contained in two SASSHR25 reports. Each run of SASSHR25 produces an output file containing report data. The process uses two of these report files from separate runs of SASSHR25 as input to the compare utility. The utility produces the side-by-side comparison.

Each report contains data that was normalized for two different categories; jobs and transactions. If the scale values for a category are different between the two input reports, the smaller is used for the comparison report.

### Sample Compare Utility JCL

The following is a sample of the JCL that produces metrics compare reports.

```
//jobname JOB local jobcard statement *
//COMPARE EXEC PGM=SASSHC25
//STEPLIB DD DISP=SHR,DSN=user-defined-CA-7-loadlib *
//REPORT1 DD DISP=SHR,DSN=metrics.report1.data *
//REPORT2 DD DISP=SHR,DSN=metrics.report2.data *
//SYSPRINT DD SYSOUT=a *
//HC25REPT DD SYSOUT=a *
```

\* Designates statements that require user-supplied information. Lowercase characters within the statement identify the required user-defined information.

### Sample Comparison Report

The following topics discuss the sections of a sample comparison report.

## z/OS Section

The z/OS section contains information related to the CA WA CA 7 Edition address space.

SASSHC25		CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT		11/07/yy 14:46		PAGE 1	
z/OS System Data							
Interval Start	20yy.290 16:00:03		20yy.291 00:00:08				
Interval End	20yy.290 23:59:08		20yy.291 08:00:07				
Interval Length	0 days 07:59:05		0 days 07:59:59				
# CA7 Restarts	0		0				
-----Interval Values-----							
CPU Used							
Task	000:00:00.00000		000:00:00.00000				
Job Task	000:00:12.78900		000:00:16.58479				
SRB	000:00:00.59351		000:00:00.87883				
Preemptable SRB	000:00:00.33989		000:00:00.40998				
Total CPU used	000:00:13.72240		000:00:17.87361				
I/O Count	49,054		66,504				
HMM Storage <16M	5,792K 20yy.290 13:30:04		5,804K 20yy.291 02:29:00				
HMM Storage >16M	34,892K 20yy.290 13:33:04		35,028K 20yy.291 08:00:07				
Dispatch Priority							
Average	EC (236)		E4 (228)				
HMM	F4 (244) 20yy.290 16:26:05		F2 (242) 20yy.291 00:06:09				
LWM	D8 (216) 20yy.290 21:04:01		D2 (210) 20yy.291 07:02:05				
WLM Service Class	2 changes Date/Time		WLM Service Class	0 changes Date/Time			
ONLTEST	20yy.290 16:00:03		ONLTEST	20yy.291 00:00:08			
WLMTEST	20yy.290 18:00:02						
ONLTEST	20yy.290 18:01:03						
Jobs Submitted	401		503				
Averages for 10 jobs					%Change		
Task	000:00:00.00000		000:00:00.00000		+0.00%		
Job Task	000:00:00.31892		000:00:00.32971		+3.38%		
SRB	000:00:00.01480		000:00:00.01747		+18.04%		
Preemptable SRB	000:00:00.00847		000:00:00.00815		-3.83%		
Total CPU used	000:00:00.34220		000:00:00.35534		+3.83%		
I/O Count	1,223		1,322		+8.09%		
Terminal Transactions (txn)							
Total #	29		437				
API #	0		411				
API %	0.00		94.05				
Averages for 1 terminal txn							
Task	000:00:00.00000		000:00:00.00000		+0.00%		
Job Task	000:00:00.44100		000:00:00.03795		-91.39%		
SRB	000:00:00.02046		000:00:00.00201		-90.17%		
Preemptable SRB	000:00:00.01172		000:00:00.00093		-91.99%		
Total CPU used	000:00:00.47318		000:00:00.04090		-91.35%		
I/O Count	1,691		152		-91.01%		

This section contains the same fields as the SASSHR25 report with the following additions.

#### %Change (Averages for *nnnn* jobs)

The percent increase or decrease of the normalized value between interval #1 and interval #2.

#### %Change (Averages for *nnnn* transactions)

The percent increase or decrease of the normalized value between interval #1 and interval #2.

**More information:**

[z/OS Section](#) (see page 179)

**JES Section**

The JES section contains information related to a JESPLEX. Initial values are listed for each JES system in the JESPLEX followed by any changes that occurred during the time interval. The maximum number of changes that is recorded is equal to eight times the number of JES systems in the JESPLEX. Calls to the JES subsystem interface obtain all JES data.

SASSHC25		CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT										11/07/yy 14:46		PAGE 2	
JES Subsystem: JES2															
Interval Start	20yy.290 16:00:03					20yy.291 00:00:08									
Interval End	20yy.290 23:59:08					20yy.291 08:00:07									
Interval Length	0 days 07:59:05					0 days 07:59:59									
# CA7 Restarts	0					0									
JES Name	Version	Status	Min	Max	Hold	TimeStamp	JES Name	Version	Status	Min	Max	Hold	TimeStamp		
*CA31	z/OS1.12	ACTIVE	50	500	50	20yy.290 16:00:03	*CA31	z/OS1.12	ACTIVE	50	500	50	20yy.291 00:00:08		
CA11	z/OS1.12	ACTIVE	50	500	50	20yy.290 16:00:03	CA11	z/OS1.12	ACTIVE	50	500	50	20yy.291 00:00:08		
----- There were 0 JES changes -----							----- There were 2 JES changes -----								
							*CA31	z/OS1.12	DRAINED	50	500	50	20yy.291 04:00:01		
							*CA31	z/OS1.12	ACTIVE	50	500	50	20yy.291 05:00:00		

This section contains the same fields as the SASSHR25 report.

**More information:**

[JES Section](#) (see page 184)

## SCT Section

The SCT section contains information related to CA WA CA 7 Edition System Control Tasks (SCT). The SCTs represent threads running in the CA WA CA 7 Edition address space.

SASSHC25		CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT				11/07/yy 14:46	PAGE 3
		CA 7 SCT Data					
Interval Start	20yy.290 16:00:03			20yy.291 00:00:08			
Interval End	20yy.290 23:59:08			20yy.291 08:00:07			
Interval Length	0 days 07:59:05			0 days 07:59:59			
# CA7 Restarts	0			0			
SCT	Description	CPU Time	% of total	CPU Time	% of total		
SASSDAIO	Queue I/O	000:00:00.00433	0.07	000:00:00.01241	0.11		
SASSCHDO	Output Msg Scheduler	000:00:00.00641	0.11	000:00:00.02042	0.18		
SASSLMGR	Line Manager	000:00:00.02792	0.48	000:00:00.12623	1.15		
SASSHALT	Shutdown Processor	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSLOGM	Log Manager	000:00:01.37763	24.00	000:00:02.67926	24.54		
SASSCCIL	XPS (CCI) Server Manager	000:00:00.01017	0.17	000:00:00.01017	0.09		
SASSBTMG	Subtask Manager	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSCMGR	Communications Manager	000:00:01.27852	22.27	000:00:02.43451	22.30		
SASSSMF0	SMF Processor	000:00:01.29451	22.55	000:00:02.55095	23.36		
SASSSCNC	Scan completed jobs mgr	000:00:00.15981	2.78	000:00:00.40810	3.73		
SASSCMP1	Completion Processor (1)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSCMP2	Completion Processor (2)	000:00:00.19403	3.38	000:00:00.50819	4.65		
SASSCMP3	Completion Processor (3)	000:00:00.00264	0.04	000:00:00.02306	0.21		
SASSCMP4	Completion Processor (4)	000:00:00.00000	0.00	000:00:00.00014	0.00		
SASSCMP5	Completion Processor (5)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSARF0	ARF Manager	000:00:00.00007	0.00	000:00:00.00007	0.00		
SASSSCN0	Schedule Scan Manager	000:00:00.14759	2.57	000:00:00.35264	3.23		
SASSSCNL	Load (scan) processor	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSJC0	JCL Creation Manager	000:00:00.03479	0.60	000:00:00.09344	0.85		
SASSS00	Main Submit Manager	000:00:00.22059	3.84	000:00:00.49512	4.53		
SASSS001	Submit subtask (1)	000:00:00.06108	1.06	000:00:00.14446	1.32		
SASSS002	Submit subtask (2)	000:00:00.00000	0.00	000:00:00.00434	0.03		
SASSS003	Submit subtask (3)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS004	Submit subtask (4)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS005	Submit subtask (5)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS006	Submit subtask (6)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS007	Submit subtask (7)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS008	Submit subtask (8)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS009	Submit subtask (9)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS010	Submit subtask (10)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS011	Submit subtask (11)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS012	Submit subtask (12)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS013	Submit subtask (13)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS014	Submit subtask (14)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSS015	Submit subtask (15)	000:00:00.00000	0.00	000:00:00.00000	0.00		
SASSCIAS	IAS Interface Manager	000:00:00.04482	0.78	000:00:00.05330	0.48		
SASSXTM0	External Terminal Manager	000:00:00.01713	0.29	000:00:00.02634	0.24		
SASSTCP0	TCP/IP Interface	000:00:00.02766	0.48	000:00:00.02766	0.25		
SASSCHED	Application Scheduler	000:00:00.68364	11.90	000:00:00.68364	6.26***		
3270V	VTAM Terminals (G)	000:00:00.14642	2.55	000:00:00.26116	2.39		
CONSOLE	Console Terminals (G)	000:00:00.00026	0.00	000:00:00.00026	0.00		
BSAM	Browse Terminals (G)	000:00:00.00000	0.00	000:00:00.00000	0.00		
BATCH	Batch Terminals (G)	000:00:00.00000	0.00	000:00:00.00000	0.00		
TRAILER	Trailer Terminals (G)	000:00:00.00000	0.00	000:00:00.00000	0.00		
TRX	ARF Terminals (G)	000:00:00.00000	0.00	000:00:00.00000	0.00		
CCI	CCI & TCP Terminals (G)	000:00:00.00000	0.00	000:00:00.00000	0.00		
*TOTALS*		000:00:05.74013	100.00	000:00:10.91600	100.00		

This section contains the same fields as the SASSHR25 report with the following additions.

\*\*\* (following % of total at end of detail line)

The % of total value for this SCT has increased or decreased by at least 5 percentage points.

**More information:**

[SCT Section](#) (see page 186)

### Waiting for Resources Section

The Waiting for Resources section contains information related to jobs waiting submission due to resource availability.

SASSHC25	CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT				11/07/yy 14:46	PAGE	4
Waiting for Resources Data							
Interval Start	20yy.290 16:00:03		20yy.291 00:00:08				
Interval End	20yy.290 23:59:08		20yy.291 08:00:07				
Interval Length	0 days 07:59:05		0 days 07:59:59				
# CA7 Restarts	0		0				
	-----Interval Values-----		-----Interval Values-----				
Average #jobs in queues	4		4				
Average #jobs waiting resource	0		0				
Jobs waiting for VRM							
Average # jobs	0		0				
HWM # jobs	0	20yy.290 16:00:03	0	20yy.291 00:00:08			
LWM # jobs	0	20yy.290 16:00:03	0	20yy.291 00:00:08			
Average # rejects	0		0				
Jobs waiting for WLB							
Average # jobs	0		0				
HWM # jobs	0	20yy.290 16:00:03	0	20yy.291 00:00:08			
LWM # jobs	0	20yy.290 16:00:03	0	20yy.291 00:00:08			
Average # rejects	0		0				
Jobs waiting for IAS							
Average # jobs	0		0				
HWM # jobs	0	20yy.290 16:00:03	0	20yy.291 00:00:08			
LWM # jobs	0	20yy.290 16:00:03	0	20yy.291 00:00:08			
Average # rejects	0		0				

This section contains the same fields as the SASSHR25 report.

**More information:**

[Waiting on Resources Section](#) (see page 187)

## zIIP Section

The zIIP section contains information related to CA WA CA 7 Edition usage of zIIP processing. This section contain data with all zeros if ZIIP=YES is not specified in the initialization options.

SASSHC25	CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT		07/17/yy 13:40	PAGE	5
zIIP Processing Data					
Interval Start	20yy.198 12:35:03		20yy.198 12:35:03		
Interval End	20yy.198 13:39:00		20yy.198 13:40:00		
Interval Length	0 days 01:03:57		0 days 01:04:57		
# CA7 Restarts	0		0		
-----Interval Values-----					
Agent Job Feedback Subtask					
Total CPU used	0.000000		0.000000		
TCB CPU	0.000000		0.000000		
SRB CPU	0.000000		0.000000		
SRB%	0.00		0.00		
CPU eligible zIIP	0.000000		0.000000		
CPU on normal CP	0.000000		0.000000		
CPU on zIIP	0.000000		0.000000		
zIIP%	0.00		0.00		
# SRB starts	0		0		
Switches TCB -> SRB	0		0		
Switches SRB -> TCB	0		0		
XCF Communication Subtask					
Total CPU used	0.000000		0.000000		
TCB CPU	0.000000		0.000000		
SRB CPU	0.000000		0.000000		
SRB%	0.00		0.00		
CPU eligible zIIP	0.000000		0.000000		
CPU on normal CP	0.000000		0.000000		
CPU on zIIP	0.000000		0.000000		
zIIP%	0.00		0.00		
# SRB starts	0		0		
Switches TCB -> SRB	0		0		
Switches SRB -> TCB	0		0		
Submit Subtask 01					
Total CPU used	0.000000		0.000000		
TCB CPU	0.000000		0.000000		
SRB CPU	0.000000		0.000000		
SRB%	0.00		0.00		
CPU eligible zIIP	0.000000		0.000000		
CPU on normal CP	0.000000		0.000000		
CPU on zIIP	0.000000		0.000000		

This section contains the same fields as the SASSHR25 report.

### More information:

[zIIP Section](#) (see page 191)

## Submission Selection Section

The Submission Selection section contains information that related to the enhanced job submission selection. This section contains all zeros if SUBSEL=ENH was not specified in the initialization options.

SASSHC25	CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT		07/17/yy 14:29	PAGE	7
Submission Selection Data					
Interval Start	20yy.198 12:35:03		20yy.198 12:35:03		
Interval End	20yy.198 14:28:06		20yy.198 14:28:06		
Interval Length	0 days 01:53:03		0 days 01:53:03		
# CA7 Restarts	0		0		
-----Interval Values-----					
Overview					
Task invocations	1		1		
Jobs selected	0		0		
Avg task processing time	000:00:00.00386		000:00:00.00386		
Average task CPU usage	000:00:00.00016		000:00:00.00016		
Total processing time	000:00:00.00386		000:00:00.00386		
Total CPU usage	000:00:00.00016		000:00:00.00016		
Workload Balancing					
Environment modeling count	0		0		
Average modeling time	000:00:00.00000		000:00:00.00000		
Average modeling CPU usage	000:00:00.00000		000:00:00.00000		
WLB elapsed time	000:00:00.00000		000:00:00.00000		
WLB CPU used	000:00:00.00000		000:00:00.00000		
Candidate Selection					
Database queries	1		1		
Jobs retrieved	0		0		
Jobs considered	0		0		
Average query time	000:00:00.00317		000:00:00.00317		
Average query CPU usage	000:00:00.00004		000:00:00.00004		
Selection elapsed time	000:00:00.00317		000:00:00.00317		
Selection CPU usage	000:00:00.00013		000:00:00.00013		
Negative Requirements					
Jobs with negative rqmts	0		0		
Negative rqmts read	0		0		
RDY/ACT Q jobs checked	0		0		
Neg rqmts not satisfied	0		0		
Average check time	000:00:00.00000		000:00:00.00000		
Average check CPU usage	000:00:00.00000		000:00:00.00000		
Neg rqmts elapsed time	000:00:00.00000		000:00:00.00000		
Neg rqmts CPU usage	000:00:00.00000		000:00:00.00000		
ASX Virtual Resources					
ASX resources checked	0		0		
Resources not satisfied	0		0		
Average check time	000:00:00.00000		000:00:00.00000		
Average check CPU usage	000:00:00.00000		000:00:00.00000		
ASX elapsed time	000:00:00.00000		000:00:00.00000		
ASX CPU usage	000:00:00.00000		000:00:00.00000		
VRM Virtual Resources					
Resources not satisfied	0		0		
Average check time	000:00:00.00000		000:00:00.00000		
Average check CPU usage	000:00:00.00000		000:00:00.00000		
VRM elapsed time	000:00:00.00000		000:00:00.00000		
VRM CPU usage	000:00:00.00000		000:00:00.00000		

This section contains the same fields as the SASSHR25 report.

**More information:**

[Submission Selection Section](#) (see page 194)

## CA Datacom Section

The CA Datacom/AD Section contains information that is related to the CA Datacom/AD database that CA WA CA 7 Edition uses.

SASSHC25	CA WORKLOAD AUTOMATION METRICS COMPARISON REPORT				07/17/yy 14:29	PAGE	8
CA Datacom Information							
Interval Start	20yy.198 12:35:03		20yy.198 12:35:03				
Interval End	20yy.198 14:28:06		20yy.198 14:28:06				
Interval Length	0 days 01:53:03		0 days 01:53:03				
# CA7 Restarts	0		0				
-----Interval Values-----							
AWH Area Utilization							
Total blocks	24,300		24,300				
Average blocks used	2 0.00%		2 0.00%				
HWM	2 20yy.198 12:34:23		2 20yy.198 12:34:23				
LWM	2 20yy.198 12:34:23		2 20yy.198 12:34:23				
AWL Area Utilization							
Total blocks	45,900		45,900				
Average blocks used	2 0.00%		2 0.00%				
HWM	2 20yy.198 12:34:23		2 20yy.198 12:34:23				
LWM	2 20yy.198 12:34:23		2 20yy.198 12:34:23				
AWS Area Utilization							
Total blocks	105,300		105,300				
Average blocks used	4 0.00%		4 0.00%				
HWM	4 20yy.198 12:34:23		4 20yy.198 12:34:23				
LWM	4 20yy.198 12:34:23		4 20yy.198 12:34:23				
DFS Area Utilization							
Total blocks	144,000		144,000				
Average blocks used	1,803 1.25%		1,803 1.25%				
HWM	1,803 20yy.198 12:34:23		1,803 20yy.198 12:34:23				
LWM	1,803 20yy.198 12:34:23		1,803 20yy.198 12:34:23				
HIL Area Utilization							
Total blocks	24,300		24,300				
Average blocks used	17 0.06%		17 0.06%				
HWM	17 20yy.198 12:34:23		17 20yy.198 12:34:23				
LWM	17 20yy.198 12:34:23		17 20yy.198 12:34:23				
HIS Area Utilization							
Total blocks	44,100		44,100				
Average blocks used	91 0.20%		91 0.20%				
HWM	92 20yy.198 14:00:03		92 20yy.198 14:00:03				
LWM	91 20yy.198 12:34:23		91 20yy.198 12:34:23				
IXX Area Utilization							
Total blocks	208,800		208,800				
Average blocks used	98,565 47.20%		98,565 47.20%				
HWM	98,566 20yy.198 13:00:06		98,566 20yy.198 13:00:06				
LWM	98,564 20yy.198 12:34:23		98,564 20yy.198 12:34:23				
JOB Area Utilization							
Total blocks	53,100		53,100				
Average blocks used	2 0.00%		2 0.00%				
HWM	2 20yy.198 12:34:23		2 20yy.198 12:34:23				
LWM	2 20yy.198 12:34:23		2 20yy.198 12:34:23				
MIN Area Utilization							
Total blocks	6		6				
Average blocks used	3 50.00%		3 50.00%				
HWM	3 20yy.198 12:34:23		3 20yy.198 12:34:23				
LWM	3 20yy.198 12:34:23		3 20yy.198 12:34:23				

This section contains the same fields as the SASSHR25 report.

**More information:**

[CA Datacom Section](#) (see page 200)

## Security Exception Report SASSHR30

The Security Exception report displays information about exceptions that external security (that is, CA ACF2, CA Top Secret, or IBM RACF) or CA WA CA 7 Edition detect.

SASSHR30		CA-7 SECURITY EXCEPTIONS					04/02/yy 14:29		PAGE	1
DATE	TIME	TERMINAL	USER	ACCESS TO	DENIED BY	ENTITY	APPL/ ACCESS			
yy.086	09.33.36	A82L903	CA7ROU1	COMMAND	EXTERNAL	XQ	SQM0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2QM1	>	
yy.086	09.33.52	A82L903	CA7ROU1	COMMAND	EXTERNAL	JOB	SDM0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2DB1	>	
yy.086	09.34.22	A82L903	CA7ROU1	COMMAND	EXTERNAL	CANCEL	SPO0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2QPCNCL>		
yy.086	09.37.40	A82L903	CA7ROU1	COMMAND	EXTERNAL	XQ	SQM0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2QM1	>	
yy.086	09.37.43	A82L903	CA7ROU1	COMMAND	EXTERNAL	JOB	SDM0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2DB1	>	
yy.086	09.37.46	A82L903	CA7ROU1	COMMAND	EXTERNAL	JCL	SDM0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2DB7	>	
yy.086	09.38.05	A82L903	CA7DBU1	COMMAND	EXTERNAL	XQ	SQM0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2QM1	>	
yy.086	09.39.11	A82L903	CA7DBU1	COMMAND	EXTERNAL	LQ	SLI0			
					MSG=TSS974E	ACCESS DENIED	PANEL	<L2GILQ	>	
*** E N D O F R E P O R T ***										

Each exception can require two lines on the report. The fields on the first line of each exception are identified with column headings. The second line of each exception is reserved for a diagnostic message either from CA WA CA 7 Edition or from the external security system. Messages beginning with CAL2 are documented in the *Message Reference Guide*.

**DATE**

Identifies the date security exception occurred.

**TIME**

Identifies the time of day security exception occurred.

**TERMINAL**

Identifies one of the following values:

- The LUNAME of the terminal where the security exception occurred if a VTAM terminal.
- The CA WA CA 7 Edition terminal name.
- The submission thread name for agent job submission security exceptions.

**USER**

Identifies the USERID logged on when the security exception occurred.

**ACCESS TO**

Identifies the security exception record was created because access was denied to one of the following values:

**AGENT**

Indicates the user attempted either an agent command or agent job submission, but the user did not have the requisite authority.

**COMMAND**

Indicates the user attempted a CA WA CA 7 Edition command, but the user did not have the requisite authority.

**DATASET**

Indicates the user attempted to access a data set, but the user did not have the requisite authority.

**FUNCTION**

Indicates the user attempted a function from a CA WA CA 7 Edition panel, but the user did not have the authority for the function.

**JOB**

Indicates the user attempted to access the database or the queue information for a job. User was not authorized. Two values appear out to the right: OUID=xxx and JUID=xxx. OUID indicates the UID associated with the user. JUID is the UID of the job.

**SUBCHECK**

Indicates a security exception record was created for one of the following conditions:

- User attempted to submit a job whose JCL contained a USERID. The user did not have the SUBMIT authority for that USERID.
- User attempted to modify the OWNER field of the job definition panel. The user did not have the SUBMIT authority for that change.

**TERMINAL**

Indicates a security exception at LOGON.

**Note:** For more information about SUBCHECK and SUBOWNER, see the *Security Reference Guide*.

**DENIED BY**

Indicates the security exception record was created because one of the following denied access:

**CA-7**

Indicates the CA WA CA 7 Edition native security rejected the access request.

**EXIT**

Indicates a user exit rejected the access request.

**EXTERNAL**

Indicates the external security (such as CA ACF2, CA Top Secret, or IBM RACF) rejected the access request.

**ENTITY**

Indicates the security exception record was created because the user attempted to access an entity and that attempt failed. The entity field differs according to the area for which access was denied. The following values are valid:

**AGENT**

Indicates the entity field contains the data that is related to the requested agent command or agent job submission. The length of the entity field for the agent job submissions ranges up to 160 characters long. This report truncates at 51 characters.

**COMMAND**

Indicates the entity field must contain the name of the CA WA CA 7 Edition command that was attempted.

**DATASET**

Indicates the entity field is blank.

**FUNCTION**

Indicates the entity field must contain the CA WA CA 7 Edition Panel ID for which access was attempted.

**JOB**

Indicates access was denied to the database or queue information for a CA WA CA 7 Edition job. The entity field must contain the name of the job.

**SUBCHECK**

Indicates access was denied to a USERID. The entity field must contain the USERID.

**TERMINAL**

Indicates the entity field is blank.

**APPL/ACCESS**

Specifies one of the following values:

- For a COMMAND exception, this field contains the name of the CA WA CA 7 Edition application.
- For FUNCTION or DATASET exceptions, this field contains the type of access attempted. This type is the access type as it is found in SASSDSCR. The following access types are valid:
  - ADD
  - DELETE
  - READ
  - SUBMIT
  - UPDATE

## Last Logged Status of Jobs Report SASSHR50 (SASSRA01)

The Last Logged Status of Jobs report indicates the last status of a job as it was logged to the CA WA CA 7 Edition log data set. Jobs that are canceled or cleared from the queues by a COLD or FORM start are not included. Jobs are listed in a job name sequence with duplicate job name entries ordered by CA WA CA 7 Edition job number.

**Note:** Differences between clocks on multiple CPUs can distort the determination the LATE status of a job.

SASSRA01-01		CA-7 RECOVERY AID			PAGE	1	
AS OF: 02-01-yy/14:58		LAST LOGGED STATUS OF JOBS					
JOBNAME: XXAIS902	CA-7#: 0630	SYSTEM-NAME: AISC	SCHEDULE-ID: 001	PRIORITY: 100	DRCLASS: TIER1		
QUEUE/RQMTS: PRIOR-RUN		DUE-OUT: 02-01-yy/10:33	OVERRIDES: N/A	CPU-SPEC/RUN:			
ARRIVED: 02-01-yy/10:16:10		DEADLINE: 02-01-yy/10:23	VERIFY: NO	JES-JOB-#:	N/A		
PREV-QUEUE: REQUEST		SUBMIT: N/A	JOB-HELD: NO	LAST-STEP:	N		
LAST-EVENT: COMPLETED		STARTED: 02-01-yy/10:13	NETWORKS: N/A	COMPL-CODE:			
ENTRY-MODE: TRIGGERED		COMPLETED: 02-01-yy/10:16	RETAIN-JCL: NO	INSERT-RMS:			
-----							
JOBNAME: XXAIS902	CA-7#: 0821	SYSTEM-NAME: AISC	SCHEDULE-ID: 001	PRIORITY: 100			
QUEUE/RQMTS: PRIOR-RUN		DUE-OUT: 02-01-yy/12:55	OVERRIDES: N/A	CPU-SPEC/RUN:	ALL-SMF1		
ARRIVED: 02-01-yy/12:46:58		DEADLINE: 02-01-yy/12:45	VERIFY: NO	JES-JOB-#:	7053		
PREV-QUEUE: REQUEST		SUBMIT: N/A	JOB-HELD: NO	LAST-STEP:	N/A		
LAST-EVENT: COMPLETED		STARTED: 02-01-yy/12:43	NETWORKS: N/A	COMPL-CODE:	N/A		
ENTRY-MODE: TRIGGERED		COMPLETED: 02-01-yy/12:46	RETAIN-JCL: NO	INSERT-RMS:	NO		
-----							
JOBNAME: XXFAR030	CA-7#: 0727	SYSTEM-NAME: FARC	SCHEDULE-ID: 002	PRIORITY: 100			
QUEUE/RQMTS: PRIOR-RUN		DUE-OUT: 02-01-yy/14:30	OVERRIDES: N/A	CPU-SPEC/RUN:	NON-EXEC		
ARRIVED: 02-01-yy/13:51:34		DEADLINE: 02-01-yy/14:18	VERIFY: NO	JES-JOB-#:	N/A		
-----							
TOTAL JOBS LISTED: 3							

This report contains the following fields:

**AS OF**

Identifies the date and time-of-day the status shown was in effect. The field corresponds to one of the following items:

- The Through Date and Thru Time that is specified in the request control statement.
- The last log record that is considered in the reconstruction of the status.

**JOBNAME**

Identifies the name of the job as defined to CA WA CA 7 Edition.

**CA-7#**

Identifies the number that CA WA CA 7 Edition assigned to this execution of the job.

**SYSTEM-NAME**

Identifies the user-specified CA WA CA 7 Edition system name to which this job was assigned. Same as SYSTEM on the job definition panel. Shows **\*\*NONE\*\*** when not used or unavailable.

**SCHEDULE-ID**

Identifies the CA WA CA 7 Edition schedule ID for this execution.

**PRIORITY**

Identifies the current CA WA CA 7 Edition priority for this job. The WLB facility of CA WA CA 7 Edition can dynamically alter the value. See PRTY or WLBPRTY on the job definition panel defining initial priority values.

**DRCLASS**

Identifies the resolved disaster recovery class for this job. If the job was defined with a blank disaster recovery class, the DEFCLASS value was used to resolve a disaster recovery class for the job.

**QUEUE/RQMTS**

Identifies the name of the CA WA CA 7 Edition queue in which the job resided as of the last milestone. For the jobs in the request queue, the number of preexecution requirements is appended to the queue name. If in the request queue with no requirements, the job is in SKELETON status. See the field CPU-SPEC/RUN. The name values are one of the following queues:

- ACTIVE
- PRIOR-RUN
- READY
- REQUEST

**ARRIVED**

Identifies the date and time-of-day the job arrived in the queue (see QUEUE/RQMTS). Taken from the log record generation date and time fields.

**PREV-QUEUE**

Identifies the name of the queue in which the job resided before entering the current queue. On initial entry into the CA WA CA 7 Edition system, this value appears as N/A and the QUEUE value is REQUEST.

All other records have one of the following queue names:

- ACTIVE
- READY
- REQUEST

**LAST EVENT**

Indicates the last milestone or event in the life of this job. Values and their meanings are as follows:

**ABENDED**

Indicates that the job terminated due to either a system or user abend.

**COMPLETED**

Indicates CA WA CA 7 Edition finished analyzing and processing a successful job completion.

**COND CODE**

Indicates that the job failed a CA WA CA 7 Edition condition code acceptability test. (See RO and COND-CODE on the job definition panel.)

**INITIATED**

Indicates that the job began to execute (SMF JOB INIT received).

**JCL ERROR**

Indicates that the job terminated with a JCL error.

**JOB ENDED**

Indicates that the job execution ended (SMF JOB TERM received).

**LOADING**

Indicates that the job was completing a LOAD-ONLY execution.

**NO USERID**

Indicates that no valid security ID was found for the job.

**REQUEUED**

Indicates that the job was manually requeued with a CA WA CA 7 Edition REQUEUE command or the Q function of a QM.1 panel.

**SATISFIED**

Indicates all preexecution requirements have been satisfied.

**SCHEDULED**

Indicates the job just entered the request queue.

**SUBMITTED**

Indicates the JCL was submitted.

**ENTRY-MODE**

Indicates the method by which the job was originally scheduled into CA WA CA 7 Edition. Shows one of the following values:

**ARF RCVRY**

Indicates the job was scheduled through an ARF Set Response Action AJ for recovery purposes.

**DEMANDED**

Indicates the job was scheduled through a DEMAND(H) command.

**EXTERNAL**

Indicates the job was submitted outside of CA WA CA 7 Edition.

**LOAD**

Indicates the job was scheduled through a LOAD(H) command.

**PS**

Indicates the job was scheduled using the Submit function from the Personal Scheduling panel.

**REPEATED**

Indicates the job was scheduled as a repeat job. A repeat job repeats on an interval after the first occurrence of the job was date/time scheduled.

**RUN**

Indicates the job was scheduled through a RUN(H) command.

**SCHD SCAN**

Indicates the job was scheduled through Schedule Scan based on date and time values.

**TRIGGERED**

Indicates the completion of another job, completion of a network, or creation of a data set triggered the job.

**X-DEMAND**

Indicates the job was scheduled from an XPS CLIENT using the DEMAND command.

**X-PLATFRM**

Indicates the job was scheduled from an XPS CLIENT using the RUN command with the REF option.

**X-RUN**

Indicates the job was scheduled from an XPS CLIENT using the RUN command.

**Note:** No commands are generated in the SASSRA02 report for XPS SERVER jobs (jobs whose entry mode begins with "X-").

**DUE-OUT**

Specifies the date and time-of-day the job was scheduled to be completed. If this date/time is earlier than the AS OF value shown, two asterisks are appended to indicate late status. Also is flagged as late if the COMPLETED time occurred after the DUE-OUT time.

**DEADLINE**

Specifies the date and time-of-day of the latest start time for this job. Is flagged with asterisks to indicate late status whenever the AS OF value shown is after this value if the job has not STARTED.

**SUBMIT**

Specifies one of the following: If the job had a required submit time defined to CA WA CA 7 Edition, this shows the date and time-of-day. Flagged with asterisks to indicate late status whenever the AS OF value shown is after this value. N/A means there is no submit time requirement.

**STARTED**

Specifies the most recent date and time-of-day that execution began for those jobs that have started to execute at least once for the current attempt to run the job. If restarted, reflects the date and time-of-day of the most recent job initiation. If the job was never successfully initiated, this field contains N/A unless the first step has completed execution.

**COMPLETED**

Specifies the date and time-of-day execution ended for jobs that reached an execution termination. If no job completion occurred, contains N/A.

**OVERRIDES**

Indicates the status of any JCL overrides that were defined, made, or both. After queue entry has passed, the value is one of the following:

**\*SKELETON\***

Indicates the job has only reached queue entry, and has not yet been flagged for usage.

**APPLIED**

Indicates the user has already applied overrides to satisfy a previously defined need. See JCL-OVRD on the DB.1 panel and the CA WA CA 7 Edition JCLOVRD command.

**N/A**

Indicates no override requirement of any type was specified for this run of this job.

**NEEDED**

Indicates either the user specified that overrides were required (see the preceding APPLIED value) or CA WA CA 7 Edition defined this requirement for a job that terminated unsuccessfully.

**OVRD-LIB**

Indicates overrides were defined as being made in the CA WA CA 7 Edition override library. See USE-OVRD-LIB on the job definition panel.

**VERIFY**

Indicates a manual verification requirement for the job. See the VERIFY field on the job definition panel and the VERIFY command. Shows either YES or NO in this field.

**JOB-HELD**

Indicates whether the job was being held for any reason. Value is one of the following:

**\*SKELETON\***

Indicates the job has only reached queue entry, and no data has yet been posted.

**MANUALLY**

Indicates a HOLD command was issued.

**NO**

Indicates the job was never held.

**RELEASED**

Indicates a previously specified HOLD was released.

**SCHEDULED**

Indicates the job definition panel specified HOLD=Y.

**NETWORKS**

Indicates whether any workstation networks were associated with this job. Value is one of the following:

**\*SKELETON\***

Indicates the job has only reached queue entry, and no data has yet been posted.

**N/A**

Indicates no networks associated with the job.

**POST**

Indicates the job has only postprocessing networks.

**PRE**

Indicates the job has only preprocessing networks.

**PRE/POST**

Indicates the job has both preprocessing and postprocessing networks.

**RETAIN-JCL**

Indicates whether to save the JCL or the XPJOB parameter information in the prior-run queue on successful completion of the job. (See RETAIN-JCL on the DB.1 panel or Retain on the DB.10 panel.) Value is one of the following:

**\*SKELETON\***

Indicates the job has only reached queue entry, and has not yet been flagged for JCL retention.

**NO**

Indicates *not* to save the JCL.

**YES**

Indicates to save the JCL on successful job completion.

### **CPU-SPEC RUN**

Indicates CPU values for the job. Value is one of the following:

#### **\*SKELETON\***

Indicates the job has only reached queue entry, and no data has yet been posted.

#### **NON-EXEC**

Indicates the job has been defined as being nonexecutable. See the EXEC field on the job definition panel.

#### ***rrrr-aaaa(nnnnnnnn)***

Indicates all executable jobs.

#### ***rrrr***

Indicates the requested main ID. See MAINID on the DB.1 panel. Shows ALL, SYn, or /SYn where *n* is the specified main ID. For agent jobs, indicates the agent job type.

#### ***aaaa***

Specifies one of the following:

The actual CPU ID taken from the SMF feedback, where job execution occurred.

7UNI for CA7TOUNI jobs.

7XPJ for XPJOBS.

AGJ for agent jobs.

A *rrrr* value with a trailing dash (*rrrr-*) and no *aaaa* value indicates that the job was requeued from the ready queue.

#### ***nnn..n***

Displays only for jobs running at a remote NJE node with CA WA CA 7 Edition NCF support. These jobs have the node name that is shown here exactly as they appear in the NCF node table. When the node ID cannot be found in the NCF node table or the table cannot be loaded, the node number that is defined to CA WA CA 7 Edition is shown here as NODE xx. xx is the two-digit hexadecimal node ID value is given.

**JES-JOB-#**

Specifies the JES job number that was assigned to jobs that have executed or have started execution at least once. This field shows N/A for the following jobs:

- XPJOB jobs.
- CA7TOUNI jobs that executed successfully.
- Jobs that have not executed.

This field contains the value \*NONE\* if the job is submitted but not yet started (regular CPU jobs only).

**LAST-STEP**

Specifies the following values: For jobs in the request queue immediately following a job termination, this field shows the name of the last job step that executed. The job shows \*\*NONE\*\* for the following situations:

- The job was initiated but flushed without executing any steps.
- No step termination records have been received.

At all other times, this field shows N/A.

**COMPL-CODE**

Contains N/A except for jobs that have completed executing and are in the request queue for job completion processing. In that case, the highest completion code that any of the steps in the job returned appears here. For abends, this field is in the format Sxxx and Uxxxx for the system and the user abends respectively. (See the LAST-EVENT and LAST-STEP field descriptions.)

**INSERT-RMS**

Specifies either YES or NO, depending on the value that is given for the job in the INSERT-RMS field on the DB.1 panel. When YES, CA WA CA 7 Edition is inserting the JCL for CA WA Restart Option at job submission time.

**TOTAL JOBS LISTED**

Provides a simple count of the number of jobs that are listed on this report. Each job name/CA7# is counted separately.

## Generated Batch Terminal Interface Commands Report SASSHR50 (SASSRA02)

The Generated Batch Terminal Interface Commands report lists the commands generated and written to the COMMANDS data set. A DEMAND(H) command is generated for every job that was in the request, ready, and active queues except those brought in by LOAD(H) or RUN(H) commands. These commands can be useful in restoring the status of the queues following a total system failure that destroyed the contents of one or more of the CA WA CA 7 Edition queues.

**Note:** This report is generated only when DEMAND or DEMANDH is entered into the type 50 control statement. If used, we recommend DEMANDH.

SASSRA02-01	CA-7 RECOVERY AID	PAGE	1
AS OF: 02-01-yy/23:59	GENERATED BATCH TERMINAL INTERFACE COMMANDS		
<pre>/LOGON * OPERATOR ID GOES HERE * DEMAND ,JOB=XXAIS907 ,SCHID=001 ,TYPE=RES DEMAND ,JOB=XXCIF004 ,SCHID=001 ,TYPE=RES DEMAND ,JOB=XXCMS046 ,SCHID=001 DEMAND ,JOB=XXCMS048 ,SCHID=001 DEMAND ,JOB=XXCNA005 ,SCHID=001 DEMAND ,JOB=XXCNA400 ,SCHID=001 DEMAND ,JOB=XXILA105 ,SCHID=001 DEMAND ,JOB=XXILA710 ,SCHID=001 DEMAND ,JOB=XXCIF010 ,SCHID=001 DEMAND ,JOB=XXCIF220 ,SCHID=001 ,TYPE=RES DEMAND ,JOB=XXCIN150 ,SCHID=001 ,TYPE=RES DEMAND ,JOB=XXFIS045 ,SCHID=001 DEMAND ,JOB=XXCIF010 ,SCHID=001 DEMAND ,JOB=XXCIF285 ,SCHID=001 DEMAND ,JOB=XXCIN010 ,SCHID=001 DEMAND ,JOB=XXCIN015 ,SCHID=003 /LOGOFF</pre>			
TOTAL COMMANDS: 18	TOTAL JOBS: 16		

This report contains the following fields:

### AS OF

Specifies the date and time-of-day that corresponds to the through date and time specified in the request control statement or the last log record considered in the reconstruction of the status. This field should agree with the AS OF values on the corresponding SASSRA01 and SASSRA02 reports.

### /LOGON

/LOGON is the required first command in all batch terminal interface input data sets. The command shown is as it appears in the COMMANDS data set. The command must have the operator ID entered by the user before executing the commands. The command contains the following character string where the operator ID is required: \* OPERATOR ID GOES HERE \*.

**DEMAND**

Specifies the command type generated. The type is taken from the request control statement and is either DEMAND or DEMANDH. DEMANDH is the recommended value if used.

**JOB=**

Specifies the name of the CPU job that is being requested.

**SCHID=**

Specifies the schedule ID under which the job is to run.

**TYPE=**

Specifies the generated value for jobs that were in the active queue *only*. When included, causes reexecution of the job to be handled as a restart. Is not included for jobs that were in the request or ready queues.

**/LOGOFF**

/LOGOFF is the required last command in all batch terminal interface input data sets. This command is generated exactly as shown here.

**TOTAL COMMANDS**

Specifies a count of the total number of commands generated and listed including the /LOGON and /LOGOFF commands.

**TOTAL JOBS**

Specifies a count of the DEMAND-type commands generated and listed. Should always be two less than TOTAL COMMANDS.

## Simulated LQ Display of Jobs Report SASSHR50 (SASSRA03)

The Simulated LQ Display of Jobs report lists information about all production activity from the request, ready, and active queues. The report reflects the same information that would have been available through the CA WA CA 7 Edition LQ command if queues had not been lost. The report shows the status as of the date and time-of-day appearing in the AS OF field. Jobs are listed in a job name sequence with duplicate job name entries ordered by the CA WA CA 7 Edition job number.

**Note:** This report is always generated with report SASSRA01 whenever the type 50 request control statement is used.

SASSRA03-01		CA-7 RECOVERY AID										PAGE	1
AS OF: 02-01-yy/15:00		SIMULATED LQ DISPLAY OF JOBS											
JOB NAME	QUEUE NAME	CA-7 NUM	-DAY(DDD) DEADLINE	AND SUB/START	TIME(HHMM) -- DUE-OUT	CPU SPEC/RUN	SCH ID	ENTRY MODE	MSTR REQ	JOB STATUS			
XXAIS902	PRN	0630	032/1023	032/1013	032/1033	ALL-E09A	001	AUTO		C-C0000			
XXAIS902	PRN	0821	032/1245	032/1243	032/1255	ALL-E09A	001	AUTO		C-C0012			
XXFAR030	PRN	0727	032/1418	032/1346	032/1430	ALL-E09A	002	AUTO		C-C0500			
XXFPL010	REQ	0911	032/1627	032/1615	032/1635	ALL	001	SSCN	0001	RQMT INC			
XXHRS305	PRN	0711	032/1234	032/1135	032/1234	ALL-E09A	102	DEMD		C-C0500			
XXHRS310	PRN	0835	032/1356	032/1256	032/1356	ALL-E09A	101	DEMD		C-C0500			
XXHRS315	PRN	0949	032/1545	032/1445	032/1545	ALL-E09A	001	DEMD		C-C0500			
XXHRS385	REQ	0877	033/0014	032/2330	033/0030	ALL	101	AUTO	0006	RQMT INC			
XXHRS390	REQ	0878	033/0010	032/2300	033/0030	ALL	101	AUTO	0004	RQMT INC			
XXHRS405	PRN	0544	032/1006	032/0907	032/1006	ALL-E09A	001	DEMD		C-C0500			
XXHRS445	PRN	0569	032/1022	032/0923	032/1022	ALL-E09A	001	DEMD		C-C0505			
XXPEP005	PRN	0679	032/1207	032/1107	032/1207	ALL-E09A	001	DEMD		C-C0505			
XXPEP010	PRN	0570	032/1023	032/0923	032/1023	ALL-E09A	001	DEMD		C-C0505			
XXPEP010	PRN	0723	032/1246	032/1146	032/1246	ALL-E09A	001	DEMD		C-C0505			
XXPEP030	PRN	0586	032/0949	032/0939	032/1038	ALL-E09A	001	AUTO		C-C0500			
TOTAL JOBS LISTED:		15											

This report contains the following fields:

### AS OF

Specifies the date and time-of-day the status shown was in effect. The field corresponds to one of the following:

- The Through Date and Thru Time specified in the request control statement.
- The last log record considered in the reconstruction of the status.

### JOB NAME

Specifies the name of the job as defined to the product.

**QUEUE NAME**

Specifies the name of the queue in which this job last resided. The following are the queue names:

- ACT
- PRN
- RDY
- REQ

**CA-7 NUM**

Specifies the number assigned to the job by the product.

**DAY(DDD) AND TIME (HHMM) DEADLINE**

Specifies the date and time-of-day of the latest start time for the job. The format is Julian *ddd/hhmm*.

**DAY(DDD) AND TIME (HHMM) SUB/START**

Specifies the date and time-of-day the job either started execution, was scheduled to be submitted, or when JCL was written to the internal reader or a submit data set. The format is Julian *ddd/hhmm*.

**DAY(DDD) AND TIME (HHMM) DUEOUT**

Specifies the date and time-of-day the job was scheduled to be completed. The format is Julian *ddd/hhmm*.

**CPU SPEC/RUN**

Indicates CPU values for the job. Value can be one of the following:

**\*SKELETON\***

Indicates the job has only reached queue entry, but requirements have not been posted and the JCL has not been attached.

**\*NOEX\***

Indicates the job has been defined as being nonexecutable. (See the EXEC field on the job definition panel.)

**rrr-aaaa**

Indicates all executable jobs.

**rrr**

Indicates the requested main ID. See MAINID on the DB.1 panel. Shows ALL, SYn, or SYn where *n* is the specified main ID. For agent jobs, indicates the agent job type.

**aaaa**

Specifies one of the following:

The actual CPU ID as shown in the SMF feedback. This value is only shown for jobs that have started or completed execution.

7UNI for CA7TOUNI jobs.

7XPJ for XPJOBS.

AGJ for agent jobs.

**Note:** A *rrrr* value with a trailing dash (*rrrr-*) and no *aaaa* value indicates the job was requested from the ready queue.

**SCH ID**

Indicates the CA WA CA 7 Edition schedule ID for this execution of the job.

**ENTRY MODE**

Indicates how the job was originally scheduled into CA WA CA 7 Edition. Shows one of the following values:

**ARFJ**

Indicates the job was scheduled through an ARF Set Response Action AJ for recovery purposes.

**AUTO**

Indicates another job, an input workstation network, or by creation of a data set triggered the job.

**DEM\***

If ARF detects an exception condition for the job, the last character of this field has an asterisk as in the following example: DEM\*

**DEMD**

Indicates the job was scheduled through the DEMAND command.

**LOAD**

Indicates the job was scheduled through a LOAD command.

**PS**

Indicates the job was scheduled using the Submit function from the Personnel Scheduling panel.

**RPET**

Indicates the job was scheduled as a repeat job. A repeat job repeats on an interval after the first occurrence of the job was date/time scheduled.

**RUN**

Indicates the job was scheduled through a RUN command.

**SSCN**

Indicates the job was scheduled through Schedule Scan based on date and time values.

**XDEM**

Indicates the job was scheduled through the DEMAND command from an XPS CLIENT.

**XPS**

Indicates the job was scheduled from an XPS CLIENT using the RUN command with the REF option.

**XRUN**

Indicates the job was scheduled from an XPS CLIENT using the RUN command.

**Note:** No commands are generated in the SASSRA02 report for XPS SERVER jobs (jobs whose entry mode begins with "X").

**MSTR REQ**

Indicates the number of outstanding preexecution requirements that must be satisfied before execution can begin. For non-SKELETON records, shows a count only if greater than zero. Applies only to jobs in the request queue.

**JOB STATUS**

Indicates whether a job is late, in SKELETON status or, for completed jobs, the abend or condition code values.

**TOTAL JOBS LISTED**

Provides a simple count of the total number of jobs that are listed in the report.

## Request Queue Recovery Aid Commands SASSHR51

The Request Queue Recovery Aid Commands report lists information about jobs that have not processed because the CA WA CA 7 Edition request queue was full. This report specifically relates to the request queue. The report is not for the trailer queue, scratch queue, or any other queue full condition.

If a request queue full condition does occur, also use the REQUEUE,FORCE=CMP command. This command resumes job completion for jobs stranded in the active queue (for example, jobs that cannot get back to the request queue).

**Note:** For more information about the REQUEUE command, see the *Command Reference Guide*.

RECORD TYPE	TERMINAL ID	COMMANDS
SASSHR51 CA-7 REQUEST QUEUE RECOVERY AID COMMANDS 06/02/yy 15:52 PAGE 1		
COMMAND	VTM001	DEMANDH, JOB=CA07CLEN, SCHID=001
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0156
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0156
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0156
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0156
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0156
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0002, STOP=0156
TRIGGER		DEMAND, JOB=TESTJOBA, SCHID=001
COMMAND	VTM001	DEMAND, JOB=TESTJOB, SCHID=001
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157
REPEAT		DEMAND, JOB=PSEDJOBA, SCHID=001, INTERVAL=0005, TYPE=CLOCK, COUNT=0001, STOP=0157

This report contains the following fields:

### RECORD TYPE

Identifies one of the following reasons that the entry was created:

#### COMMAND

Identifies a job requested using the DEMAND, RUN, or LOAD commands.

#### REPEAT

Identifies a job requested as a result of a repeat definition.

**Note:** The REPEAT record type does not generate a command for the COMMANDS data set. Also, these entries do not show all the possible keywords that were entered, for example, TIME=.

**TRIGGER**

Identifies a job that another job or data set triggers.

**TERMINAL ID**

Identifies a terminal ID from which the data was logged. This value is only available for COMMAND record types.

**COMMANDS**

Identifies commands and parameters.

## Generated Batch Terminal Interface Commands SASSHR51

The Generated Batch Terminal Interface Commands report lists the commands generated and written to the COMMANDS data set. These commands can be useful in restoring the status of the request queue following a request queue full condition. This data set includes only jobs requested as a result of a command (for example, DEMAND, RUN, or LOAD).

```
/LOGON MASTER
DEMANDH, JOB=CA07CLEN, SCHID=001
DEMAND, JOB=TESTJOB, SCHID=001
DEMAND, JOB=CUSER01B, SCHID=001
DEMANDH, JOB=CA07CLEN, SCHID=001
DEMAND, JOB=TESTJOB, SCHID=001
/LOGOFF
```

This report contains the following fields:

**/LOGON**

/LOGON is the first required command in all batch terminal interface data sets. The command must have a unique operator ID entered by the user before executing the commands. The command contains the following character string where the operator ID is required: MASTER.

**DEMAND(H),...**

Commands to request jobs that were not requested because the CA WA CA 7 Edition request queue was full.

**/LOGOFF**

/LOGOFF is the last required command in all batch terminal interface data sets. The command is generated exactly as shown.

## Internal Activity Trace Report SASSHR70

The Internal Activity Trace report provides a chronological synopsis of internal events. The report provides a condensed picture of the same data that is shown on the SASSHR03 report. This report can answer many questions with much less print than SASSHR03 produces. Seeing the contents of all log record fields still requires the use of SASSHR03.

SASSHR70		CA-7 INTERNAL ACTIVITY TRACE		07/14/yy	16:02	PAGE	1
EVENT	HMMSSSTH	DESCRIPTION	LOG DATE: yy.ddd				
43 BROWSE	15584431	-----yy.058 15:58:44					
43 BROWSE	15584431	SIR0-12 INITIAL REQUIREMENTS SCAN COMPLETED AT 15:58:44 ON yy.058.					
43 BROWSE	15584431	-----yy.058 15:58:44					
43 BROWSE	15584431	SCNJ-13 JOB SCHEDULE SCAN COMPLETED AT 15:58:44 ON yy.058.					
43 BROWSE	15584441	SCN0-13 SCHEDULE SCAN COMPLETED AT 15:58:44 ON yy.058.					
43 BROWSE	15584447	SCN0-12 NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.058 AT 1758.					
43 BROWSE	15584447	***** TO SCAN NEXT INTERVAL *****					
67 SCHED SCAN	15584447	ECF=INITIAL TYP=LOADS					
72 INPUT	15584669	TRM=VTM001 TXT=/DISPLAY,DB=LOG					
73 OUTPUT	15584836	TRM=VTM001					
72 INPUT	15585400	TRM=VTM001 TXT=DEMANDH,JOB=C					
69 JQREC MOVE	15585745	F/T=DEM/SKL JOB=0001/C JCL=00000 #J.=00000 #X.=00000 #.=00000 SCC=00000 MCT=00000					
A1 APA STATS	15590243						
43 BROWSE	15590253						
43 BROWSE	15590253	SP07-10 JOB C (0001) ENTERED INTO REQUEST 'Q',					
43 BROWSE	15590264	DUE-OUT ON yy.058 AT 1658.					
69 JQREC MOVE	15590291	F/T=SKL/REQ JOB=0001/C JCL=00020 #J.=00002 #X.=00002 #.=00001 SCC=00000 MCT=00001					
75 QUEUE POST	15590291	TYP=X'09' JOB=0001/C					
43 BROWSE	15590375						
43 BROWSE	15590375						
43 BROWSE	15590375	SIRD-11 **** JOB=C (0001) EXECUTION REQUIREMENTS **** JCLID=000					
43 BROWSE	15590375	SYSTEM= DESC=					
43 BROWSE	15590380	DUE-OUT yy.058/1658 DEAD-LINE yy.058/1658 MAINID=					
43 BROWSE	15590380	SCHID=001 PROSE#=#*NONE** ERQD=000 ENSAT=000 IRQD=000 INSAT=000					
43 BROWSE	15590380	MCNT=001 FLAGS=24/08/20/02/80/1A/02					
43 BROWSE	15590380						
43 BROWSE	15590380	*** REQUIREMENTS ***					
43 BROWSE	15590386						
43 BROWSE	15590386	JOB ON HOLD					
43 BROWSE	15590386	SIRD-12 END OF REQUIREMENTS FOR JOB=C (0001).					
67 SCHED SCAN	15590386	ECF=INITIAL TYP=LOADS					
43 BROWSE	15590386	SCN0-12 NEXT SCHEDULE SCAN WAKE-UP TIME IS yy.058 AT 1658.					
43 BROWSE	15590387	***** FOR A REQ 'Q' PROMPT *****					
67 SCHED SCAN	15590387	ECF=INITIAL TYP=LOADS					
72 INPUT	15590986	TRM=VTM001 TXT=XRQ,JOB=1					
72 INPUT	15591249	TRM=VTM001 TXT=AOC AY0001 C1X C3HLD D# RA R.00000000 RN00					
75 QUEUE POST	15591284	TYP=X'02' JOB=0001/C					
68 START SSM0	15591288						
69 JQREC MOVE	15591366	F/T=REQ/RDY JOB=0001/C					
72 INPUT	15592005	TRM=VTM001 TXT=LQ					
68 SUBMIT START	15592086	JOB=0001/C					
68 SUBMIT START	15592121	JOB=0001/C					
69 SUBMITTED	15592121	F/T=RDY/*** JOB=0001/C JCL=00018					
68 SSM0 ENDED	15592246						
72 INPUT	15593346	TRM=VTM001 TXT=/LOG,D=TEST FOR SASSHR70					
81 /LOG	15593369	TRM=					
72 INPUT	15594111	TRM=VTM001 TXT=/LOGON LEVEL13					
72 INPUT	15594918	TRM=VTM001 TXT=/DISPLAY,0=ALL					
C1 SECURITY	15594906	TRM=VTM001 REJ=COMMAND					

This report contains the following fields:

**EVENT**

Identifies the internal event ID consisting of the hexadecimal record type followed by a brief term for the event that record type represents. Possible values are as follows:

- 04 STEP TERM
- 05 JOB TERM
- 0E INPUT DSN
- 0F OUTPUT DSN
- 14 JOB INIT
- 1A JOB PURGE
- 43 BROWSE
- 64 STARTUP
- 65 SHUT DOWN
- 67 SCHED SCAN
- 68 SSM0 ENDED
- 68 START SSM0
- 69 JQREC MOVE
- 69 SUBMITTED
- 72 INPUT
- 73 OUTPUT
- 75 QUEUE POST
- 76 UJV CANCEL
- 81 /LOG
- 82 SCHD NOT RUN
- 83 VRM POST
- 84 VRM ERROR
- 85 VRM EVAL
- 86 XNODE Command Activity
- 87 XPJOB Trace Activity

- 8A ARF Activity
- 90 LOAD - JOB
- 91 LOAD - STEP
- 92 LOAD - DD
- 93 LOAD - RQMT
- 94 LOAD - DSN
- 98 SVC CLOSE
- 99 SVC POST DSN
- A1 APA STATS
- A2 CONTROL BLK
- A3 SASSXX10 JOB
- A4 Time Capture
- AF ARF Statistics
- C1 SECURITY
- C9 AUTOREQUEUE IPL
- D1 Jobflow Monitor
- E7 XCF Sync

**Note:** For more information about each record type, see the SASS7LOG macro.

### HHMMSSTH

Identifies the time-of-day at which the log record for this event was written.

### DESCRIPTION

Contains some of the more commonly referenced fields copied or derived from the log data. Up to 92 characters are printed. Additional characters are truncated. Fields shown vary by log record type. For some events, such as A1 APA STATS, nothing is shown in this column. The following can appear in different combinations depending on which event appears in the EVENT column:

- #.= see log record JQREC field JQNPOUND description
- #J.= see log record JQREC field JQNJIJO description
- #X.= see log record JQREC field JQNXIXO description
- BLK= control block ID
- CUS= customer name
- DSN= data set name
- DWL= dwell time (log record time minus SMF time)
- ECF= see log record field L67ECF description

- F/T= from-ID/to-ID
  - from-ID and to-ID values can appear as follows:
    - \*\*\* - not applicable
    - ACT - Active queue
    - AUT - Schedule trigger
    - DEM - DEMAND command
    - LOA - LOAD command
    - PRE - Preprocessing queue
    - PRN - Prior-run queue
    - PST - Postprocessing queue
    - RDY - Ready queue
    - REQ - Request queue
    - RUN - RUN command
    - SCN - Schedule scan
    - SKL - Skeleton queue record
    - SUB - SUBMIT command
- J= job name
- JCL= see log record JQREC field JQNJCL description
- JES= JES number
- JOB= job name
- Job Type
  - AGENT JOB
  - XP JOB
  - XP EXT JOB
  - UNI JOB
- MCT= see log record JQREC field JQMCNT description
- R= resource name
- REA= reason
- REJ= security rejection
- S= step name
- SCC= see log record JQREC field JQNBRS CC description
- SID= system ID field from SMF
- STN= stationnumber/stationname
- STP= stepnumber/stepname

- TRM= terminal ID
- TXT= text data
- TYP= see log record fields L64ITYPE, L67ECF, L75RECTY descriptions
- QUE= see log record field L64QCNTRL description
- VER= CA WA CA 7 Edition version ID

#### LOG DATE

Specifies the date on which the log records were written. This date only appears in the heading, not on each line. **Note:** The BROWSE divider line (-----...---- yy.ddd hh:mm ss) can appear differently for records created in different releases. The date is displayed only in records created with CA WA CA 7 Edition Version 12.0.00 or higher. Earlier releases generate only a timestamp.

**Note:** The BROWSE divider line (-----...---- yy.ddd hh:mm ss) can appear differently for records created in different releases. The date is displayed only in records created with CA WA CA 7 Edition Version 12.0.00 or higher. Earlier releases generate only a timestamp.

## SASSXTRK Log Extract Program

The SASSXTRK program is a tool for the support personnel to use. This program extracts records from the CA WA CA 7 Edition log file based on a specific job name. Other management reporting jobs use the output file to produce reports. This program only produces a control statement edit report.

SASSXTRK can also extract a specific range of log records based on date and time.

## SASSXTRK Control Statement Description

#### Job Name

Specifies the name of the job to report. An asterisk (\*) denotes a generic request. The first character must be a nonblank character. The field terminates with the first blank found.

If the first character of the job name is asterisk (\*), all log records for the date/time range specified are extracted. The FROM DATE and TO DATE fields are required when the first character is an asterisk.

- Positions: 01-08
- Value: alphanumeric
- Required: yes
- Default: none

**From Date**

Indicates the Start Date for records to extract.

- Positions: 10-14
- Value: numeric (in *yyddd* format)
- Required: no (unless first character of the job name is \*)
- Default: 00000

**From Time**

Indicates the Start Time for records to extract.

- Positions: 15-18
- Value: numeric (*hhmm*)
- Required: no
- Default: 0000

**To Date**

Indicates the Ending Date for records to extract.

- Positions: 20-24
- Value: numeric (*yyddd*)
- Required: no (unless first character of the job name is \*)
- Default: highest date in log file

**To Time**

Indicates the Ending Time for records to extract.

- Positions: 25-28
- Value: numeric (*hhmm*)
- Required: no
- Default: 2400

## SASSXTRK Program

The following sample JCL is used to execute the SASSXTRK program.

```
//jobname      JOB ...
//EXTRACT      EXEC PGM=SASSXTRK
//STEPLIB     DD DISP=SHR,DSN=user-supplied-CA-7-loadlib
//LOGIN        DD DISP=SHR,DSN=user-supplied-CA-7-logtape
//LOGOUT       DD DISP=(NEW,CATLG,DELETE),DSN=extracted.file,
//             UNIT=SYSDA,SPACE=(CYL,(10,5),RLSE),
//             DCB=(RECFM=VB,LRECL=2100,BLKSIZE=21004)
//SYSOUT       DD SYSOUT=*
//SYSIN        DD *
jobname       yydddhmm yydddhmm
/*
```

### LOGIN

DD is used as input for this program. This DD statement is required. This file can be the history LOGTAPE or the DASD LOGP or LOGS file. The LRECL can only be 1400 or 2100.

### LOGOUT

DD is used as output for this program. This DD statement is required. This file can be DASD or tape. The LRECL is copied from the LOGIN DD statement. This file contains a copy of the log records that were selected.

### SYSOUT

DD is used as output for this program. This DD statement is required. This file contains information from the control statement edit routine and possibly some error messages.

### SYSIN

DD is used as input for this program. This DD statement is required. The selection criteria is taken from this DD statement. Currently only one control statement per execution is supported.

# Chapter 4: Workload Planning

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This section contains the following topics:

[Overview](#) (see page 261)

[Workload Planning Reports](#) (see page 266)

[WLP Online Data Generator](#) (see page 284)

[WLP Control Statements](#) (see page 291)

[Use Workload Planning](#) (see page 299)

## Overview

CA WA CA 7 Edition includes several tools. The tools provide information about the production workload of a data center. History Reporting and Automated Performance Analysis (APA) provide information about what has already happened in the data center. Online inquiry facilities provide information about what is currently happening. Various Forecast commands project what happens based on the requirements of the production workload as currently defined.

Workload planning (WLP) simulates and reports on what could have happened in the data center. WLP bases its findings on a combination of historical workload information and potential processing alternatives. WLP can also simulate and report on what happens given new processing objectives for the existing workload as defined in the CA WA CA 7 Edition database. Modeling and simulation techniques are employed to accomplish this reporting.

WLP assists data center management with planning workload schedules and resource use. This planning function is provided in batch mode, separate and apart from real-time control over the production workload, for several reasons:

- Poor or erroneous assumptions made in a planning exercise usually have no automatic, direct impact on actual workload processing. Eliminate errors by replanning without disrupting the ongoing needs of getting the work done.
- Special or one-time uses of planning facilities for situations such as disaster contingency planning, or exploring alternatives such as hardware upgrades, have no direct relationship to daily processing procedures.

- Planning personnel can perform planning activities concurrently yet independent of ongoing processing activities.
- Unlike the ongoing demands for control over workload processing, make planning an optional exercise to perform only when considering changes or alternatives.
- VRM definitions are processed in the projection; but VRM types of ASX and CRQ cannot be handled with WLP. They are ignored.

The following topics introduce common uses, special uses, data flow, and limitations on using workload planning.

## Common Uses

WLP can study the effects of changing the processing performed on a particular day or even a particular shift. For example, a data center manager can use the History Management report to locate a log history file containing run information for the time frame in question. With this file used as input, WLP simulates a previous time frame run taking abends, reruns and on-request work into account, and creates workload planning reports. The reports are a key tool in studying processing alternatives. They provide job and resource performance data for the particular time frame.

The manager can now begin to study, for example, the effects of omitting one job from the run or adding a tape drive to the available resource pool.

A simulated workload model can be produced, using CA WA CA 7 Edition database job and resource data reflecting the same time frame. The online FWLP command extracts this data from the database and creates a file that can be edited before a simulation run. Once the file has been edited, WLP can be used to simulate and report on the run. The resulting reports, when compared to those reports produced from log history data, project what effect changing the workload or the processing objectives has on production work flow and resource use.

WLP is also helpful in establishing a proper balance between production processing, testing, and stand-alone time such as Preventive Maintenance (PM) or dedicated test time. CA WA CA 7 Edition does not capture or report on testing or PM. Workload planning reports on production requirements can, however, identify what time and resources are not available for testing and stand-alone time. Decisions on when and how much time and resources to provide programmers, customer engineers, and so forth, can be easily and more accurately made based on the slack time identified by these reports.

Data center management is continuously involved in the process of finding an optimum balance between job work flow and resource use. Ultimately, the goal of a data center is to run every job or application on schedule while maximizing use of the available resources. WLP is designed to provide a means of reaching and maintaining this goal. Automated Performance Analysis (APA) graphs show how many jobs are late or early. WLP lets managers simulate specific alternatives in job schedules or processing environments to achieve better throughput. WLP shows how you can reasonably expect work flow to occur when, for example, a group of jobs that have historically run late are submitted earlier.

If the jobs and available resources remained constant, the task of balancing work flow requirements and resource use is relatively simple. In most cases, however, the demands on data centers are continually growing. Growth can be significant although no new applications are being implemented. Manufacturers are constantly adding new parts to inventory. Banks are constantly adding new customers to their customer files. Payroll files grow as companies gain new employees. In each case, the elapsed time of jobs using these files can increase significantly.

Eventually, such increases in production workload can require hardware upgrades like faster CPUs or more tape drives and initiators. Occasional use of WLP helps prevent these subtle increases in demand from suddenly exhausting the available resources.

CA WA CA 7 Edition workload balancing provides real-time balancing of production work to yield optimum use of resources while monitoring work flow through completion and delivery deadlines. Processing objectives, as defined to workload balancing, are subject to change as new requirements or environments occur. Changes to these definitions can be simulated with WLP before implementing the changes in the production environment. Assume, for example, new peripherals or a new CPU can be expected to cause all jobs to run 10 percent faster. WLP can simulate this using a user-supplied elapsed time factor. An Hourly Usage Projection report can show that, under normal circumstances, the use of one type of tape drive approaches maximum capacity at all times. If requirements for this type of drive are expected to increase, WLP can simulate the use of additional drives.

Typically resources available for production batch processing change on a shift-to-shift basis. In the daytime, for example, a majority of CPU resources are allocated for processing online transactions. At night, a reduction in the number of these transactions frees up available resources. The freed resources enable an entire online system such as IMS to be shut down, and thus providing more resources for batch processing. Workload balancing can handle these environmental changes in real time whether they are scheduled or not scheduled. Simulating their impact on overnight batch production processing, however, assists a data center in developing and planning procedures for handling the changes. This simulation is true for unexpected, last-minute requests to keep up the online system beyond the normal scheduled time.

## Special Uses

WLP can also assist in disaster recovery or backup configuration planning. With WLP, the data center can define workload and resource models and project the requirements of this workload/configuration combination. The workload demand and available capacity cannot be the same as normal during recovery from a major disaster. A company can redefine the workload model for WLP to reflect only those jobs that must run in spite of a disaster. Appropriate user management personnel can review and then approve copies of the projected workload completion times. This way, WLP can help define a suitable configuration for processing the required work. Realistic planning information greatly assists decisions on the suitability of alternate CPU/peripheral configurations.

## Data Flow

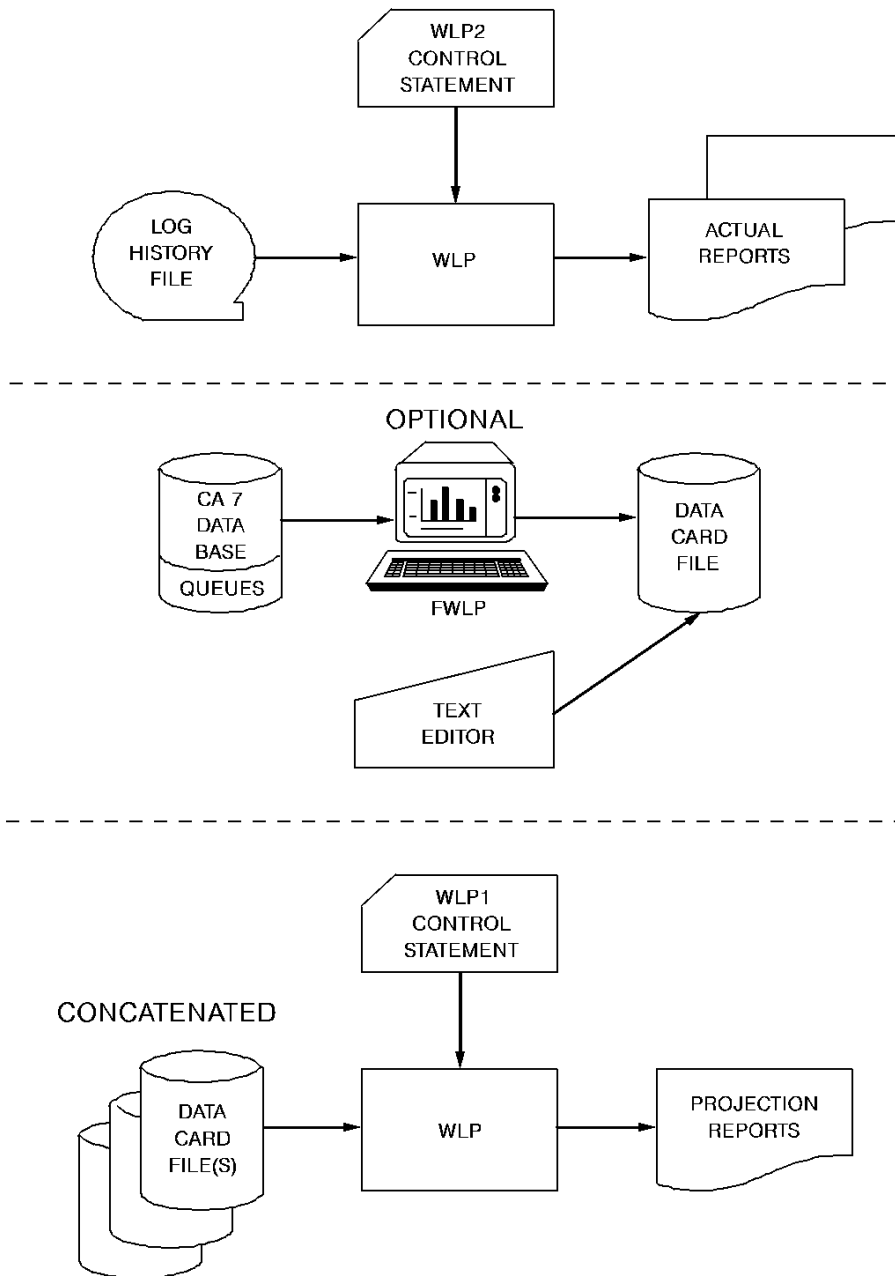
WLP executes as a single job step. WLP simulates the processing of jobs based on a defined workload model and as many resource models as are necessary to correspond to the anticipated changes in environment.

The CA 7 text editor, or any comparable text editing facility, can tailor the workload model to specific needs. Jobs can be added, changed, or deleted as necessary to complete the accurate definition of the workload model before running the actual planning job.

Resource models for WLP can be based on the workload balancing processing objectives used in production. Those processing objectives used in actual workload processing can be used, without change, in WLP. New processing objectives, when necessary, can also be defined for use in WLP to accomplish the wanted results. Predefined processing objectives used in the current production control function can be selected when the workload model parameters are specified. If these planning objectives have been previously defined and scheduled with the UCC7Rxxx convention, they can be selected and automatically included at the appropriate position in the file containing the workload model produced by FWLP. Changes to processing objectives, including additions, or deletions can alternatively be made to the data file. This is done in a manner similar to the technique for modifying job detail in the workload model, because both are physically intermixed in the data file that becomes input to WLP. Global overrides and additional parameters are also available on the WLP1 control statement.

Once the data representing the wanted workload and resources is prepared, the workload planning job is run. Different reports are produced depending on whether log history or data statement information is used. Reports with the title suffix PROJECTION are produced whenever data statement information and the WLP1 control statement are used for the workload model. Reports with the title suffix ACTUAL are produced whenever history information and the WLP2 control statement are used for the model. The workload planning summary display is also provided for workload models selected from the database with the FWLP command.

The following figure illustrates the flow of the workload planning facility.



## Limitations on Use

The workload planning facility is flexible, but using it to compare dissimilar systems results in data that appears to be good, but probably is not. Such data must not be used for the basis of decisions.

One way to avoid this situation is to do separate extracts from the CA WA CA 7 Edition database, creating a series of data files. If all the information is needed in a particular projection run, concatenate the files for more universal results. Even here remember that the values of the WLP1 parameters are applied globally in the concatenated data.

For example, if a site has two mainframes, and jobs can run on either CPU. To do a projection run involving jobs that run on both CPUs, the source information for the projection run is extracted from the CA WA CA 7 Edition database. The values for the parameters to use in the projection run are applied globally. But the system does not allow a separate set of values applied to parameters for one CPU and another set applied to the other CPU in the same run.

The two overall best uses of projection are studying the effects of proposed system upgrades, perhaps the reintegration of systems as a result of the upgrades, and troubleshooting problem devices and applications.

## Workload Planning Reports

The CA WA CA 7 Edition workload planning (WLP) facility generates reports that provide resource usage and job run information based on simulated runs. The reports assist data center managers in identifying particular problem areas in hardware configuration and job scheduling (those areas that affect job flow).

The WLP reports are as follows:

- Card Input Edit - WLP01
- Hourly INIT Usage Projection - WLP02
- Hourly TP1 Usage Projection - WLP03
- Hourly TP2 Usage Projection - WLP04
- Hourly CPU Usage Projection - WLP05
- Resource Summary Projection - WLP06
- Job Summary - Projection Report WLP07

- Job Summary - Actual Report WLP07
- Detailed Resource Utilization - Projection - WLP07
- Detailed Resource Utilization - Actual - WLP07

A description and sample of each report follows. The remaining topics provide the procedures to generate specific reports.

## Card Input Edit Report WLP01

The Card Input Edit report is an audit trail/error report of either the WLP1 or WLP2 control statement used in either a projection or an actual run. The report shows the values of either WLP1 or WLP2, in effect, during the run.

This report is output with reports WLP02 through WLP07 so that you can see the values used in the run, rather than having to refer to the control records for that run.

Following is an example of the WLP1 control statement used in a projection run, including the projection timespan for that run. The values shown in the report correspond to the values entered in the control record for the batch run for the projection.

```

WLP01 - 01/12/yy.012 09:45:46                                PAGE 0001
*** CA - 7  WORKLOAD PLANNING ***
    CONTROL CARDS

    WLP1 TP1=+00
    CONTROL VALUES IN EFFECT
    WLP1 ETF=+000
        TP1=+00
        TP2=+00
        INIT=+00
        ALG=WLB
        SCNSPAN=04
        SCNINCR=00
        RERUN=NO
        LPP=60
        CPUS=01
        TITLE=CA-7

WLP01 - 01/12/yy.012 09:45:46                                PAGE 0001
    WLP ERROR MESSAGE

    PROJECTION TIME SPAN WAS
        FROM=yy.011/0900      (20yy.011/09:00)
        TO=yy.011/2019        (20yy.011/20:19)

```

This report contains the following fields:

**WLP01 - mm/dd/yy.ddd hh:mm:ss**

Specifies the date and time-of-day of the projection run that created this report.

**CA-7 WORKLOAD PLANNING CONTROL CARDS**

Identifies the report.

**WLP1**

Shows the control statement identifier.

**CONTROL VALUES IN EFFECT**

Shows the values that were in effect for the WLP1 control statement for this particular projection run.

**WLP ERROR MESSAGE**

Shows the error messages and any items that were specified incorrectly.

**PROJECTION TIME SPAN WAS**

Identifies the timespan that is used in this projection.

Following is an example of a WLP01 report that comes from an actuals run. The actuals run uses the WLP2 control statement.

```
WLP01 - 01/12/yy.012 09:45:46                                     PAGE 0001
*** CA - 7 WORKLOAD PLANNING ***
CONTROL CARDS

WLP2 FROM=yy013/0000,SPAN=24
CONTROL VALUES IN EFFECT
WLP2 CPUID=ALL
LPP=60
MAXRUN=12
TITLE=CA-7
SPECIFIED TIME SPAN WAS
FROM=08013/0000 (20yy.013/00:00)
TO=08013/2400 (20yy.013/24:00)
LOW DATE=08013/0921 (20yy.013/09:21)
HIGH DATE=08013/0533 (20yy.013/05:33)
```

This report contains the following fields:

**WLP01 - mm/dd/yy.ddd hh:mm:ss**

Specifies the date and time-of-day of the actuals run when this report was created.

**CA-7 WORKLOAD PLANNING CONTROL CARDS**

Identifies the report.

**WLP2**

Shows the values that were entered on the WLP2 control statement in the actuals run. Defaults go into effect when parameters are not specified.



**5...50**

Indicates a bar graph plot of the largest number of initiator hours in use per hour. The graph is scaled from 0 to 50 or 100, depending on the availability values for the simulation.

**CAPACITY**

Indicates the number of initiator hours available per hour for a single WLP simulation. Value can be fractional to reflect changing resource availability within the hour timespan.

**USED**

Indicates the actual number of initiator hours that are used per hour for a single WLP simulation.

**PERCENTAGE**

Indicates an hour-by-hour percentage of initiator usage that is based on the ratio:  
 $USED/CAPACITY$

**TOTALS**

Indicates summary figures for CAPACITY, USED, and PERCENTAGE. Totals usually correspond with figures on the Resource Summary Projection report, although minor differences due to rounding are possible.

**AVERAGES**

Indicates mean averages for the CAPACITY and USED columns.

**Note:** Totals and averages reflect the values that are accumulated for the reporting period within the day that DATE specifies.

## Hourly TP1 Usage Projection Report WLP03

The Hourly TP1 Usage Projection report provides a breakdown of TYPE1 tape drive usage per hour for a single WLP simulation. Hour-by-hour figures assist the user in finding resource and job schedule slack time. Furthermore, they can show the projected effects of extra hardware, hardware failure, or new applications in a data center under CA WA CA 7 Edition.

The WLP data statement file, extracted from the database by the FWLP command or created manually, is the input for this report. The WLP1 control statement must also appear in the WLPCC control record file to generate the report.

```

WLP03 - 01/12/yy.012 10:28:03                                PAGE 0001
** CA - 7                                WORKLOAD PLANNING **
** HOURLY T P 1  USAGE PROJECTION **

DATE yy011
HIGH WATER MARK      IN UNITS
TIME  ...5...0...5...0...5...0...5...0...5...0...5...0  CAPACITY  USED  PERCENTAGE  TIME
900-1000                                14.0    0.0        0.0  900-1000
1000-1100                                14.0    0.0        0.0  1000-1100
1100-1200                                14.0    0.0        0.0  1100-1200
1200-1300                                14.0    0.0        0.0  1200-1300
1300-1400 *****                          14.0    3.6        26.0  1300-1400
1400-1500 **                             14.0    1.1         7.8  1400-1500
1500-1600 **                             14.0    1.6        11.6  1500-1600
1600-1700 **                             14.0    2.0        14.2  1600-1700
1700-1800 **                             14.0    2.0        14.2  1700-1800
1800-1900 **                             14.0    1.8        13.0  1800-1900
1900-2000 **                             14.0    1.4         9.8  1900-2000
2000-2019 *                               4.4     0.2         5.6  2000-2019
TOTALS                                  158.4   13.7        8.6
AVERAGES                                 13.2    1.1
    
```

This report contains the following fields:

**DATE**

Indicates the date for which the WLP simulation applies.

**TIME**

Divides the simulation timespan into the consecutive hour increments. For the simulations whose span exceeds eight hours, multiple groups of eight hour segments are produced.

**5...50**

Indicates a bar graph plot of the largest number of TYPE1 tape drives in use per hour. The graph is scaled from 0 to 50 or 100, depending on the resource availability values for the simulation.

**CAPACITY**

Indicates the number of TYPE1 tape drive hours available per hour for a single WLP simulation. Value can be fractional to reflect changing resource availability within the hour timespan.

**USED**

Indicates the actual number of TYPE1 tape drive hours that are used per hour for a single WLP simulation.

**PERCENTAGE**

Indicates an hour-by-hour percentage of TYPE1 tape drive usage that is based on the ratio:

USED/CAPACITY

**TOTALS**

Indicates summary figures for CAPACITY, USED, and PERCENTAGE. Totals usually correspond with figures on the Resource Summary Projection report, although minor differences due to rounding are possible.

**AVERAGES**

Indicates mean averages for the CAPACITY and USED columns.

**Note:** Totals and averages reflect the values that are accumulated for the reporting period within the day that DATE specifies.

## Hourly TP2 Usage Projection Report WLP04

The Hourly TP2 Usage Projection report provides a breakdown of TYPE2 tape drive usage per hour for a single WLP simulation. Hour-by-hour figures assist the user in finding resource and job schedule slack time. Furthermore, they can show the projected effects of extra hardware, hardware failure, or new applications in a data center under CA WA CA 7 Edition.

The WLP data statement file, extracted from the database by the FWLP command or created manually, is the input for this report. The WLP1 control statement must also appear in the WLPCC control record file to generate the report.

WLP04 - 01/12/yy.012 10:28:03										PAGE 0001			
** CA - 7 WORKLOAD PLANNING **													
** HOURLY TP2 USAGE PROJECTION **													
DATE yy011	HIGH WATER MARK					IN UNITS							
TIME	1	1	2	2	3	3	4	4	5	CAPACITY	USED	PERCENTAGE	TIME
900-1000	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	900-1000
1000-1100	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1000-1100
1100-1200	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1100-1200
1200-1300	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1200-1300
1300-1400	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1300-1400
1400-1500	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1400-1500
1500-1600	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1500-1600
1600-1700	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1600-1700
1700-1800	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1700-1800
1800-1900	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1800-1900
1900-2000	...	5	...	0	...	5	...	0	...	12.0	0.0	0.0	1900-2000
2000-2019	...	5	...	0	...	5	...	0	...	3.8	0.0	0.0	2000-2019
										TOTALS	135.8	0.0	0.0
										AVERAGES	11.3	0.0	

This report contains the following fields:

**DATE**

Indicates the date for which the WLP simulation applies.

**TIME**

Divides the simulation timespan into the consecutive hour increments. For the simulations whose span exceeds eight hours, multiple groups of eight hour segments are produced.

**5...50**

Indicates a bar graph plot of the largest number of TYPE2 tape drives in use per hour. The graph is scaled from 0 to 50 or 100, depending on the resource availability values for the simulation.

**CAPACITY**

Indicates the number of TYPE2 tape drive hours available per hour for a single WLP simulation. Value can be fractional to reflect changing resource availability within the hour timespan.

**USED**

Indicates the actual number of TYPE2 tape drive hours that are used per hour for a single WLP simulation.

**PERCENTAGE**

Indicates an hour-by-hour percentage of TYPE2 tape drive usage that is based on the ratio:

$USED/CAPACITY$

**TOTALS**

Indicates summary figures for CAPACITY, USED, and PERCENTAGE. Totals usually correspond with figures on the Resource Summary Projection report, although minor differences due to rounding are possible.

**AVERAGES**

Indicates mean averages for the CAPACITY and USED columns.

**Note:** Totals and averages reflect the values that are accumulated for the reporting period within the day that DATE specifies.

## Hourly CPU Usage Projection Report WLP05

The Hourly CPU Usage Projection report provides a breakdown of CPU usage per hour for a single WLP simulation. Hour-by-hour figures assist the user in finding resource and job schedule slack time. Furthermore, they can show the projected effects of extra hardware, hardware failure, or new applications in a data center under CA WA CA 7 Edition.

The WLP data statement file, extracted from the database by the FWLP command or created manually, is the input for this report. The WLP1 control statement must also appear in the WLPCC control record file to generate the report.

```

WLP05 - 01/12/yy.012 10:28:03                                PAGE 0001
** CA - 7                                WORKLOAD PLANNING **
** HOURLY CPU USAGE PROJECTION **

DATE yy011
HIGH WATER MARK      IN PERCENT      1
 1  2  3  4  5  6  7  8  9  0
TIME  ....0...0...0...0...0...0...0...0...0...0  CAPACITY  USED  PERCENTAGE  TIME
900-1000                                60.0  0.0      0.0  900-1000
1000-1100                                60.0  0.0      0.0 1000-1100
1100-1200                                60.0  0.0      0.0 1100-1200
1200-1300                                60.0  0.0      0.0 1200-1300
1300-1400 *****                          60.0  4.2      6.9 1300-1400
1400-1500 **                             60.0  2.3      3.8 1400-1500
1500-1600 ***                             60.0  2.9      4.7 1500-1600
1600-1700 ***                             60.0  3.3      5.5 1600-1700
1700-1800 ***                             60.0  2.1      3.5 1700-1800
1800-1900 *                               60.0  0.6      1.0 1800-1900
1900-2000 *                               60.0  1.3      2.1 1900-2000
2000-2019 *                               19.0  0.3      1.7 2000-2019
                                TOTALS  679.0 17.0      2.5
                                AVERAGES 56.5  1.4
    
```

This report contains the following fields:

**DATE**

Indicates the date for which the WLP simulation applies.

**TIME**

Divides the simulation timespan into the consecutive hour increments. For those simulations whose span exceeds eight hours, multiple groups of eight hour segments are produced.

**10...100**

Indicates a bar graph plot of the highest percentage of CPU time in use per hour that is scaled from 0 to 100.

**CAPACITY**

Indicates the number of CPU minutes available per hour for a single WLP simulation. This value corresponds directly to the value given for CPUS on the WLP1 control statement that is multiplied by 60 for each full hour reported.

**USED**

Indicates the actual number of CPU minutes used per hour for a single WLP simulation.

**PERCENTAGE**

Indicates an hour-by-hour percentage of CPU usage that is based on the ratio:  
USED/CAPACITY

**TOTALS**

Indicates summary figures for CAPACITY, USED, and PERCENTAGE. Totals usually correspond with figures on the Resource Summary Projection report, although minor differences due to rounding are possible.

**AVERAGES**

Indicates mean averages for the CAPACITY and USED columns.

**Note:** Totals and averages reflect the values that are accumulated for the reporting period within the day that DATE specifies.

## Resource Summary Projection Report WLP06

The Resource Summary Projection report provides resource usage summary information that is based on the total capacity for an entire WLP simulation. Figures for TYPE1 and TYPE2 tape drives, initiators, and CPU usage compare the projected resource capacity with the actual usage. The resulting percentages help to identify a resource shortage or surplus. A message is generated when the usage reaches a critical level.

The WLP data statement file, extracted from the database by the FWLP command or created manually, is the input for this report. The WLP1 control statement must also appear in the WLPCC control record file to generate the report.

WLP06 - 01/12/yy.012 10:28:03		** CA - 7 WORKLOAD PLANNING **			PAGE 0001
		** RESOURCE SUMMARY PROJECTION **			
		CAPACITY	USED	PERCENTAGE	
INITIATOR HOURS		169.7	10.5	6.2	
TP1 HOURS		158.4	13.7	8.6	
TP2 HOURS		135.8	0.0	0.0	
CPU MINUTES		679.0	17.0	2.5	

This report contains the following fields:

**CAPACITY**

Indicates the number of resource hours available for the initiator, tape drive, and CPU usage.

**USED**

Indicates the number of resource hours that are used in a single WLP simulation.

**PERCENTAGE**

Indicates a percentage of resource usage that is based on the ratio:

USED/CAPACITY

A low value identifies a possible resource surplus. A value greater than 100 percent identifies a possible deficiency.

\*\*\*CRITICAL\*\*\* appears when the resource PERCENTAGE exceeds 100 percent.

## Job Summary - Projection Report WLP07

The Job Summary - Projection report provides job status summary information based on deviations from due-out times for a specific WLP simulation timespan. Figures include the number of jobs to run, number of jobs early, and number of jobs late. The figures help identify excessive run or rerun times, inappropriate job schedules, insufficient resource allocation, and so forth.

The WLP data statement file, extracted from the database by the FWLP command or created manually, is the input for this report. The WLP1 control statement must also appear in the WLPCC control record file to generate the report.

WLP07 - 01/12/yy.012 10:28:03				PAGE 0001
	**	CA - 7 WORKLOAD PLANNING **		
	**	JOB SUMMARY -- PROJECTION **		
		-- TIME PERIOD : FROM yy.011/09:00 TO yy.011/20:19		
		COUNT	AVERAGE DEVIATION	MAXIMUM DEVIATION
	JOB SCHEDULED	24	+ 02:05	
	JOB EARLY	14	+ 04:08	+ 04:30
	JOB LATE	10	- 00:49	- 01:21

This report contains the following fields:

**TIME PERIOD FROM**

Indicates the beginning date and time for this simulation.

**TIME PERIOD TO**

Indicates the ending date and time for this simulation.

**COUNT**

Indicates total number of jobs for this simulation as follows:

- JOBS SCHEDULED - Total number of jobs that were completed during this simulation.
- JOBS EARLY - Total number of jobs that were completed early during this simulation.
- JOBS LATE - Total number of jobs that were completed late during this simulation.

**AVERAGE DEVIATION**

Indicates average job completion time deviations for this simulation as follows:

- JOBS SCHEDULED - Total, in hours and minutes, for all jobs, calculated as follows:

$$\frac{(\text{Due-out times} - \text{Completion times})}{\text{Total number of jobs}}$$

- JOBS EARLY - Total, in hours and minutes, for all early jobs, calculated as follows:

$$\frac{(\text{Due-out times} - \text{Completion times})}{\text{Total number of early jobs}}$$

- JOBS LATE - Total, in hours and minutes, for all late jobs, calculated as follows:

$$\frac{(\text{Due-out times} - \text{Completion times})}{\text{Total number of late jobs}}$$

**MAXIMUM DEVIATION**

Indicates the highest completion time deviation for this simulation, as follows:

- JOBS EARLY - Maximum amount of time early (+), in hours and minutes, for the earliest job.
- JOBS LATE - Maximum amount of time late (-), in hours and minutes, for the latest job.

## Job Summary - Actual Report WLP07

The Job Summary - Actual report provides actual job status summary information based on deviations from due-out times. The information is taken directly from the CA WA CA 7 Edition log history file for a specified timespan. The WLP2 control statement must also appear in the WLPCC control record file to generate this report.

WLP07 - 01/12/yy.012 10:28:03		PAGE 0001	
** CA - 7 WORKLOAD PLANNING **			
** JOB SUMMARY -- ACTUAL **			
-- TIME PERIOD : FROM yy.011/09:00 TO yy.011/20:19			
	COUNT	AVERAGE DEVIATION	MAXIMUM DEVIATION
JOBS SCHEDULED	82	+ 02:58	
JOBS EARLY	50	+ 01:19	+ 06:22
JOBS LATE	32	- 09:40	- 19:43

This report contains the following fields:

### TIME PERIOD FROM

Indicates the beginning date and time for this actuals run.

### TIME PERIOD TO

Indicates the ending date and time for this actuals run.

### COUNT

Indicates total number of jobs for this actuals run as follows:

- JOBS SCHEDULED - Total number of all jobs (scheduled, demanded, rerun) that completed during this run.
- JOBS EARLY - Total number of jobs that were completed early during this run.
- JOBS LATE - Total number of jobs that were completed late during this run.

### AVERAGE DEVIATION

Indicates average job completion time deviations for this actuals run as follows:

- JOBS SCHEDULED - Total, in hours and minutes, for all jobs, calculated as follows:  

$$\frac{(\text{Due-out times} - \text{Completion times})}{\text{Total number of jobs}}$$
- JOBS EARLY - Total, in hours and minutes, for all early jobs, calculated as follows:  

$$\frac{(\text{Due-out times} - \text{Completion times})}{\text{Total number of early jobs}}$$
- JOBS LATE - Total, in hours and minutes, for all late jobs, calculated as follows.  

$$\frac{(\text{Due-out times} - \text{Completion times})}{\text{Total number of late jobs}}$$

**MAXIMUM DEVIATION**

Indicates the highest completion time deviation for this actuals run, as follows:

- JOBS EARLY - Maximum amount of time early (+), in hours and minutes, for the earliest job.
- JOBS LATE - Maximum amount of time late (-), in hours and minutes, for the latest job.

**Detailed Resource Utilization - Projection Report WLP07**

The Detailed Resource Utilization - Projection report provides job flow information from a simulation run. Statistics on the report for all jobs that, based on this simulation, would have run during a specific time period include the following:

- Job due-out times
- Submit times
- Elapsed times

A plot graphically shows when each job ran within a specified span of eight hours. The report is useful in studying the flow of jobs and the job mix, or how jobs interact with each other. A status field indicates when jobs are late, suggesting that a job schedule problem exists.

The WLP data statement file, extracted from the database by the FWLP command or created manually, is the input for this report. The WLP1 control statement must also appear in the WLPCC control record file to generate the report.

```

WLP07 - 01/12/yy.012 10:28:03                                     PAGE 0001
**          **          CA - 7  WORKLOAD PLANNING  **
** DETAILED RESOURCE UTILIZATION -- PROJECTION **
-- TIME PERIOD : FROM yy.011/09:00 TO yy.011/17:00
JOB NAME  SCHDID  DOTM  START TM  ELAP  CPU  T1 T2 C PRT  RR RI  0  1  1  1  1  1  1  1  1  1  STATUS
          DDD/HHMM DDD/HHMM HHMM  MMMSS
          9.....0.....1.....2.....3.....4.....5.....6.....7  CC  HHMM
ACLWAIT1  030  011/1715  011/1300  0004  00004  0  0 A 100  0          -          +0411
JFM001    030  011/1715  011/1300  0004  00001  0  0 U 100  1          -          +0411
JFM770    030  011/1735  011/1300  0005  00007  0  0 U 100  2          -          +0430
JFM014    030  011/1738  011/1304  0013  00009  1  0 U 100  1          -          +0421
AFM135    030  011/1742  011/1304  0017  00024  2  0 B 100  3          -          +0421
JFM013    030  011/1744  011/1304  0019  00016  1  0 U 100  2          -          +0421
JFM012    030  011/1757  011/1304  0032  00019  1  0 U 100  2          -          +0421
JFM011    030  011/1820  011/1317  0035  00036  1  0 U 100  2          -          +0428
JFM010    030  011/1834  011/1317  0049  00035  1  0 U 100  3          -          +0428
JFM112    030  011/1942  011/1317  0157  00423  1  0 U 100  4          -          +0428
JFM062    030  011/1811  011/1352  0004  00005  0  0 I 100  0          -          +0415
JFM002    030  011/1825  011/1356  0004  00002  0  0 U 100  1          -          +0425
JFM040    030  011/1848  011/1514  0004  00002  0  0 U 100  0          -          +0330
BFM135    030  011/1940  011/1518  0215  00727  2  0 B 100  13          -          +0207
          INITIATOR USAGE (HRS)      0.0  0.0  0.0  0.0  3.7  1.1  1.0  1.0
          TP1 USAGE (HRS)           0.0  0.0  0.0  0.0  3.7  1.1  1.6  2.0
          TP2 USAGE (HRS)           0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
          CPU TIME (MINS)            0.0  0.0  0.0  0.0  4.2  2.3  2.9  3.3
    
```

This report contains the following fields:

**TIME PERIOD FROM**

Indicates the beginning date and time of the simulation.

**TIME PERIOD TO**

Indicates the ending date and time of the simulation up to eight hours past the FROM period. Simulations longer than this span are divided into eight hour time spans for reporting purposes. All jobs that ran during an eight hour span are listed before the report continues with the next eight-hour span.

**JOB NAME**

Indicates the job name.

**SCHDID**

Indicates the schedule ID of the job.

**DOTM**

Indicates the due-out day and time of the job.

**START TM**

Indicates the start day and time of the job.

**ELAP**

For executable jobs, indicates the elapsed time of the job. The nonexecutable jobs show \*\*\*NON-EXEC.

**CPU**

Indicates the CPU time of the job.

**T1**

Indicates the number of TYPE1 tape drives required by the job.

**T2**

Indicates the number of TYPE2 tape drives required by the job.

**C**

Indicates the WLB class of the job.

**PRT**

Indicates the workload balancing (WLB) priority of the job.

**RR**

Indicates the rerun rate that is expressed as a percentage of the job.

**RI**

Indicates a rerun job. A value of R indicates a job's elapsed time and CPU time are extended to represent rerun spoilage as indicated by the RERUN, RRTHRS, and RRSPoil values on the WLP1 control statement. (Rerun time is included in elapsed time only for the Projection report.)

**09...17**

Indicates an eight hour span against which elapsed time is plotted. The first eight-hour span that is reported begins on the one hour boundary before the simulation FROM time appearing on the earliest RES statement time. An individual job's span begins at its start time. A value of C appears in the first column of this field when the elapsed timespan of the job has been continued from a previous time range.

**CC**

Indicates the completion code of the job (actuals only).

**STATUS**

Indicates the status of the job that is based on due-out time. End time is either earlier (+) or later (-) than due-out time. Asterisks (\*\*) appear when a job is late.

**INITIATOR USAGE (HRS)**

Indicates total initiator hours that are used per hour for each of the eight hours for this simulation.

**TP1 USAGE (HRS)**

Indicates total TYPE1 tape drive hours that are used per hour for each of the eight hours for this simulation.

**TP2 USAGE (HRS)**

Indicates total TYPE2 tape drive hours that are used per hour for each of the eight hours for this simulation.

**CPU TIME (MINS)**

Indicates the total CPU minutes used per hour for each of the eight hours for this simulation.



**DOTM**

Indicates the due-out day and time of the job.

**START TM**

Indicates the start day and time of the job.

**ELAP**

Indicates the elapsed time of the job.

**CPU**

Indicates the CPU time of the job.

**T1**

Indicates the number of TYPE1 tape drives required by the job.

**T2**

Indicates the number of TYPE2 tape drives required by the job.

**C**

Indicates the WLB class of the job.

**PRT**

Indicates the WLB priority of the job.

**RR**

Indicates the number of times the job has been restarted.

**RI**

Indicates a rerun job. A value of R appears when the job is a rerun. (Rerun time is not included in elapsed time for the Actual report. Instead, each rerun is listed individually as a separate job.)

**09...17**

Indicates an eight hour span against which elapsed time is plotted. The first eight-hour span that is reported begins on the one hour boundary before the FROM value appearing on the WLP2 control statement. An individual job's span begins at its start time. A value of C appears in the first column of this field when the job's elapsed timespan has been continued from a previous time range.

**CC**

Indicates the completion code of the job.

#### **STATUS**

Indicates the status of the job is based on due-out time. End time is either earlier (+) or later (-) than due-out time. Asterisks (\*\*) appear when a job is late.

#### **INITIATOR USAGE (HRS)**

Indicates total initiator hours that are used per hour for each of the eight hours for this actual run.

#### **TP1 USAGE (HRS)**

Indicates total TYPE1 tape drive hours that are used per hour for each of the eight hours for this actual run.

#### **TP2 USAGE (HRS)**

Indicates total TYPE2 tape drive hours that are used per hour for each of the eight hours for this actual run.

#### **CPU TIME (MINS)**

Indicates the total CPU minutes that are used per hour for each of the eight hours for this actual run.

## WLP Online Data Generator

The online data generator is the FWLP command that is used to generate data for a projection run automatically. FWLP is used only for projections.

### FWLP Command

The FWLP command selects information from the database and queues to use as input for the WLP simulator and projection reports. This input supplies all critical information about the resource configurations and jobs scheduled for a specified time frame. FWLP creates a file consisting of card-image, fixed-format records. The records facilitate additions, deletions, and updates for possible resource and job specification changes through a standard text editor (CA WA CA 7 Edition, TSO, CA Roscoe, and so forth).

**Note:** For more information about the FWLP command, see the *Command Reference Guide*.

### Data Statement File

The data statement file created by the FWLP transaction consists of 80-character, fixed-format records divided into the following two types:

- RES statements that define the resources available
- JOB statements that define the requirements of the jobs

The file is used as input for a batch WLP run. WLP simulates a run based on information such as when a job enters the queues, its requirements, available resources, and so forth, as specified in the data statement file. You can change the parameters on the RES and JOB statements or add more RES or JOB statements. This flexibility lets you simulate the effects of changing resources, job processing characteristics, or both. If you add more statements, you are not required to add them in sequence. The batch simulation job sorts the statements before processing.

Simulation can optionally be based on workload balancing (WLB) calculations determined by job characteristics and WLB processing objectives definitions. Whether the WLB algorithm is used to calculate job priorities, resource specifications (RES statements) can refer to the WLB processing objectives modules.

## RES Statements

The number of RES statements in the data statement file corresponds directly to the RESP or RESA parameters in the FWLP command. If RESP has been specified, the resource picture job name (UCC7Rxxx) is used permanently throughout a single batch run of WLP. Only one RES statement has been created as a result of FWLP. On the other hand, if RESA has been specified, the indicated job name (UCC7Rxxx) is used as a starting schedule point of resource definitions. All ascending occurrences of UCC7Rxxx jobs are picked up by schedule times as encountered. In this case, one RES statement has been created for each scheduled resource picture definition change. The modules that the RES parameter on the RES statement reference must be in a load library in the WLP batch JCL.

This statement has the following format:

```
Ryyddd T=hhmm[ ,RES=UCC7Rxxx]
      [, TP1={+00|+nn|-nn|nn}]
      [, TP2={+00|+nn|-nn|nn}]
      [, INIT={+00|+nn|-nn|nn}]
```

### **Ryyddd**

Defines a required, positional field. Must begin in column 1.

### **R**

Defines this statement as a RES statement.

### **yyddd**

Defines the Julian date on which this resource picture is to take effect. Value is taken from the scheduled due-out time of the WLB resource picture schedule in the database when the FWLP command generated the RES statement.

### **T=hhmm**

Defines a required, positional field. Must begin in column 8. Specifies the time-of-day at which this resource picture is to apply. Value is the due-out time of the WLB resource picture schedule on the database when the FWLP command generated the RES statement.

**RES**

(Optional) Defines the module name of the WLB resource picture. If the RES keyword is omitted, changes indicated by other keywords are applied to the resource definition in effect for the time indicated.

**UCC7Rxxx**

Identifies a CA WA CA 7 Edition WLB processing objective definition module existing on the load library. If the RES parameter is not specified, adjustments for TP1, TP2, and INIT are applied to the current WLB definition. When processing begins, the definition contains a value of zero for all parameters.

If the RES parameter is not specified on the earliest RES statement, specify the INIT parameter. Otherwise, jobs run the risk of not fitting the resources available from the time of this RES statement until the time the next RES statement becomes effective. The earliest RES statement date/time must always include this parameter with the appropriate module name.

**TP1**

(Optional) Overrides the number of tape drives specified in the WLB TAPE1 macro MXTAL value. The FWLP command does not generate this parameter.

**+00**

Indicates no change to the current value. This value is the default.

**+nn**

Indicates the amount by which TAPE1 is adjusted. For example, TAPE1 macro MXTAL=4; RES statement TP1=+3; the result is a value of 7 for TAPE1. The adjustment cannot exceed 99. For example, TAPE1 macro MXTAL=90; RES statement TP1=20; the result is a value of 99 for TAPE1.

**-nn**

Indicates the amount by which TAPE1 is adjusted. For example, TAPE1 macro MXTAL=4; RES statement TP1=-3; the result is a value of 1 for TAPE1. The adjustment cannot be less than 0. For example, TAPE1 macro MXTAL=4; RES statement TP1=-5; the result is a value of 0 for TAPE1.

**nn**

Overrides and replaces the value of TAPE1. For example, TAPE1 macro MXTAL=4; RES statement TP1=3; the TAPE1 resulting value is 3.

**TP2**

(Optional) Overrides the number of tape drives specified in the WLB TAPE2 macro MXTAL value. The FWLP command does not generate this parameter.

**+00**

Indicates no change to the current value. This value is the default.

**+nn**

Indicates the amount by which TAPE2 is adjusted. For example, TAPE2 macro MXTAL=4; RES statement TP2=+3; the result is a value of 7 for TAPE2. The adjustment cannot exceed 99. For example, TAPE2 macro MXTAL=90; RES statement TP2=20; the result is a value of 99 for tape 2.

**-nn**

Indicates the amount by which TAPE2 is adjusted. For example, TAPE2 macro MXTAL=4; RES statement TP2=-3; the result is a value of 1 for TAPE2. The adjustment cannot be less than 0. For example, TAPE2 macro MXTAL=4; RES statement TP2=-5; the result is a value of 0 for TAPE2.

**nn**

Overrides and replaces the value of TAPE2. For example, TAPE2 macro MXTAL=4; RES statement TP2=3; the TAPE2 resulting value is 3.

**INIT**

(Optional) Adjusts the number of initiators in the WLB INIT macro MXTAL value. If the RES parameter is omitted, specify the INIT parameter; otherwise, the INIT parameter is optional. The FWLP command does not generate this parameter.

**+00**

Indicates no change to the current value. This value is the default.

**+nn**

Indicates the amount by which the resource picture is adjusted. For example, INIT macro MXTAL=6; RES statement INIT=+2; the result is a value of 8 for INIT. The adjustment cannot exceed 99, for example, INIT macro MXTAL=90; RES statement INIT=+20; the result is a value of 99 for INIT.

**-nn**

Indicates the amount by which the resource picture is adjusted. For example, INIT macro MXTAL=6; RES statement INIT=-2; the result is a value of 4 for INIT. The adjustment cannot be less than 0. For example, INIT macro MXTAL=6; RES statement INIT=-7; the result is a value of 0 for INIT.

**nn**

Overrides and replaces the value of WLB INIT. For example, WLB INIT macro MXTAL=6; RES statement INIT=2; the resulting INIT value is 2.

### Usage Notes

At least one RES statement is required for any WLP1 (projection) run of the batch WLP program. The date and time of the earliest RES statement indicates the beginning time of the simulation process. The mix of jobs and resources specified in the RES and JOB statements determines the span of time covered by the projection reports. The reports begin with the earliest RES statement time. The reporting continues until either all jobs are expected to complete, or until the remainder of the jobs not completed cannot fit into the resources specified by the last RES statement.

## JOB Statements

JOB statements contain data about individual jobs. The data includes required resources, job dependencies, job triggers represented by job dependencies and due-out time, job class, and so forth. WLP uses this data to determine when a job can be run. One JOB statement exists for each job scheduled during the simulation, including reruns and demands.

The user can update, add, or delete JOB statements generated by the online FWLP.

This statement has the following format:

```
Jyyddd[*] jobname [, {000|schid}]  
                , T=(hhmm[ , hhmm, hhmm])  
                [, TP={0_0|nn, nn}]  
                [, C={A|x}]  
                [, P={100|nnn}]  
                [, CPU={0|mmss}]  
                [, RR={0|nnn}]  
                [, DEP=jobname]  
                [, NEG=jobname]
```

### Jyyddd[\*]

Is a required, positional field. Must begin in column 1.

**J**

Indicates this statement is a JOB statement.

### yyddd

Indicates the Julian date for the due-out time of this job, taken from the schedule of the job.

**\***

Indicates that the job is executing on the CPU at the time the simulation is to begin. The third subparameter of T on the statement is the job's actual start time. If omitted, the third subparameter represents the job's submit time. If used, \* must appear in column 7. This is an option generated by FWLP.

***jobname***

Specifies the name of this job in up to eight characters. Corresponds to the name on the CA WA CA 7 Edition database and must begin in column 9. This positional parameter is required.

***schid***

Positional parameter indicating the job's schedule ID. (For information only.) When not used, a comma is required to denote omission. For example:

*Jyyddd jobname,,T=...*

If schedule ID is omitted, 000 is the default value.

***T=(hhmm[,hhmm,hhmm])***

Indicates time factors. T is required and can be user-generated if wanted. The three subparameters correspond to due-out time, elapsed time and submit or start time, as follows:

- First subparameter: Due-out time for this job. The value is the DOTM value in the job's schedule definition as defined in the CA WA CA 7 Edition database. It is required.
- Second subparameter: Elapsed time for this job. If generated by the online FWLP command, this value is the weighted average elapsed run (clock) time or schedule lead time carried in the job's definition in the CA WA CA 7 Edition database. The parameter is optional. But if omitted or if 0 is specified, it indicates that the job is nonexecutable. The default is 0. If omitted and the third time subparameter is specified, the omission must be indicated by a comma. For example, *T=(hhmm,,hhmm)*.
- Third subparameter: If an asterisk appears in column 7 of this JOB statement, this value is the actual start time for the job that was executing at the time the command was issued. Otherwise, it is the job's submit time, the time before which the job cannot be submitted. It is optional if no asterisk appears in column 7.

***TP***

Specifies the number of tape drives needed for this job. TP is optional and can be user generated if wanted. The two subparameters correspond with the TAPE1 and TAPE2 values contained in the CA WA CA 7 Edition database as follows:

- First subparameter (*nn*): Number of tape drives of TYPE1. The default is 0.
- Second subparameter (*nn*): Number of tape drives of TYPE2. The default is 0.

Any manual overrides made on the DB.1 panel for TYPE1 and TYPE2 tape drives are used to generate these values from the online FWLP command. Otherwise, the CA WA CA 7 Edition calculated tape drive requirements are generated.

The parameters are positional. For example, if the job requires only one TYPE1 tape drive, one of the following would be specified:

TP=(1,0)

TP=(1)

TP=1

If the job requires only two TYPE2 tape drives, specify one of the following:

TP=(0,2)

TP=(,2)

### **C**

(Optional) Indicates the workload balancing (WLB) class of this job as specified on the database.

#### **A**

Indicates the class to which the job defaults when the parameter is not specified.

#### **x**

Defines the class of this job on the database.

### **P**

(Optional) Indicates the workload balancing (WLB) priority of this job as specified on the DB.1 or DB.10 panel when online FWLP generated this JOB statement.

#### **100**

Indicates the default WLB priority value of this job when the user does not specify the P parameter.

#### ***nnn***

Defines the WLB priority of this job. If online FWLP generated this JOB statement, the priority indicated here is the same as the priority of this job as shown on the DB.1 or DB.10 panel.

### **CPU**

(Optional) Indicates the job's CPU time.

#### **0**

Indicates the default CPU time when the user does not specify this parameter.

#### ***mmss***

Defines the job's CPU time given in minutes (*mmm*) and seconds (*ss*).

**RR**

(Optional) Indicates the job's rerun rate.

**0**

Indicates there are no reruns. This value is the default.

*nnn*

Defines the rerun rate as a three-digit percentage.

**DEP**

(Optional) Specifies one or more jobs on which this job is dependent or that trigger this job. Value can be either a job requirement connection, corresponding to the DB.3.2 panel, or it can represent a triggered job's dependency on the triggering job. Specify multiple job dependencies as follows:

DEP=(*jobname1,jobname2,...,jobnamen*)

**NEG**

(Optional) Specifies one or more jobs with which this job is mutually exclusive. Value corresponds with the DB.3.2 panel value when a /*jobname* (not this job) appears. Specify multiple job names as follows:

NEG=(*jobname1,jobname2,...,jobnamen*)

**Usage Notes**

Any number of job names can be specified for both DEP and NEG.

If a JOB statement must continue, an asterisk (\*) in column 72 and a comma after the last parameter indicate that the following statement is a continuation. Leading blanks on the following statement are ignored; continued data can start in any column.

## WLP Control Statements

The following WLP control statements are available for the batch run:

- WLP1 (generates Projection reports)
- WLP2 (generates Actual reports)

You can specify either of these statements, but not both, as input either for the WLPCC DD or as EXEC statement PARM information. If PARM is used, WLPCC is ignored because only one control statement is allowed per run of WLP. We recommend that you use the control statement rather than the PARM.

## Format Rules

The following format rules apply to the WLP1 and WLP2 control statements:

- At least one blank is required between operation, operand and comment fields.
- No blank can appear within any field.
- A blank statement is not permitted.
- The operation field (WLP1 or WLP2) must begin in column 1. One or more blanks must follow WLP1 or WLP2.
- A comment statement with an asterisk (\*) in column 1 is allowed.
- No field can exceed column 71.
- An operand field can continue on a subsequent control statement. Code a complete parameter (including comma) before column 72 and include an asterisk (\*) in column 72.
- The continuation statement can start anywhere after column 1.
- Commas must separate all keyword parameters, but keywords can be coded in any order.

## WLP1 Control Statement

The WLP1 control statement causes a workload simulation. The simulation is based on input from the data statement file. The file is created from the online FWLP command and referenced by the UCC7WLP DD statement. The projection reports are the results.

This statement has the following format:

```
WLP1 [ ,ALG={WLB|DOTM|PRTY}]
      [ ,CPUS={1|n}]
      [ ,ETF={+00|+nn|-nn}]
      [ ,INIT={+00|+nn|-nn|nn}]
      [ ,LPP={60|nn}]
      [ ,RERUN={NO|ABS|AVG}]
      [ ,RRSPOIL={30|nn}]
      [ ,RRTHRS={00|nn}]
      [ ,SCNINCR={00|hh}]
      [ ,SCNSPAN={04|hh}]
      [ ,TITLE={CA-7|NAME}]
      [ ,TP1={+00|+nn|-nn|nn}]
      [ ,TP2={+00|+nn|-nn|nn}]
```

### ALG

(Optional) Indicates the algorithm to use for the simulation of job processing activity.

### WLB

Simulates the job processing according to the workload balancing priority calculation technique. This value is the default.

### DOTM

Simulates the job processing, assuming that job submission priority is based solely on the specified due-out time of the job (T on the JOB statement).

### PRTY

Simulates the job processing, assuming that job submission priority is based on the specified priority of a job (P on the JOB statement).

### CPUS

(Optional) Indicates an adjustment in the total number of CPUs to represent. Values can range from 1 to 9.

#### 1

Indicates one CPU. This value is the default.

#### *n*

Specifies the number of CPUs to consider. This value multiplies both the number of initiators and CPU capacity.

**ETF**

(Optional) Indicates a global elapsed time factor, assuming all jobs run *nn* percent slower or faster than their elapsed times indicated by the T parameter on the JOB data statement. The ETF parameter is useful for simulating hardware changes.

**+00**

Indicates that the ETF parameter was not specified, or there is no change to the elapsed time specified by the T parameter on the JOB data statement. This value is the default.

**+nn**

Assumes that all jobs run *nn* percent faster than the T parameter on the JOB data statement specified.

**-nn**

Assumes that all jobs run *nn* percent slower than the T parameter on the JOB data statement specified.

**INIT**

(Optional) Adjusts the value of INIT specified on each of the RES data statements for the entire simulation process. Indicates a global change to the number of initiators available. Values can range from 00 to 99.

**+00**

Indicates the INIT parameter was not specified or no adjustment is required on RES INIT. This value is the default.

**+nn**

Indicates the amount to increase the number of initiators available. For example, RES statement INIT=3; WLP1 statement INIT=+3; the resulting number of initiators available is 6.

**-nn**

Indicates the amount to decrease the number of initiators available. For example, RES statement INIT=3; WLP1 statement INIT=-1; the resulting number of initiators available is 2.

**nn**

Overrides and replaces the value of RES statement INIT. For example, RES statement INIT=3; WLP1 statement INIT=1; the resulting number of initiators available is 1.

**LPP**

(Optional) Indicates the number of lines per page for all reports produced.

**60**

Indicates the default number of lines per page for reports produced.

**nn**

Indicates the number of lines per page for reports produced. Value cannot be less than 40 nor greater than 80.

The next three parameters work together to determine the increase in elapsed time depending on the particular job's rerun rate.

**RERUN**

(Optional) Indicates the method by which rerun conditions are represented in the simulation.

**NO**

Indicates to ignore rerun rates. NO is the default.

**ABS**

Indicates to increase elapsed time by the RRSPOIL (rerun spoilage) percentage for all jobs with rerun rates over the RRTHRSR (rerun threshold) value.

**AVG**

Indicates to increase each job's elapsed time by the RRSPOIL (rerun spoilage) percentage times the job's rerun rate, as follows:

**Elapsed Time = Elapsed Time x (1 + RRSPOIL x Rerun Rate)**

The rerun rate for each job is its historical average.

**RRSPOIL**

(Optional) Indicates the percentage by which to lengthen the elapsed time of each job due to reruns. This parameter is ignored when RERUN=NO.

**30**

Indicates the default percentage by which elapsed time of each job is lengthened.

*nn*

Indicates the percentage by which each elapsed time of each job is lengthened. For example:

RERUN=ABS,RRTHRSH=10,RRSPOIL=25

For any job whose rerun rate is 10 percent or more, the job's elapsed time increases 25 percent.

RERUN=AVG,RRSPOIL=25

If a job's rerun rate is 10 percent, the job's elapsed time increases 2.5 percent.

**RRTHRSH**

(Optional) Indicates an RRSPOIL (rerun spoilage) value to apply to those jobs where the rerun frequency crosses the threshold that this parameter specifies.

RERUN=ABS must also be specified. This parameter is ignored if RERUN=NO or AVG. Otherwise, this parameter is optional.

**00**

Indicates that the RRTHRSH parameter was not specified. This value is the default.

*nn*

Specifies the percentage that the RR value of a job must be equal or must surpass for the rerun spoilage to apply.

**SCNINCR**

(Optional) Indicates the number of hours between the simulated schedule scan "wake-ups." The value corresponds directly to the schedule scan increment value for the online execution of CA WA CA 7 Edition. *hh* can be from 00 to 24. The default is 00. If the value is 00, jobs are brought into the simulated queues continuously. (This keyword is most useful in shops requiring a large scan span and increment for simulation.)

**SCNSPAN**

(Optional) Indicates the number of hours early that any job can be run during projection processing. In general, make this value correspond to the schedule scan span specified for the online execution of CA WA CA 7 Edition. However, it is possible to have a job that is dependent on another job and their due-out times are far apart. In this case, make the SCNSPAN value large enough to encompass both jobs. *hh* can be from 01 to 24. The default is 04.

**TITLE**

(Optional) Indicates whether to use CA-7 or CA Workload Automation SE in the report title.

**CA-7**

Uses CA-7 in the report title. CA-7 is the default.

**NAME**

Uses CA Workload Automation SE in the report title.

**TP1**

(Optional) Adjusts the values of TP1 as specified on each of the RES data statements for the entire simulation process. Indicates a global change to the value of TAPE1 tape drives. Values range from 00 to 99.

**+00**

Indicates that the TP1 parameter was not specified or no adjustment to the TAPE1 counts is required. This value is the default.

**+nn**

Indicates a global increase value to the number of TAPE1 tape drives. For example, if RES statement TP1=1; WLP1 statement TP1=+1; the resulting number of TAPE1 tape drives is 2.

**-nn**

Indicates a global decrease value to the number of TAPE1 tape drives. For example, if RES statement TP1=2; WLP1 statement TP1=-1; the resulting number of TAPE1 tape drives is 1.

**nn**

Overrides and replaces the value of TAPE1. For example, RES statement TP1=2; WLP1 statement TP1=1; the resulting number of TAPE1 tape drives is 1.

**TP2**

(Optional) Adjusts the value of TP2 as specified on each of the RES data statements for the entire simulation process. Indicates a global change to the value of TAPE2 tape drives. Values range from 00 to 99.

**+00**

Indicates that the TP2 parameter was not specified or no adjustment to the TAPE2 counts is required. This is the default.

**+nn**

Indicates a global increase value to the number of TAPE2 tape drives. For example, if RES statement TP2=1; WLP1 statement TP2=+1; the resulting number of TAPE2 tape drives is 2.

**-nn**

Indicates a global decrease value to the number of TAPE2 tape drives. For example, if RES statement TP2=2; WLP1 statement TP2=-1; the resulting number of TAPE2 tape drives is 1.

**nn**

Overrides and replaces the value of TAPE2. For example, RES statement TP2=2; WLP1 statement TP2=1; the resulting number of TAPE2 tape drives is 1.

## WLP2 Control Statement

The WLP2 control statement uses actual log history data to create actual reports.

WLP2 begins in column 1, and one or more blanks follow WLP2.

This statement has the following format:

```
WLP2 FROM=yyddd/hhmm, {TO=yyddd/hhmm|SPAN=hh}  
      [, CPUID={ALL|xxxx}]  
      [, LPP={60|nn}]  
      [, MAXRUN={12|hh}]  
      [, TITLE={CA-Z|NAME}]
```

**FROM=yyddd/hhmm**

Indicates report beginning date and time. This parameter is required.

**TO=yyddd/hhmm**

Indicates report ending date and time. Specify either TO or SPAN.

**SPAN**

Indicates the report time interval in hours to add to the FROM value. Values can range from 01 to 99. Specify either SPAN or TO.

**CPUID**

(Optional) Indicates the SMF ID for the CPU jobs to which the report is restricted. Only those jobs run on the specified CPU are included.

**ALL**

Indicates to generate reports for jobs run on all CPUs. This value is the default.

**xxxx**

Indicates to generate reports for the jobs run on the CPU specified by this SMF ID.

**LPP**

(Optional) Indicates the number of lines per page for all reports produced.

**60**

Indicates the default number of lines per page for reports produced.

***nn***

Indicates the number of lines per page for reports produced. Value cannot be less than 40 nor greater than 80.

**MAXRUN**

(Optional) Provides a means for including those jobs that start within the FROM/TO span but that do not complete until after the span. This parameter indicates the number of hours past the TO value that WLP still considers jobs on the CA WA CA 7 Edition log history tapes for inclusion in the report. The scan of the log tape can complete without reading to end of data and still include all pertinent jobs.

**12**

Indicates the default number of hours past the TO value that WLP still considers jobs on the log history tapes for inclusion in the report.

***hh***

Indicates the number of hours past the TO value that WLP still considers jobs on the log history file for inclusion in the report. Values can range from 00 to 99.

**TITLE**

(Optional) Indicates whether to use CA-7 or CA Workload Automation SE in the report title.

**CA-7**

Uses CA-7 in the report title. CA-7 is the default.

**NAME**

Uses CA Workload Automation SE in the report title.

## Use Workload Planning

The workload planning facility produces projection and actual reports. A WLP1 control statement requests projections and uses data generated from the database as input. A WLP2 control statement requests actuals and uses the log history file as input.

The first decision to make is whether to run projections or actuals because you cannot do both at the same time.

## Projections

CA Roscoe, TSO, and so forth, can generate all the data for the projection run. Also, you can use the online FWLP command, which in turn creates the data for the projection run.

The following are some suggestions to help get started:

- Carefully decide the purpose of the projection. Manipulating too many variables in one projection run can cloud rather than clarify the issue.
- Using the online FWLP command saves time. The command builds the RES and JOB data statements including supplying defaults for the parameters on those statements.
- If you want the default value or condition for a parameter, omit the parameter. We recommend that you not code the parameter with the default value. Report WLP01 shows exactly what the system interprets the parameter values are.
- If a problem revolves around several trouble applications, create several data statement files, one for each trouble application. This method lets you study each application individually. To see the collective effects of all the trouble applications, the files can be concatenated for a run.

**More information:**

[Workload Planning Reports](#) (see page 266)

[WLP Control Statements](#) (see page 291)

## FWLP Control Statement Example

The following example illustrates how to set up the UCC7WLP data file using the online FWLP command, how to create the appropriate WLP1 control statement, and some typical JCL.

An end-of-month application (EOM) has been creating problems. It is usually run late, creating more problems with the downline schedule. This application has predecessors from other applications as well as inside the application. Also, EOM is the predecessor for the general ledger (GL) application.

The EOM is on the schedule as starting and finishing at certain times. Closing for February business seems to be especially problematic; therefore, the February time frame is specified on the FWLP command (FROM and TO). TRIG=J is specified because EOM has predecessors and successors. At least one workload balancing picture comes into play (RESA) and there is a predefined ddname to be used for the data file.

The command that accomplishes this is as follows:

```
FWLP, FROM=(0301, 1801), TO=(0302, 0101), TRIG=J, RESA=UCC7REOM,  
      DDNAME=PROJDATA, JOB=EOM*
```

FROM and TO specify the time slice to be used for the simulation. It is also the time at which EOM is supposed to start and finish.

TRIG specifies that job-triggered jobs are to be considered. This is because EOM has predecessors and is itself a predecessor.

The MAINID parameter has been omitted from the FWLP statement so the default for MAINID is in effect. The default is ALL. ALL CPUs are considered. The CPU in which the jobs run is not a selection criterion for the projection.

RESA specifies a module name that contains a WLB resource picture. If the RESA parameter was not specified, it would default to the resource picture currently in effect. If the RESA parameter is specified, the system uses a resource picture different from the one normally in effect. Anytime the resource picture changes during the time slice indicated with FROM and TO, FWLP generates a new RES data statement. During the time slice, the resources may shift. All these different resource pictures are reflected in the simulation.

DDNAME indicates the data file created by the FWLP command is to be saved. This is done by directing it to a specific ddname so that the file can be kept as a unique data set. If a predefined ddname is not specified, the system executes the projection but does not save the data.

The DEMAND parameter has been omitted, which means the default for DEMAND is in effect. The time slice specified is straight production time; therefore, on-request jobs are not allowed. DEMAND defaults to zero percentage.

The JOB parameter shows that all jobs starting with the letters EOM are to be used in the simulation. Specific job names could have been specified, but this captures all of them.

The SYS parameter has been omitted, which means the default for SYS is in effect. The default considers all systems. Any job starting with the letters EOM, regardless of what system it is in, is used in the projection. Therefore, no system restrictions are applied to finding and projecting the EOM jobs.

The TYPE parameter has been omitted, which means the default of ACTUAL is in effect. Also, this means that the projection honors the "don't schedule before/after" criteria for each job selected for simulation.

When the online FWLP command has completed, the data statement data set is created. This data set includes the needed RES and JOB statements. These statements can be changed if wanted. For this example, the data statements stand as FWLP created them.

The next item in the example is the WLP1 statement. This statement has to be coded before the batch run is executed because it is part of the run.

```
WLP1,SCNINCR=2,SCNSPAN=4,RERUN=ABS,RRTHRSH=5
```

The TP1 and TP2 parameters are omitted so their defaults are in effect. This means that the tape drives available for these jobs neither increase nor decrease. The values on the RES data statements created by the online FWLP command stand.

The CPUS parameter is omitted, which means that the default is in effect. This parameter actually refers to the number of initiators that are to be used in the simulation. The system multiplies the number of initiators and CPU capacity by the number in the CPUS parameter.

SCNSPAN specifies the number of hours early that any job can be scheduled during projection runs. The value here should be the same as in production CA WA CA 7 Edition. Here, 4 hours early was specified.

SCNINCR specifies a value corresponding to CA WA CA 7 Edition schedule scan wakeup intervals as defined in the initialization file. Here 2 hours was specified. If omitted, jobs are brought into the WLP simulated queues continuously.

ABS for RERUN means that the elapsed times for the rerun jobs used in the simulation are increased. The amount of the increase is equal to the spoilage percentage whenever the spoilage percentage is greater than the threshold value.

RRTHRSH is set for 5 percent, meaning that rerun frequency must be greater than 5 percent before the rerun spoilage value is applied to these jobs.

RRSPOIL is omitted, meaning that the default is in effect. The default is 30 percent. The 30 percent applies to the increase in elapsed time for each job's run. Spoilage is based on reruns.

The LPP parameter is omitted meaning that the default is in effect. LPP is the number of lines printed per page on each report. The default is 60 lines.

## Sample WLP Projections JCL

The following JCL is an example of the JCL that produces WLP projections. Refer also to job N600 from the installation process.

```
//jobname JOB local jobcard standards
//WLP EXEC PGM=SASSWP00
//* User input files
//STEPLIB DD DISP=SHR,DSN=user.CA-7.loadlib
//UCC7WLP DD DISP=SHR,DSN=user.CA-7.wlpdata
//DBPARMS DD DISP=SHR,DSN=user.CA-7.JCLLIB(DBPARMS)
//WLPCC DD *
    WLP1 control records go here <====>
//* Report DDs
//MSGRPT DD SYSOUT=a
//INTRPT DD SYSOUT=a
//TP1RPT DD SYSOUT=a
//TP2RPT DD SYSOUT=a
//CPURPT DD SYSOUT=a
//RESRPT DD SYSOUT=a
//DETRPT DD SYSOUT=a
//TRCRPT DD SYSOUT=a
//* Other SYSOUT DDs
//SYSPRINT DD SYSOUT=a
//SYSOUT DD SYSOUT=a
//SYSUDUMP DD SYSOUT=a
//* Temporary work files
//JOBFILE DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=500
//JOBFIN DD DISP=(OLD,PASS),DSN=*.JOBFILE,VOL=REF=*.JOBFILE
//JOBFOUT DD DISP=(OLD,PASS),DSN=*.JOBFILE,VOL=REF=*.JOBFILE
//JOBFWK01 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//JOBFWK02 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//JOBFWK03 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//RESFILE DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=200
//RESFIN DD DISP=(OLD,PASS),DSN=*.RESFILE,VOL=REF=*.RESFILE
//RESFOUT DD DISP=(OLD,PASS),DSN=*.RESFILE,VOL=REF=*.RESFILE
//SIMLOG DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=400
//SORTWK01 DD DISP=(OLD,PASS),DSN=*.JOBFWK01,VOL=REF=*.JOBFWK01
//SORTWK02 DD DISP=(OLD,PASS),DSN=*.JOBFWK02,VOL=REF=*.JOBFWK02
//SORTWK03 DD DISP=(OLD,PASS),DSN=*.JOBFWK02,VOL=REF=*.JOBFWK03
```

## Actuals

The fundamental use of the Actuals reports is to compare what actually happened with a projection of that same scenario. Another use is reporting on what happened during a given time frame.

The following example shows how to code the WLP2 control statement and set up the JCL for the batch run using the WLP2 version.

### WLP2 Control Statement Example

In the example used to illustrate projections, there was a trouble application named EOM. By running the Actuals reports for the timespan specified in the projections, a comparison point is established.

The time frame for the projection example was from 3/1/13 at 6:01 p.m. through 3/2/13 at 1:01 a.m. The time frame for the Actuals report is the same:

```
WLP2 FROM=13060/1801,TO=13061/0101
```

The CPUID, LPP, and MAXRUN parameters are omitted because their default values are appropriate under the circumstances. CPUID defaults to ALL, meaning that the reports reflect all CPUs involved. If you specified a CPUID, the reports would reflect the activity in that CPU only. LPP defaults to 60 lines per page for the reports. MAXRUN defaults to 12 hours.

## Sample WLP Actuals JCL

The following is an example of the JCL that could be used in the batch run for the Actuals reports. See also job N600 from the installation process.

```
//jobname JOB local jobcard standards
//WLP EXEC PGM=SASSWP00
//* User input files
//STEPLIB DD DISP=SHR,DSN=user.CA-7.loadlib
//UCC7LOG DD DISP=SHR,DSN=user.CA-7.loghist(0)
//WLPCC DD *
    WLP2 control records go here <====<
//* Report DDs
//MSGRPT DD SYSOUT=a
//DETRPT DD SYSOUT=a
//* Other SYSOUT DDs
//SYSPRINT DD SYSOUT=a
//SYSOUT DD SYSOUT=a
//SYSUDUMP DD SYSOUT=a
//* Temporary work files
//JOBFILE DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=500
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
```

## Sample WLP Combined JCL

JCL was shown for each individual control statement in the previous examples, either WLP1 or WLP2. One job can be used to run both, but not at the same time. The following example shows the combined JCL. See also job N600 from the installation process.

```
//jobname JOB local jobcard standards
//WLP EXEC PGM=SASSWP00
//* User input files
//STEPLIB DD DISP=SHR,DSN=user.CA-7.loadlib
//UCC7LOG DD DISP=SHR,DSN=user.CA-7.loghist(0)
//UCC7WLP DD DISP=SHR,DSN=user.CA-7.wlpdata
//WLPCC DD *
        control records go here <====<
//* Report DDs
//MSGRPT DD SYSOUT=a
//INTRPT DD SYSOUT=a
//TP1RPT DD SYSOUT=a
//TP2RPT DD SYSOUT=a
//CPURPT DD SYSOUT=a
//RESRPT DD SYSOUT=a
//DETRPT DD SYSOUT=a
//TRCRPT DD SYSOUT=a
//* Other SYSOUT DDs
//SYSPRINT DD SYSOUT=a
//SYSOUT DD SYSOUT=a
//SYSUDUMP DD SYSOUT=a
//* Temporary work files
//JOBFILE DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=500
//JOBFIN DD DISP=(OLD,PASS),DSN=*.JOBFILE,VOL=REF=*.JOBFILE
//JOBFOUT DD DISP=(OLD,PASS),DSN=*.JOBFILE,VOL=REF=*.JOBFILE
//JOBFWK01 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//JOBFWK02 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//JOBFWK03 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//RESFILE DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=200
//RESFIN DD DISP=(OLD,PASS),DSN=*.RESFILE,VOL=REF=*.RESFILE
//RESFOUT DD DISP=(OLD,PASS),DSN=*.RESFILE,VOL=REF=*.RESFILE
//SIMLOG DD UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),DCB=BLKSIZE=400
//SORTWK01 DD DISP=(OLD,PASS),DSN=*.JOBFWK01,VOL=REF=*.JOBFWK01
//SORTWK02 DD DISP=(OLD,PASS),DSN=*.JOBFWK02,VOL=REF=*.JOBFWK02
//SORTWK03 DD DISP=(OLD,PASS),DSN=*.JOBFWK02,VOL=REF=*.JOBFWK03
```

The following is an explanation of the JCL statements required for executing a batch WLP run:

- EXEC Statement - Points to the WLP batch simulation program (PGM=SASSWP00) and optionally provides PARM information as control statement input.

WLPCC DD Statement - Contains control statement information (WLP1 or WLP2). It is not required if PARM is specified on the EXEC statement.

STEPLIB DD Statement - Points to the CA WA CA 7 Edition Load library. The Load library on which any WLB resource definitions (UCC7Rxxx indicated on RES statements) reside must be referenced by this ddname.

The following Projection report DD statements are referenced only for WLP1:

- UCC7WLP DD Statement - Points to the data set that is to contain JOB and RES statement data created by the FWLP command or produced manually. It is required for WLP1 reports and ignored for WLP2.

INTRPT DD Statement - Hourly INIT Usage Projection Report

TP1RPT DD Statement - Hourly TP1 Usage Projection Report

TP2RPT DD Statement - Hourly TP2 Usage Projection Report

CPURPT DD Statement - Hourly CPU Usage Projection Report

RESRPT DD Statement - Resource Summary Report

The following DD statement is referenced only for WLP2:

- UCC7LOG DD Statement - Points to a standard CA WA CA 7 Edition log history/archive file. It is required for WLP2 commands, but ignored if WLP1 is specified in the control information.

The following DD statements are referenced for both WLP1 and WLP2:

- MSGRPT DD Statement - Produces error message reports reflecting control statement and data statement edit errors.

DETRPT DD Statement - Produces the Detailed Resource Utilization and Job Summary reports.

The practice of saving the statement data sets generated by the FWLP command and concatenating pertinent ones for projection runs can enhance flexibility and increase usefulness of the WLP facility. For example, if a data file is created that contains the specifics for an existing application and it is known that a new job is to be added to this application, the effects of the new job can be tested if there is a separate data file with only that application. One way to do this would be to create a new data file with only the new job, and run it concatenated with the file that has the other jobs in the application.

This technique not only adds flexibility in usage but can also reduce runtime for projections by keeping the number of variables being exercised to a minimum.



# Chapter 5: CA Earl and CA Easytrieve Reporting

---

This section contains the following topics:

[Overview](#) (see page 309)

[Report Selection](#) (see page 312)

[Report Descriptions](#) (see page 316)

## Overview

CA WA CA 7 Edition provides the source statements to create a standard set of reports using either the CA Earl or CA Easytrieve report languages. The CA Common Services tape provides abbreviated versions of CA Earl and CA Easytrieve at no extra charge. Separately priced, unrestricted versions of both products with additional facilities are also available. CA WA CA 7 Edition provides the report definition statements and JCL that both products require to create an identical set of standard reports. The reports serve a number of purposes including monitoring system performance, workload performance, manual workload intervention activities, and so forth.

The following topics present the available reports and how to produce them.

## Produce Reports

The CA WA CA 7 Edition interfaces with CA Earl and CA Easytrieve provide a number of predefined reports. The following items produce any of the predefined reports:

- Define the data and the date/time range for the report.
- Select the appropriate predefined CA Earl or CA Easytrieve definition.

These predefined definitions are selected with a "request ID." A batch job then produces the selected reports.

The interface with CA Easytrieve is accomplished through an interface program, CAL2GEZT. This interface program invokes the full CA Easytrieve product when it is available. Otherwise, the program automatically searches for the CA Easytrieve Common Component (of CA Common Services).

The interface with CA Earl accesses data through a predefined exit to CA Earl only. The interface with CA Easytrieve accesses data directly without the use of an exit. Both methods provide access to a considerable amount of vital information from the log history data.

The interface also lets you generate user-defined reports.

**More information:**

[Report Selection](#) (see page 312)

## Reports Available

The predefined reports available through CA WA CA 7 Edition, CA Earl, and CA Easytrieve are listed here. The request ID used to produce the reports and the log record type from which log reports are produced are also listed.

**More information:**

[Report Selection](#) (see page 312)

## Reports Available from Log History Data

The following reports are available from log history data.

Report Title	Request ID*	Log Type
CA-7 Job Completion Profile	CA7xx001	161
CA-7 Request Queue Activity Profile	CA7xx002	161
CA-7 Ready Queue Activity Profile	CA7xx003	161
CA-7 Active Queue Activity Profile	CA7xx004	161
CA-7 Preprocessing Queue Activity Profile	CA7xx005	161
CA-7 Postprocessing Queue Activity Profile	CA7xx006	161
CA-7 Prior-Run Queue Activity Profile	CA7xx007	161
CA-7 Database DSD/DSM Record Activity Profile	CA7xx008	161
CA-7 Database JBD/JBM Record Activity Profile	CA7xx009	161
CA-7 Database NWD/NWM Record Activity Profile	CA7xx010	161
CA-7 Database PPD/PPM Record Activity Profile	CA7xx011	161

<b>Report Title</b>	<b>Request ID*</b>	<b>Log Type</b>
CA-7 Database SID/SIM Record Activity Profile	CA7xx012	161
CA-7 Database SJD/SJM Record Activity Profile	CA7xx013	161
CA-7 Database SOD/SOM Record Activity Profile	CA7xx014	161
CA-7 Database Type I Record Activity Profile	CA7xx015	161
CA-7 Composite Database Activity Profile	CA7xx016	161
CA-7 Composite Queue Activity Profile	CA7xx017	161
CA-7 Queue Posting Activity	CA7xx018	117
CA-7 Job Scheduling/Completion Activity	CA7xx019	161
CA-7 Tape Data Set Activity	CA7xx020	161
CA-7 DASD Data Set Activity	CA7xx021	161
CA-7 Workstation Network Performance Activity	CA7xx022	161
CA-7 Input Network Performance Profile	CA7xx023	161
CA-7 Output Network Performance Profile	CA7xx024	161
CA-7 Communications Data Set Activity	CA7xx025	161
CA-7 Schedule Scan Activity	CA7xx026	161
CA-7 Queue Allocation Usage Profile	CA7xx027	162
CA-7 Job Termination Posting Dwell Time	CA7xx028	005
CA-7 Job Completion Dwell Time	CA7xx029	105
CA-7 Queue Entry Dwell Time	CA7xx030	105
CA-7 Transaction Response Time Profile	CA7xx031	161
CA-7 /LOG Command Detail	CA7xx032	129
CA-7 Trailer Queue Activity Profile	CA7xx033	161
CA-7 In-Storage Trailer Queue Profile	CA7xx034	162
CA-7 Performance Statistics Information Job Report	CA7xx035	161
CA-7 Performance Statistics Information System Report	CA7xx036	161
CA-7 Job Completion Table Data	CA7xx037	162
CA-7 JCL Data Set Access Time	CA7xx038	164

\* xx=ER for CA Earl reports  
xx=EZ for CA Easytrieve reports

## Report Titles

The report titles permit an option between CA-7 and the CA 7 r11.3 product name CA WORKLOAD AUTOMATION SE. With this version, the report titles use CA-7. If you must use the older product name, you can do so by using two supplied USERMODs.

Applying USERMOD AL2UM49 returns CA Workload Automation SE to the title of the CA Earl reports. USERMOD AL2UM50 performs the same function for the CA Easytrieve reports. The titles are centered on the page.

## Report Selection

CA Earl and CA Easytrieve definitions of these reports are provided with CA WA CA 7 Edition. Sample JCL is also provided later in this section. Producing a report requires running a batch job using the appropriate JCL, data file, and request ID.

Reports being produced from log history data also require that you provide the following:

- The log record type
- The date and time range desired (the ENDDAY initialization file option for APA reporting has no effect on these reports)

And for certain reports

- The reporting time increment

The request ID is provided as an EARLLIB member name in the CA Earl and CA Easytrieve SYSIN DD statement in the JCL. The other values are provided as either PARM keywords or through the SYSIN data set. Request IDs are provided on the list of available reports.

LOGSTATS DD is used to produce the CA WA CA 7 Edition Log Record Profile report on log records found within the specified date/time range during the PULL step.

**Note:** The installation SORT is used for sorting data in both the CA EARL and CA Easytrieve reports. SORTWKnn statements have been added to the sample JCL members. Depending on the amount of report data being requested, consider increasing the space allocation. Use the &SIZE variable to change the default of five cylinders.

**More information:**

[Report Descriptions](#) (see page 316)

## CA Earl Log History Report JCL

You can use CAL2JCL member AL2EARL to select log records and create a report through CA Earl.

## CA Easytrieve Log History Report JCL

You can use CAL2JCL member AL2EZ to select log records and create a report through CA Easytrieve.

**Note:** The PANDD and PDS ddnames in the EZTRIEVE step reference the file that contains the macro members for use in the report generation. To invoke the macros, the CA Easytrieve options table can contain the options &MACDDN=PDS and &MACRO=PDS. The CA Easytrieve module that sets these options is EZTPOPT. For more information about modifying the options table, see the CA Easytrieve documentation.

## Possible PULL Step Condition Codes

Completion of the PULL step results in one of the following condition codes:

**0**

Indicates that normal processing was completed.

**4**

Indicates that no records were found between the FROM and THRU values. For TYPE=161, summary increment records are written anyway containing all zeros for the desired range.

**8**

Indicates that one or more log records from a previous release cannot convert to the current release.

The EARL step and the EZTRIEVE step in the examples only execute when the PULL step completes with a condition code of zero. When TYPE=161, you can produce a report with all statistic values equal to zero by changing the COND parameter on the EXEC. In this way, CA Earl and CA Easytrieve let that step execute even though a condition code 4 occurs.

The BR14 step in the examples deletes the ERROUT file created in the PULL step. The BR14 step executes unless either step completes with a condition code of 8 or higher.

## Specify Log History Pull Options

Specify the options through PARM values or through SYSIN data set. The input is provided in the same format with either format. When specified in the SYSIN data set, only one record can be entered. Parameters can begin in any column as long as the data does not extend beyond column 72. The first nonblank character indicates the beginning of the parameters. The first blank encountered after that indicates the end of the parameters. This coding rule lets you code comments after one blank. Continuations are not permitted. Use parentheses and quotation marks only when a PARM is provided. They are not provided in a SYSIN record.

The following are the available options:

```
[TYPE=nnn] [,FROM={literal|yyddd[/hhmm]}] [,THRU={yyddd[/hhmm]}] [,SUMM=nnnn]
```

### TYPE

Indicates the desired record type. Specified as a decimal value of up to three digits. Record type is not the same for all reports. Take care to verify that the correct record type is used for each request. TYPE has no default record type.

### FROM

Indicates the beginning of the reporting period. Specified as a Julian date with optional time-of-day specified after the slash character. Valid time-of-day values for *hh* are 00-24 and 00-59 for *mm*. For incremental reporting of statistics interval records, this time specifies the beginning of the first increment desired. That is, a value of /0700 here for one hour increments causes the generation of the first increment record for the period 0700 through 0800. FROM has no default.

Years 70-99 are interpreted as 20th century dates. Years 00-69 are interpreted as 21st century dates.

Date range literals can be used to provide desired values.

### THRU

Indicates the ending of the reporting period. Specified as a Julian date with optional time-of-day specified after the slash character. Valid time-of-day values for *hh* are 00-24 and 00-59 for *mm*. For incremental reporting of statistics interval records, this time specifies the end of the last increment desired. That is, a value of /1600 here for one hour increments causes the generation of the last increment record for the period 1500 through 1600. THRU has no default.

Years 70-99 are interpreted as 20th century dates. Years 00-69 are interpreted as 21st century dates.

### SUMM

Indicates time increments for which summarization of statistics is desired. This keyword is only meaningful for TYPE=161. Increments determine the reporting intervals that are shown on the various reports. Specified as decimal minutes in the range 1-1440. That is, to produce records containing activity volumes in eight hour increments, specify SUMM=480. SUMM has no default.

---

## Sample Log History Pull Options

The following are examples of option specifications.

This example indicates to extract record type 161 (X'A1' statistics interval records) for an 8-hour period and summarize the activity from those records into 30-minute increments.

```
TYPE=161, FROM=yy145/0800, THRU=yy145/1600, SUMM=30
```

This example indicates to extract record type 117 (X'75' POST activity records) for the 8 hours after midnight of the current day.

```
TYPE=117, FROM=TODAY, THRU=/0800
```

This example indicates to extract record type 105 (X'69' queue movement records) for the period from the last previous Saturday midnight up to the current time.

```
TYPE=105, FROM=TWEEK
```

## User-Defined Reports

Predefined reports provide examples of what is required to generate reports from CA WA CA 7 Edition data using CA Earl and CA Easytrieve. Examine closely the following members of CA WA CA 7 Edition libraries that define these reports and use them as a guide to generating other reports.

- CAL2EARL - EARL report
- CAL2ECPB - EARL copybook members
- CAL2EZTM - Easytrieve macros
- CAL2EZTR - Easytrieve reports

Leave the CA WA CA 7 Edition members distributed with the product intact. They can be used as patterns for other report definitions.

With the version of CA Earl in CA Common Services, the exit routine provided with the product performs all access to the data. If you are using the version of CA Earl with all features provided, this restriction does not exist. However, CA Earl EARLLIB members distributed with CA WA CA 7 Edition are coded to use only the exit routine provided with CA WA CA 7 Edition.

With CA Easytrieve, all access is done directly without use of an exit. If you have only the CA Easytrieve (part of CA Common Services), the CA WA CA 7 Edition/CA Easytrieve interface program, CAL2GEZT, must be used to produce the reports. If you have the CA Easytrieve product, you can use the CA WA CA 7 Edition interface program or the CA Easytrieve main program.

## Record Definitions for CA Earl

Members in the EARLLIB DD identify the appropriate file definitions and request types for accessing information through the exit SASSERLX.

Member CA7VBLOG and filename LOGIN are used to access log history data. Other members beginning with the characters CA7LOG define the individual record types within the history data. Each of these members identifies the TYPE value that is used to access that record type.

## Record Definitions for CA Easytrieve

Members in the PANDD or PDS DD also define the file and record definitions for CA Easytrieve to access the log history.

The log history members are used to identify the TYPE value that is used to access that record type. The following members are available:

- CA7EZA1
- CA7EZA2
- CA7EZA4
- CA7EZVB
- CA7EZ05
- CA7EZ69
- CA7EZ75
- CA7EZ81

## Report Descriptions

This topic discusses each of the predefined reports available through the CA Earl and CA Easytrieve interfaces. The detailed descriptions of the report fields follow each report.

## Log Record Profile

The Log Record Profile report is produced for each PULL step. The report summarizes information about the log records that occurred in the LOGIN data set during the date/time range specified. All records occurring between the specified FROM and THRU values are included in the profile. The date/time range is shown in the report headings. The THRU date/time shown is the value from the last log record that was read from the input. If more records exist in the input file, this value is from the last record that was read before the THRU value was exceeded.

Even though all records are listed on this report, only records with a record type value matching the requested TYPE value are written to the LOGOUT data set. For TYPE=161, the date/time range requested and the SUMM value for the time increment determine the number of records.

DATE: 06 MAY yy		CA-7 LOG RECORD PROFILE						PAGE 1
FOR THE PERIOD:		01 FEB yy AT 08:00	THRU	01 FEB yy AT 12:00				
LOGTYPE	RECORDS	*----- BYTE COUNT -----*						
DEC HEX	COUNT PCT.	AVG.	TOTAL(M)	PCT.				
004 04	1,940 7.7	80	155.2	7.0				
005 05	189 .7	72	13.6	.6				
014 0E	3,241 12.8	105	340.3	15.4				
015 0F	2,572 10.2	107	275.2	12.4				
020 14	191 .7	42	8.0	.3				
026 1A	1,093 4.3	44	48.0	2.1				
067 43	10,492 41.7	34	356.7	16.1				
103 67	1,002 3.9	23	23.0	1.0				
104 68	718 2.8	24	17.2	.7				
105 69	1,494 5.9	170	253.9	11.5				
114 72	1,085 4.3	33	35.8	1.6				
115 73	276 1.0	29	8.0	.3				
117 75	135 .5	166	22.4	1.0				
130 82	1 .0	170	.1	.0				
144 90	2 .0	55	.1	.0				
145 91	13 .0	75	.9	.0				
146 92	51 .2	135	6.8	.3				
147 93	9 .0	88	.7	.0				
148 94	16 .0	89	1.4	.0				
161 A1 *	615 2.4	1,046	643.2	29.1	SUMM=0030			
TOTALS	25,135	87.9	2,210.5					

This report contains the following fields:

### LOGTYPE DEC

Identifies the log record type in decimal.

### LOGTYPE HEX

Identifies the log record type in hexadecimal. An asterisk follows the value that is given for record types matching the requested TYPE= value.

### RECORDS COUNT

Identifies the number of records of this type. A total for this column is given at the end of the report.

**RECORDS PCT.**

Identifies the percent of the total record count this type represents.

**BYTE COUNT AVG.**

Identifies the average record length of this type in bytes. The average length of all records is provided at the end of the report.

**BYTE COUNT TOTAL (M)**

Identifies the total length of all records of this type in thousands. A total of this column is given at the end of the report.

**BYTE COUNT PCT.**

Identifies the percent of the total byte count that this type represents. When TYPE=161 and LOGTYPE DEC is 161, the SUMM= value is shown following this value.

## CA7xx001 Job Completion Profile

The Job Completion Profile report provides a profile of CPU job completions for jobs submitted by CA WA CA 7 Edition. Job completions are summarized into normal and abnormal categories.

Activity is shown in time increments specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 08.59.16		CA-7 JOB COMPLETION PROFILE						PAGE 1 REQUEST - CA7xx001	
TIMES	JCL ERRORS	COND-CODE FAILURES	USER ABENDS	SYSTEM ABENDS	NORMAL EOJS	TOTAL EOJS	PERCENT NORMAL		
yy.032/08:00 - 08:30	0	0	0	0	17	17	100.0		
yy.032/08:30 - 09:00	0	0	0	0	21	21	100.0		
yy.032/09:00 - 09:30	0	0	0	0	40	40	100.0		
yy.032/09:30 - 10:00	0	0	0	0	20	20	100.0		
yy.032/10:00 - 10:30	0	0	0	0	25	25	100.0		
yy.032/10:30 - 11:00	0	0	2	1	16	19	84.2		
yy.032/11:00 - 11:30	0	0	1	0	29	30	96.6		
yy.032/11:30 - 12:00	0	0	0	0	17	17	100.0		
END OF REPORT									

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**JCL ERRORS**

Identifies the number of jobs flushed with a JCL error.

**COND-CODE FAILURES**

Identifies the number of jobs that failed job level (job definition panel RO and COND-CODE fields) or step level (#SCC statement) condition code test.

**USER ABENDS**

Identifies the number of jobs that abended with an *Unnnn* type of abend.

**SYSTEM ABENDS**

Identifies the number of jobs that abended with a *Sxxx* type of abend.

**NORMAL EOJS**

Identifies the number of jobs that ended without any of the preceding conditions.

**TOTAL EOJS**

Identifies the total of all completions shown in the previous columns.

**PERCENT NORMAL**

Identifies the percentage of total completions that were normal.

## CA7xx002 Request Queue Activity Profile

The Request Queue Activity Profile report provides a profile of CA WA CA 7 Edition request queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total queue activity in the CA7xx017 Composite Queue Activity Profile.

12/11/yy TIME: 14.12.03		CA-7 REQUEST QUEUE ACTIVITY PROFILE					PAGE 1 REQUEST - CA7xx002
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	
yy.032/08:00 - 08:30	37	18	2,962	100	3,117	95.0	
yy.032/08:30 - 09:00	43	21	5,432	150	5,646	96.2	
yy.032/09:00 - 09:30	80	41	6,747	188	7,056	95.6	
yy.032/09:30 - 10:00	45	21	3,898	112	4,076	95.6	
yy.032/10:00 - 10:30	57	25	5,680	147	5,909	96.1	
yy.032/10:30 - 11:00	49	19	6,176	135	6,379	96.8	
yy.032/11:00 - 11:30	52	30	7,027	120	7,229	97.2	
yy.032/11:30 - 11:00	34	19	5,198	101	5,352	97.1	

END OF REPORT

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**ADDS**

Identifies the number of records added to the queue.

**DELETES**

Identifies the number of records deleted from the queue.

**READS**

Identifies the number of records read from the queue.

**REPLACES**

Identifies the number of records replaced (updated) in the queue.

**TOTAL ACCESSES**

Identifies the total number of accesses to the queue.

**PERCENT READS**

Identifies the percent of total accesses that were reads.

## CA7xx003 Ready Queue Activity Profile

The Ready Queue Activity Profile report provides a profile of CA WA CA 7 Edition ready queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total queue activity in the CA7xx017 Composite Queue Activity Profile.

12/11/yy TIME: 14.13.03		CA-7 READY QUEUE ACTIVITY PROFILE					PAGE 1 REQUEST - CA7xx003
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	
yy.032/08:00 - 08:30	15	0	306	30	351	87.1	
yy.032/08:30 - 09:00	30	0	504	54	588	85.7	
yy.032/09:00 - 09:30	35	0	1,800	79	1,914	94.0	
yy.032/09:30 - 10:00	20	0	466	40	526	88.5	
yy.032/10:00 - 10:30	26	0	577	50	653	88.3	
yy.032/10:30 - 11:00	23	0	639	41	703	90.8	
yy.032/11:00 - 11:30	26	0	773	56	855	90.4	
yy.032/11:30 - 12:00	21	0	490	41	552	88.7	

END OF REPORT

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### ADDS

Identifies the number of records added to the queue.

### DELETES

Identifies the number of records deleted from the queue.

### READS

Identifies the number of records read from the queue.

### REPLACES

Identifies the number of records replaced (updated) in the queue.

### TOTAL ACCESSES

Identifies the total number of accesses to the queue.

### PERCENT READS

Identifies the percent of total accesses that were reads.

## CA7xx004 Active Queue Activity Profile

The Active Queue Activity Profile report provides a profile of CA WA CA 7 Edition active queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total queue activity in the CA7xx017 Composite Queue Activity Profile.

12/11/yy TIME: 14.13.25		CA-7 ACTIVE QUEUE ACTIVITY PROFILE					PAGE 1 REQUEST - CA7xx004
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	
yy.032/08:00 - 08:30	15	0	451	139	605	74.5	
yy.032/08:30 - 09:00	25	0	1,025	288	1,338	76.6	
yy.032/09:00 - 09:30	40	0	2,181	446	2,667	81.7	
yy.032/09:30 - 10:00	20	0	1,064	212	1,296	82.0	
yy.032/10:00 - 10:30	24	0	1,307	289	1,620	80.6	
yy.032/10:30 - 11:00	20	0	797	184	1,001	79.6	
yy.032/11:00 - 11:30	27	0	1,194	340	1,561	76.4	
yy.032/11:30 - 12:00	20	0	569	164	753	75.5	
END OF REPORT							

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**ADDS**

Identifies the number of records added to the queue.

**DELETES**

Identifies the number of records deleted from the queue.

**READS**

Identifies the number of records read from the queue.

**REPLACES**

Identifies the number of records replaced (updated) in the queue.

**TOTAL ACCESSES**

Identifies the total number of accesses to the queue.

**PERCENT READS**

Identifies the percent of total accesses that were reads.

## CA7xx005 Preprocessing Queue Activity Profile

The Preprocessing Queue Activity Profile report provides a profile of CA WA CA 7 Edition preprocessing queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total queue activity in the CA7xx017 Composite Queue Activity Profile.

12/11/yy TIME: 14.13.25		CA-7 PREPROCESSING QUEUE ACTIVITY PROFILE					PAGE 1 REQUEST - CA7xx005
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	
yy.032/08:00 - 08:30	10	2	443	13	468	94.6	
yy.032/08:30 - 09:00	0	8	482	14	504	95.6	
yy.032/09:00 - 09:30	11	5	648	16	680	95.2	
yy.032/09:30 - 10:00	0	1	497	5	503	98.8	
yy.032/10:00 - 10:30	18	6	646	27	697	92.6	
yy.032/10:30 - 11:00	0	2	561	4	567	98.9	
yy.032/11:00 - 11:30	15	4	493	26	538	91.6	
yy.032/11:30 - 12:00	0	6	724	10	740	97.8	

END OF REPORT

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### ADDS

Identifies the number of records added to the queue.

### DELETES

Identifies the number of records deleted from the queue.

### READS

Identifies the number of records read from the queue.

### REPLACES

Identifies the number of records replaced (updated) in the queue.

### TOTAL ACCESSES

Identifies the total number of accesses to the queue.

### PERCENT READS

Identifies the percent of total accesses that were reads.

## CA7xx006 Postprocessing Queue Activity Profile

The Postprocessing Queue Activity Profile report provides a profile of CA WA CA 7 Edition postprocessing queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total queue activity in the CA7xx017 Composite Queue Activity Profile.

12/11/yy TIME: 14.13.25		CA-7 POSTPROCESSING QUEUE ACTIVITY PROFILE					PAGE 1 REQUEST - CA7xx006
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	
yy.032/08:00 - 08:30	0	0	33	0	33	100.0	
yy.032/08:30 - 09:00	0	0	33	0	33	100.0	
yy.032/09:00 - 09:30	0	0	33	0	33	100.0	
yy.032/09:30 - 10:00	0	0	33	0	33	100.0	
yy.032/10:00 - 10:30	0	0	33	0	33	100.0	
yy.032/10:30 - 11:00	2	0	63	2	67	94.0	
yy.032/11:00 - 11:30	0	0	39	0	39	100.0	
yy.032/11:30 - 12:00	0	0	39	0	39	100.0	
END OF REPORT							

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**ADDS**

Identifies the number of records added to the queue.

**DELETES**

Identifies the number of records deleted from the queue.

**READS**

Identifies the number of records read from the queue.

**REPLACES**

Identifies the number of records replaced (updated) in the queue.

**TOTAL ACCESSES**

Identifies the total number of accesses to the queue.

**PERCENT READS**

Identifies the percent of total accesses that were reads.

## CA7xx007 Prior-Run Queue Activity Profile

The Prior-Run Queue Activity Profile report provides a profile of CA WA CA 7 Edition prior-run queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total queue activity in the CA7xx017 Composite Queue Activity Profile.

12/11/yy TIME: 14.13.25		CA-7 PRIOR-RUN QUEUE ACTIVITY PROFILE					PAGE 1
							REQUEST - CA7xx007
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	
yy.032/08:00 - 08:30	0	0	267	18	285	93.6	
yy.032/08:30 - 09:00	0	0	113	22	135	83.7	
yy.032/09:00 - 09:30	0	0	284	40	324	87.6	
yy.032/09:30 - 10:00	0	0	105	21	126	83.3	
yy.032/10:00 - 10:30	0	0	170	25	195	87.1	
yy.032/10:30 - 11:00	0	0	70	18	88	79.5	
yy.032/11:00 - 11:30	2	0	182	27	211	86.2	
yy.032/11:30 - 12:00	0	0	69	18	87	79.3	

END OF REPORT

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### ADDS

Identifies the number of records added to the queue.

### DELETES

Identifies the number of records deleted from the queue.

### READS

Identifies the number of records read from the queue.

### REPLACES

Identifies the number of records replaced (updated) in the queue.

### TOTAL ACCESSES

Identifies the total number of accesses to the queue.

### PERCENT READS

Identifies the percent of total accesses that were reads.

## CA7xx008 Database DSD/DSM Record Activity Profile

The Database DSD/DSM Record Activity Profile report provides a profile of the activity for data set directory (DSD) and member (DSM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 14.16.44		CA-7 DATABASE DSD/DSM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx008	
TIMES	DSD ADDS	DSD DELETES	DSD READS	DSD REPLACES	DSD TOTAL	PCT READS	DSM ADDS	DSM DELETES	DSM READS	DSM REPLACES	DSM TOTAL	PCT READS	
yy.032/08:00 - 08:30	0	0	320	0	320	100.0	0	0	565	61	626	90.2	
yy.032/08:30 - 09:00	0	0	470	0	470	100.0	0	0	630	175	805	78.2	
yy.032/09:00 - 09:30	0	0	834	0	834	100.0	0	0	1,475	180	1,655	89.1	
yy.032/09:30 - 10:00	0	0	450	0	450	100.0	0	0	743	43	786	94.5	
yy.032/10:00 - 10:30	0	0	526	0	526	100.0	0	0	1,074	124	1,198	89.6	
yy.032/10:30 - 11:00	0	0	414	0	414	100.0	0	0	515	59	574	89.7	
yy.032/11:00 - 11:30	5	0	333	5	343	97.0	5	0	1,315	184	1,504	87.4	
yy.032/11:30 - 12:00	0	0	241	0	241	100.0	0	0	272	74	346	78.6	
END OF REPORT													

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**DSD ADDS**

Identifies the number of data set directory records added to the database.

**DSD DELETES**

Identifies the number of data set directory records deleted from the database.

**DSD READS**

Identifies the number of data set directory records read from the database.

**DSD REPLACES**

Identifies the number of data set directory records replaced (updated) in the database.

**DSD TOTAL**

Identifies the total number of data set directory accesses to the database.

**PCT DSD READS**

Identifies the percent of total data set directory accesses that were reads.

**DSM ADDS**

Identifies the number of data set member records added to the database.

**DSM DELETES**

Identifies the number of data set member records deleted from the database.

**DSM READS**

Identifies the number of data set member records read from the database.

**DSM REPLACES**

Identifies the number of data set member records replaced (updated) in the database.

**DSM TOTAL**

Identifies the total number of data set member accesses to the database.

**PCT DSM READS**

Identifies the percent of total data set member accesses that were reads.

## CA7xx009 Database JBD/JBM Record Activity Profile

The Database JBD/JBM Record Activity Profile report provides a profile of the database activity for CPU job directory (JBD) and member (JBM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 09.03.09		CA-7 DATABASE JBD/JBM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx009	
TIMES	JBD ADDS	JBD DELETES	JBD READS	JBD REPLACES	JBD TOTAL	PCT JBD READS	JBM ADDS	JBM DELETES	JBM READS	JBM REPLACES	JBM TOTAL	PCT JBM READS	
yy.032/08:00 - 08:30	0	0	160	20	180	88.8	0	0	1,520	18	1,538	98.8	
yy.032/08:30 - 09:00	0	0	157	22	179	87.7	0	0	2,504	21	2,525	99.1	
yy.032/09:00 - 09:30	0	0	255	40	295	86.4	0	0	4,197	40	4,237	99.0	
yy.032/09:30 - 10:00	0	0	139	21	160	86.8	0	0	2,042	20	2,062	99.0	
yy.032/10:00 - 10:30	0	0	169	25	194	87.1	0	0	2,396	25	2,421	98.9	
yy.032/10:30 - 11:00	0	0	186	19	205	90.7	0	0	3,696	22	3,718	99.4	
yy.032/11:00 - 11:30	2	0	6,321	36	6,359	99.4	2	0	1,694	29	1,730	97.9	
yy.032/11:30 - 12:00	0	0	4,998	18	5,016	99.6	0	0	2,050	17	2,067	99.1	
END OF REPORT													

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**JBD ADDS**

Identifies the number of job directory records added to the database.

**JBD DELETES**

Identifies the number of job directory records deleted from the database.

**JBD READS**

Identifies the number of job directory records read from the database.

**JBD REPLACES**

Identifies the number of job directory records replaced (updated) in the database.

**JBD TOTAL**

Identifies the total number of job directory accesses to the database.

**PCT JBD READS**

Identifies the percent of total job directory accesses that were reads.

**JBM ADDS**

Identifies the number of job member records added to the database.

**JBM DELETES**

Identifies the number of job member records deleted from the database.

**JBM READS**

Identifies the number of job member records read from the database.

**JBM REPLACES**

Identifies the number of job member records replaced (updated) in the database.

**JBM TOTAL**

Identifies the total number of job member accesses to the database.

**PCT JBM READS**

Identifies the percent of total job member accesses that were reads.

## CA7xx010 Database NWD/NWM Record Activity Profile

The Database NWD/NWM Record Activity Profile report provides a profile of the database activity for workstation network directory (NWD) and member (NWM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 09.03.37		CA-7 DATABASE NWD/NWM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx010	
TIMES	NWD ADDS	NWD DELETES	NWD READS	NWD REPLACES	NWD TOTAL	PCT NWD READS	NWM ADDS	NWM DELETES	NWM READS	NWM REPLACES	NWM TOTAL	PCT NWM READS	
yy.032/08:00 - 08:30	0	0	11	0	11	100.0	0	0	11	0	11	100.0	
yy.032/08:30 - 09:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/09:00 - 09:30	0	0	12	0	12	100.0	0	0	12	0	12	100.0	
yy.032/09:30 - 10:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/10:00 - 10:30	0	0	18	2	20	90.0	0	0	18	2	20	90.0	
yy.032/10:30 - 11:00	0	0	6	0	6	100.0	0	0	2	0	2	100.0	
yy.032/11:00 - 11:30	0	0	15	5	20	75.0	0	0	15	5	20	75.0	
yy.032/11:30 - 12:00	0	0	1	0	1	100.0	0	0	0	0	0	.0	
END OF REPORT													

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### NWD ADDS

Identifies the number of network directory records added to the database.

### NWD DELETES

Identifies the number of network directory records deleted from the database.

### NWD READS

Identifies the number of network directory records read from the database.

### NWD REPLACES

Identifies the number of network directory records replaced (updated) in the database.

### NWD TOTAL

Identifies the total number of network directory accesses to the database.

### PCT NWD READS

Identifies the percent of total network directory accesses that were reads.

**NWM ADDS**

Identifies the number of network member records added to the database.

**NWM DELETES**

Identifies the number of network member records deleted from the database.

**NWM READS**

Identifies the number of network member records read from the database.

**NWM REPLACES**

Identifies the number of network member records replaced (updated) in the database.

**NWM TOTAL**

Identifies the total number of network member accesses to the database.

**PCT NWM READS**

Identifies the percent of total network member accesses that were reads.

## CA7xx011 Database PPD/PPM Record Activity Profile

The Database PPD/PPM Record Activity Profile report provides a profile of the database activity for prose directory (PPD) and member (PPM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 14.18.01		CA-7 DATABASE PPD/PPM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx011	
TIMES	PPD ADDS	PPD DELETES	PPD READS	PPD REPLACES	PPD TOTAL	PCT PPD READS	PPM ADDS	PPM DELETES	PPM READS	PPM REPLACES	PPM TOTAL	PCT PPM READS	
yy.032/08:00 - 08:30	0	0	6	0	6	100.0	0	0	5	0	5	100.0	
yy.032/08:30 - 09:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/09:00 - 09:30	0	0	4	1	5	80.0	0	0	4	0	4	100.0	
yy.032/09:30 - 10:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/10:00 - 10:30	0	0	21	7	28	75.0	0	0	17	3	20	85.0	
yy.032/10:30 - 11:00	0	0	9	1	10	90.0	0	0	6	1	7	85.7	
yy.032/11:00 - 11:30	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/11:30 - 12:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
END OF REPORT													

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**PPD ADDS**

Identifies the number of prose directory records added to the database.

**PPD DELETES**

Identifies the number of prose directory records deleted from the database.

**PPD READS**

Identifies the number of prose directory records read from the database.

**PPD REPLACES**

Identifies the number of prose directory records replaced (updated) in the database.

**PPD TOTAL**

Identifies the total number of prose directory accesses to the database.

**PCT PPD READS**

Identifies the percent of total prose directory accesses that were reads.

**PPM ADDS**

Identifies the number of prose member records added to the database.

**PPM DELETES**

Identifies the number of prose member records deleted from the database.

**PPM READS**

Identifies the number of prose member records read from the database.

**PPM REPLACES**

Identifies the number of prose member records replaced (updated) in the database.

**PPM TOTAL**

Identifies the total number of prose member accesses to the database.

**PCT PPM READS**

Identifies the percent of total prose member accesses that were reads.

## CA7xx012 Database SID/SIM Record Activity Profile

The Database SID/SIM Record Activity Profile report provides a profile of the database activity for input workstation network schedule directory (SID) and member (SIM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 14.18.26		CA-7 DATABASE SID/SIM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx012	
TIMES	SID ADDS	SID DELETES	SID READS	SID REPLACES	SID TOTAL	PCT READS	SIM ADDS	SIM DELETES	SIM READS	SIM REPLACES	SIM TOTAL	PCT READS	
yy.032/08:00 - 08:30	0	0	260	0	260	100.0	0	0	491	0	491	100.0	
yy.032/08:30 - 09:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/09:00 - 09:30	0	0	260	0	260	100.0	0	0	491	0	491	100.0	
yy.032/09:30 - 10:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/10:00 - 10:30	0	0	260	0	260	100.0	0	0	491	0	491	100.0	
yy.032/10:30 - 11:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/11:00 - 11:30	0	0	260	0	260	100.0	0	0	491	0	491	100.0	
yy.032/11:30 - 12:00	0	0	2	2	4	50.0	0	0	1	1	2	50.0	
END OF REPORT													

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**SID ADDS**

Identifies the number of input schedule directory records added to the database.

**SID DELETES**

Identifies the number of input schedule directory records deleted from the database.

**SID READS**

Identifies the number of input schedule directory records read from the database.

**SID REPLACES**

Identifies the number of input schedule directory records replaced (updated) in the database.

**SID TOTAL**

Identifies the total number of input schedule directory accesses to the database.

**PCT SID READS**

Identifies the percent of total input schedule directory accesses that were reads.

**SIM ADDS**

Identifies the number of input schedule member records added to the database.

**SIM DELETES**

Identifies the number of input schedule member records deleted from the database.

**SIM READS**

Identifies the number of input schedule member records read from the database.

**SIM REPLACES**

Identifies the number of input schedule member records replaced (updated) in the database.

**SIM TOTAL**

Identifies the total number of input schedule member accesses to the database.

**PCT SIM READS**

Identifies the percent of total input schedule member accesses that were reads.

## CA7xx013 Database SJD/SJM Record Activity Profile

The Database SJD/SJM Record Activity Profile report provides a profile of the database activity for CPU job schedule directory (SJD) and member (SJM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 14.18.51		CA-7 DATABASE SJD/SJM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx013	
TIMES	SJD ADDS	SJD DELETES	SJD READS	SJD REPLACES	SJD TOTAL	PCT READS	SJM ADDS	SJM DELETES	SJM READS	SJM REPLACES	SJM TOTAL	PCT READS	
yy.032/08:00 - 08:30	0	0	332	0	332	100.0	0	0	638	0	638	100.0	
yy.032/08:30 - 09:00	0	0	1	0	1	100.0	0	0	2	0	2	100.0	
yy.032/09:00 - 09:30	0	0	332	0	332	100.0	0	0	638	0	638	100.0	
yy.032/09:30 - 10:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/10:00 - 10:30	0	0	331	0	331	100.0	0	0	636	0	636	100.0	
yy.032/10:30 - 11:00	0	0	1	1	2	50.0	0	0	8	4	12	66.6	
yy.032/11:00 - 11:30	0	0	332	0	332	100.0	0	0	637	0	637	100.0	
yy.032/11:30 - 12:00	0	0	1	0	1	100.0	0	0	3	1	4	75.0	
END OF REPORT													

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**SJD ADDS**

Identifies the number of job schedule directory records added to the database.

**SJD DELETES**

Identifies the number of job schedule directory records deleted from the database.

**SJD READS**

Identifies the number of job schedule directory records read from the database.

**SJD REPLACES**

Identifies the number of job schedule directory records replaced (updated) in the database.

**SJD TOTAL**

Identifies the total number of job schedule directory accesses to the database.

**PCT SJD READS**

Identifies the percent of total job schedule directory accesses that were reads.

**SJM ADDS**

Identifies the number of job schedule member records added to the database.

**SJM DELETES**

Identifies the number of job schedule member records deleted from the database.

**SJM READS**

Identifies the number of job schedule member records read from the database.

**SJM REPLACES**

Identifies the number of job schedule member records replaced (updated) in the database.

**SJM TOTAL**

Identifies the total number of job schedule member accesses to the database.

**PCT SJM READS**

Identifies the percent of total job schedule member accesses that were reads.

## CA7xx014 Database SOD/SOM Record Activity Profile

The Database SOD/SOM Record Activity Profile report provides a profile of the database activity for output workstation network schedule directory (SOD) and member (SOM) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 14.19.13		CA-7 DATABASE SOD/SOM RECORD ACTIVITY PROFILE										PAGE 1 REQUEST - CA7xx014	
TIMES	SOD ADDS	SOD DELETES	SOD READS	SOD REPLACES	SOD TOTAL	PCT SOD READS	SOM ADDS	SOM DELETES	SOM READS	SOM REPLACES	SOM TOTAL	PCT SOM READS	
yy.032/08:00 - 08:30	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/08:30 - 09:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/09:00 - 09:30	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/09:30 - 10:00	0	0	2	0	2	100.0	0	0	1	0	1	100.0	
yy.032/10:00 - 10:30	0	0	0	0	0	.0	0	0	0	0	0	.0	
yy.032/10:30 - 11:00	0	0	4	1	5	80.0	0	0	12	8	20	60.0	
yy.032/11:00 - 11:30	0	0	7	3	10	70.0	0	0	5	2	7	71.4	
yy.032/11:30 - 12:00	0	0	0	0	0	.0	0	0	0	0	0	.0	
END OF REPORT													

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### SOD ADDS

Identifies the number of output schedule directory records added to the database.

### SOD DELETES

Identifies the number of output schedule directory records deleted from the database.

### SOD READS

Identifies the number of output schedule directory records read from the database.

### SOD REPLACES

Identifies the number of output schedule directory records replaced (updated) in the database.

### SOD TOTAL

Identifies the total number of output schedule directory accesses to the database.

### PCT SOD READS

Identifies the percent of total output schedule directory accesses that were reads.

**SOM ADDS**

Identifies the number of output schedule member records added to the database.

**SOM DELETES**

Identifies the number of output schedule member records deleted from the database.

**SOM READS**

Identifies the number of output schedule member records read from the database.

**SOM REPLACES**

Identifies the number of output schedule member records replaced (updated) in the database.

**SOM TOTAL**

Identifies the total number of output schedule member accesses to the database.

**PCT SOM READS**

Identifies the percent of total output schedule member accesses that were reads.

## CA7xx015 Database Type I Record Activity Profile

The Database Type I Record Activity Profile report provides a profile of the database activity for index (I) records. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

This data is also included as one of the line items comprising total database activity in the CA7xx016 Composite Database Activity Profile.

12/11/yy TIME: 14.19.36		CA-7 DATABASE TYPE I RECORD ACTIVITY PROFILE					PAGE 1 REQUEST - CA7xx015
TIMES	I ADDS	I DELETES	I READS	I REPLACES	I TOTAL	PCT I READS	
yy.032/08:00 - 08:30	0	2	273	51	326	83.7	
yy.032/08:30 - 09:00	0	0	554	127	681	81.3	
yy.032/09:00 - 09:30	0	0	879	263	1,142	76.9	
yy.032/09:30 - 10:00	0	0	702	103	805	87.2	
yy.032/10:00 - 10:30	0	0	766	145	911	84.0	
yy.032/10:30 - 11:00	0	0	1,199	448	1,647	72.7	
yy.032/11:00 - 11:30	5	0	692	194	891	77.6	
yy.032/11:30 - 12:00	0	0	388	88	476	81.5	
END OF REPORT							

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**I ADDS**

Identifies the number of index records added to the database.

**I DELETES**

Identifies the number of index records deleted from the database.

**I READS**

Identifies the number of index records read from the database.

**I REPLACES**

Identifies the number of index records replaced (updated) in the database.

**I TOTAL**

Identifies the total number of index accesses to the database.

**PCT I READS**

Identifies the percent of total index accesses that were reads.

## CA7xx016 Composite Database Activity Profile

The Composite Database Activity Profile report provides a composite profile of the database activity. The report is a summary of the information provided on reports CA7xx008 through CA7xx015. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

Information is provided in groups of 16 detail lines and a total line followed by a DB LOCKOUTS line for each increment of time. The value shown for DB LOCKOUTS indicates the number of times a database access could not be made due to an update being in progress.

12/11/yy		CA-7 COMPOSITE DATABASE ACTIVITY PROFILE					PAGE 4
TIME: 14.20.00							REQUEST - CA7xx016
TIMES/ TYPES	ADDS	DELETES	READS	REPLACES	TOTAL	PCT READS	
-----							
yy.032/11:00 - 11:30							
TYPE - DSD	5	0	333	5	343	97.0	
TYPE - DSM	5	0	1,315	184	1,504	87.4	
TYPE - JBD	2	0	6,321	36	6,359	99.4	
TYPE - JBM	2	0	1,694	29	1,730	97.9	
TYPE - NWD	0	0	15	0	15	100.0	
TYPE - NNM	0	0	15	0	15	100.0	
TYPE - PPD	0	0	0	0	0	.0	
TYPE - PPM	0	0	0	0	0	.0	
TYPE - SID	0	0	260	0	260	100.0	
TYPE - SIM	0	0	491	0	491	100.0	
TYPE - SJD	0	0	332	0	332	100.0	
TYPE - SJM	0	0	637	0	637	100.0	
TYPE - SOD	0	0	0	0	0	.0	
TYPE - SOM	0	0	0	0	0	.0	
TYPE - I	5	0	692	194	891	77.6	
TOTALS	19	0	12,105	448	12,577	96.2	
DB LOCKOUTS	0						
yy.032/11:30 - 12:00							
TYPE - DSD	0	0	241	0	241	100.0	
TYPE - DSM	0	0	272	74	346	78.6	
TYPE - JBD	0	0	4,998	18	5,016	99.6	
TYPE - JBM	0	0	2,050	17	2,067	99.1	
TYPE - NWD	0	0	1	0	1	100.0	
TYPE - NNM	0	0	0	0	0	.0	
TYPE - PPD	0	0	0	0	0	.0	
TYPE - PPM	0	0	0	0	0	.0	
TYPE - SID	0	0	2	0	2	100.0	
TYPE - SIM	0	0	1	0	1	100.0	
TYPE - SJD	0	0	1	0	1	100.0	
TYPE - SJM	0	0	3	0	3	100.0	
TYPE - SOD	0	0	0	0	0	.0	
TYPE - SOM	0	0	0	0	0	.0	
TYPE - I	0	0	388	88	476	81.5	
TOTALS	0	0	7,957	197	8,154	97.5	
DB LOCKOUTS	0						

This report contains the following fields:

**TIMES/TYPES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

TYPE - xxx appears in this column for record type detail lines to identify the type.

**ADDS**

Identifies the number of records added to the database.

**DELETES**

Identifies the number of records deleted from the database.

**READS**

Identifies the number of records read from the database.

**REPLACES**

Identifies the number of records replaced (updated) in the database.

**TOTAL**

Identifies the total number of accesses to the database.

**PCT READS**

Identifies the percent of total accesses that were reads.

## CA7xx017 Composite Queue Activity Profile

The Composite Queue Activity Profile report provides a composite profile of the queue activity. The report is a summary of the information provided on reports CA7xx002 through CA7xx007. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

Information is provided in groups of seven detail lines and a total line for each increment of time.

12/11/yy TIME: 13.56.17		CA-7 COMPOSITE QUEUE ACTIVITY PROFILE						PAGE 1 REQUEST - CA7xx017	
TIMES/ QUEUES	ADDS	DELETES	READS	REPLACES	TOTAL	PCT READS	QLOCKS	PCT QLOCKS	
-----									
yy.062/19:00 - 19:15									
QUEUE - REQ	164	82	40,004	466	40,716	98.2			
QUEUE - RDY	111	0	6,076	214	6,401	94.9			
QUEUE - ACT	77	0	6,571	804	7,452	97.1			
QUEUE - PRN	0	0	51,201	78	51,279	99.8			
QUEUE - PRE	0	0	0	0	0	.0			
QUEUE - PST	0	0	0	0	0	.0			
TOTALS	352	82	103,852	1,562	105,848	98.1	2,394	2.3	
yy.062/19:15 - 19:30									
QUEUE - REQ	183	111	53,507	351	54,152	98.8			
QUEUE - RDY	59	0	5,616	187	5,862	95.8			
QUEUE - ACT	94	0	9,691	978	10,763	90.0			
QUEUE - PRN	0	0	153,257	115	153,372	99.9			
QUEUE - PRE	0	0	0	0	0	.0			
QUEUE - PST	0	0	0	0	0	.0			
TOTALS	336	111	222,071	1,631	224,149	99.0	1,453	0.6	
yy.062/19:30 - 19:45									
QUEUE - REQ	286	149	69,295	754	70,484	98.3			
QUEUE - RDY	111	0	4,526	316	4,953	91.3			
QUEUE - ACT	113	0	13,165	1,323	14,601	90.1			
QUEUE - PRN	0	0	76,823	145	76,968	99.8			
QUEUE - PRE	0	0	0	0	0	.0			
QUEUE - PST	0	0	0	0	0	.0			
TOTALS	510	149	163,809	2,538	167,006	98.0	2,234	1.3	
yy.062/19:45 - 20:00									
QUEUE - REQ	244	134	66,379	598	67,355	98.5			
QUEUE - RDY	113	0	2,635	287	3,035	86.8			
QUEUE - ACT	112	0	11,945	1,488	13,545	yy.1			
QUEUE - PRN	0	0	38,547	126	38,673	99.6			
QUEUE - PRE	0	0	0	0	0	.0			
QUEUE - PST	0	0	0	0	0	.0			
TOTALS	469	134	119,506	2,499	122,608	97.4	1,796	1.5	
yy.062/20:00 - 20:15									
QUEUE - REQ	324	167	79,735	873	81,099	98.3			
QUEUE - RDY	138	0	4,966	351	5,455	91.0			
QUEUE - ACT	136	0	16,340	1,125	17,601	92.8			
QUEUE - PRN	0	0	76,891	175	77,066	99.7			
QUEUE - PRE	0	0	0	0	0	.0			
QUEUE - PST	0	0	0	0	0	.0			
TOTALS	598	167	177,932	2,524	181,221	98.1	1,658	0.9	
END OF REPORT									

This report contains the following fields:

**TIMES/QUEUES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

QUEUE - xxx appears in this column for queue detail lines to identify the queue.

**ADDS**

Identifies the number of records added to the queue.

**DELETES**

Identifies the number of records deleted from the queue.

**READS**

Identifies the number of records read from the queue.

**REPLACES**

Identifies the number of records replaced (updated) in the queue.

**TOTAL**

Identifies the total number of accesses to the queue.

**PCT READS**

Identifies the percent of total accesses that were reads.

**QLOCKS**

Identifies the number of times that queue access was prevented due to update activity.

**PCT QLOCKS**

Identifies the percent of QLOCKS that occurred as compared to total accesses.

## CA7xx018 Queue Posting Activity

The Queue Posting Activity report reflects manual activities that affected the flow of work through the queues. These activities are the direct result of commands entered through a CA 7 Online or batch terminal. The time-of-day shown in each activity record can be matched against the SASSHR02 Transaction Detail report to help identify which terminal/operator requested the function. One detail line is shown for each activity item. The log record type from which this report is produced is TYPE=117.

See the type 117 (X'75') Post activity log record for the input used.

12/11/yy		CA-7 QUEUE POSTING ACTIVITY				PAGE 1
TIME: 13.09.24						REQUEST - CA7xx018
JULIAN	STATION/	CA-7	CA-7			
DATE HH MM SS	JOB NAME	JOB#	QUEUE	ACTION TAKEN		
yy.032/08:03:57	RMD#0035	398	PRE	REMIND COMMAND		
yy.032/08:17:29	PPSTK345	500	REQ	DEMANDED		
yy.032/08:17:29	PPSTK345	500	REQ	HELD		
yy.032/08:31:06	PPPTS005	502	REQ	DEMANDED		
yy.032/08:42:30	PCPEP005	506	REQ	DEMANDED		
yy.032/08:44:37	FREIGHT	423	PRE	LOGGED OUT		
yy.032/08:47:56	PPSTK345	509	REQ	RELEASED		
yy.032/08:49:29	PPPTS150	511	REQ	DEMANDED		
yy.032/08:50:25	UC04	394	PRE	LOGGED OUT		
yy.032/08:56:54	TPC3	395	PRE	LOGGED OUT		
yy.032/08:58:36	PCPEP050	523	REQ	DEMANDED		
yy.032/09:00:32	PPLBX250	525	REQ	DEMANDED		
yy.032/09:00:56	PPLBX050	526	REQ	RSVP		
yy.032/09:03:32	PPLBX270	543	REQ	DEMANDED		
yy.032/09:06:55	PPLBX330	545	REQ	POST COMMAND NWK=TPC04Y		
yy.032/09:16:08	TPC3	484	PRE	LOGGED OUT		
yy.032/09:49:28	PPNND502	589	REQ	LOADED		
yy.032/10:03:06	PFPCS005	601	REQ	DEMANDED		
yy.032/10:09:55	N/A	0	REQ	POST COMMAND JOB=PPLBX030		
yy.032/10:35:20	PPDAP450	656	REQ	DEMANDED		
yy.032/10:36:40	PCHRS450	578	REQ	UPDATED VIA XUPD		
yy.032/10:36:41	PPPTS400	655	REQ	RELEASED		
yy.032/10:50:48	PPTHP576	666	REQ	DEMANDED		
yy.032/10:52:08	PKFIS587	663	REQ	RUN COMMAND		
yy.032/10:55:14	PPALA575	672	REQ	ADDRQ COMMAND JOB=PPLBX194		
yy.032/10:57:19	WIRE	554	PRE	LOGGED OUT		
yy.032/10:58:08	PPAOP530	669	REQ	CANCELED		
yy.032/11:10:25	PPHDS400	699	REQ	DEMANDED		
yy.032/11:10:31	TPC3	476	PRE	DMDNW COMMAND NWK=AR01EDIT		
yy.032/11:11:04	PFHDS400	706	REQ	DEMANDED		
yy.032/11:11:14	UC04	551	PRE	LOGGED OUT		
yy.032/11:34:43	PCHRS305	711	REQ	ADDRQ COMMAND USR=WAIT FOR OK FROM AUDIT		
yy.032/11:35:10	PCHRS305	711	REQ	RELEASED		
yy.032/11:38:14	R616	478	PRE	LOGGED IN		
yy.032/11:40:24	TPC3	687	PRE	LOGGED OUT		
yy.032/11:41:22	PMILA009	718	REQ	DEMANDED		
yy.032/11:52:36	PNCIF519	724	REQ	DEMANDED		
yy.032/11:57:12	N/A	0	REQ	POST COMMAND JOB=PPLBX232		

END OF REPORT

This report contains the following fields:

**JULIAN DATE**

Identifies the Julian date on which the activity occurred.

**HH MM SS**

Identifies the time-of-day at which the activity occurred.

**STATION / JOB NAME**

Identifies one of the following: For workstation network activities, the station name. For CPU jobs, the job name. This shows as an asterisk for CTLG commands.

**CA-7 JOB#**

Identifies the assigned CA WA CA 7 Edition job number. This shows as zero in the following cases:

- CTLG commands
- NXTCYC commands

**CA-7 QUEUE**

Specifies the CA WA CA 7 Edition queue identification:

\*

Indicates CTLG and NXTCYC commands.

**PRE**

Indicates preprocessing queue.

**REQ**

Indicates request queue.

**RDY**

Indicates ready queue.

**ACT**

Indicates active queue.

**POST**

Indicates postprocessing queue.

**PRN**

Indicates prior-run queue.

### ACTION TAKEN

Indicates the command or panel function performed:

- ADDRQ      JOB=*jobname*
- ADDRQ      USR=*text*
- CANCEL
- CANCELED VIA XPOST SCREEN (C OPTION)
- CANCELED VIA XPRE SCREEN (C OPTION)
- CANCELED VIA XQ SCREEN (C OPTION)
- CTLG        DSN=*datasetname*
- DEMAND/DEMANDH
- DIRECT
- DMDNW      NWK=*networkname*
- HOLD/HOLDH
- HELD VIA XPOST SCREEN (H OPTION)
- HELD VIA XPRE SCREEN (H OPTION)
- HELD VIA XQ SCREEN (H OPTION)
- JCLOVRD SET=OFF
- JCLOVRD SET=OFF VIA XQ SCREEN (J OPTION)
- JCLOVRD SET=OFF VIA XRQ SCREEN (X OPTION)
- JCLOVRD SET=ON
- JCLOVRD SET=ON VIA XQ SCREEN (J OPTION)
- LOAD
- LOGGED IN VIA LOGIN, IN OR IO COMMAND
- LOGGED IN VIA XPOST SCREEN (OPTION F OR I)
- LOGGED IN VIA XPRE SCREEN (OPTION F OR I)
- LOGGED OUT VIA LOGOUT, OUT OR IO COMMAND
- LOGGED OUT VIA XPOST SCREEN (O OPTION)
- LOGGED OUT VIA XPRE SCREEN (O OPTION)
- NXTCYC SET=OFF
- NXTCYC SET=ON
- NXTCYC SET=SKP

- POST      DSN=*datasetname*
- POST      NWK=*networkname*
- POST      JOB=*jobname*
- POST      USR=*test*
- RELEASE
- RELEASED VIA XPOST SCREEN (R OPTION)
- RELEASED VIA XPRE SCREEN (R OPTION)
- RELEASED VIA XQ SCREEN (R OPTION)
- RELEASED VIA XRQ SCREEN (X OPTION)
- REMIND
- REQUEUE
- REQUEUED VIA XQ SCREEN (Q OPTION)
- REQUEUED VIA AUTO REQUEUE
- RESTART
- RESTARTED VIA XRST SCREEN
- RSVP
- RSVP VIA XPOST SCREEN (P OPTION)
- RSVP VIA XPRE SCREEN (P OPTION)
- RSVP VIA XQ SCREEN (P OPTION)
- RUN/RUNH
- RUNNW      NWK=*networkname*
- SUBMIT
- SUBTM
- SUBTM POSTED VIA XQ SCREEN (S OPTION)
- SUBTM POSTED VIA XRQ SCREEN (X OPTION)
- UPDATED VIA XUPD SCREEN
- VERIFY SET=OFF
- VERIFY SET=OFF VIA XQ SCREEN (V OPTION)
- VERIFY SET=OFF VIA XRQ SCREEN (X OPTION)
- VERIFY SET=ON

- VERIFY SET=ON VIA XQ SCREEN (V OPTION)
- XRQ POST      DSN=*datasetname*
- XRQ POST      JOB=*jobname*
- XRQ POST      NWK=*networkname*
- XRQ POST      USR=*text*
- XRQ UNPOST    DSN=*datasetname*
- XRQ UNPOST    JOB=*jobname*
- XRQ UNPOST    NWK=*networkname*
- XRQ UNPOST    USR=*text*

\* UNRECOGNIZABLE LOG RECORD ENCOUNTERED appears when some unexpected combination of codes occurs within an extracted X'75' record.

## CA7xx019 Job Scheduling/Completion Activity

The Job Scheduling/Completion Activity report provides summary information about the volumes of CPU jobs being submitted for execution and jobs that completed execution. The report shows whether those jobs that completed execution did so successfully. The log record type from which this report is produced is TYPE=161.

12/11/yy		CA-7 JOB SCHEDULING/COMPLETION ACTIVITY								PAGE 1	
TIME: 13.56.45										REQUEST - CA7xx019	
TIMES	TOTAL SCHEDULED	WITH NO PROBLEMS	TOTAL SUBMITTED	CALENDAR SCHEDULED	TRIGGER SCHEDULED	TOTAL JOBS RUN	NORMAL CA-7 E0JS	ABNORMAL CA-7 E0JS	JOB RESTARTS		
yy.032/08:00 - 08:30	20	20	15	12	6	69	17	0	0		
yy.032/08:30 - 09:00	22	22	27	0	8	110	21	0	0		
yy.032/09:00 - 09:30	40	40	38	6	15	163	40	0	0		
yy.032/09:30 - 10:00	25	24	20	0	16	170	20	0	0		
yy.032/10:00 - 10:30	31	30	24	8	17	171	25	0	0		
yy.032/10:30 - 11:00	30	30	21	0	11	153	16	3	1		
yy.032/11:00 - 11:30	21	21	27	4	6	153	29	1	1		
yy.032/11:30 - 12:00	16	16	20	0	10	103	17	0	0		
END OF REPORT											

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**TOTAL SCHEDULED**

Identifies the number of jobs scheduled into the queue.

**WITH NO PROBLEMS**

Identifies the number of jobs scheduled successfully. Unavailable CA WA CA 7 Edition job numbers, LOCK conditions, and so forth, can prevent successful scheduling.

**TOTAL SUBMITTED**

Identifies the number of jobs submitted to a submit data set or an internal reader.

**CALENDAR SCHEDULED**

Identifies the number of jobs submitted by schedule scan due to a calendar schedule.

**TRIGGER SCHEDULED**

Identifies the number of jobs submitted by schedule scan as a result of a job, network, or data set trigger.

**TOTAL JOBS RUN**

Identifies the total number of jobs for which SMF type 26 purge records were encountered, whether CA WA CA 7 Edition submitted the jobs.

**NORMAL CA-7 EOJS**

Identifies the number of jobs submitted by CA WA CA 7 Edition that completed successfully.

**ABNORMAL CA-7 EOJS**

Identifies the number of jobs submitted by CA WA CA 7 Edition that completed with some type of error (JCL error, abend, or condition code test failure).

**JOB RESTARTS**

Identifies the number of jobs that were resubmitted through the QM.4 panel or RESTART command.

## CA7xx020 Tape Data Set Activity

The Tape Data Set Activity report provides summary information about tape data set activity that jobs submitted by CA WA CA 7 Edition performed. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.22.50		CA-7 TAPE DATA SET ACTIVITY				PAGE 1 REQUEST - CA7xx020
TIMES	TOTAL DATASETS	INPUT DATASETS	OUTPUT DATASETS	GDG DATASETS	EXCPS (000)	
yy.032/08:00 - 08:30	39	13	26	27	1,180	
yy.032/08:30 - 09:00	23	13	10	21	51	
yy.032/09:00 - 09:30	51	20	31	43	40	
yy.032/09:30 - 10:00	191	6	185	134	324	
yy.032/10:00 - 10:30	270	21	249	200	828	
yy.032/10:30 - 11:00	36	9	27	15	116	
yy.032/11:00 - 11:30	38	17	21	35	46	
yy.032/11:30 - 12:00	47	8	39	44	21	
END OF REPORT						

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### TOTAL DATASETS

Identifies the number of data sets accessed.

### INPUT DATASETS

Identifies the number of data sets that were accessed as input.

### OUTPUT DATASETS

Identifies the number of data sets that were accessed as output.

### GDG DATASETS

Identifies the number of data sets that were Generation Data Groups (GDGs).

### EXCPS (000)

Identifies the total number of physical accesses performed (in thousands).

## CA7xx021 DASD Data Set Activity

The DASD Data Set Activity report provides summary information about DASD data set activity that jobs submitted by performed CA WA CA 7 Edition. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.23.13		CA-7 DASD DATA SET ACTIVITY				PAGE 1 REQUEST - CA7xx021
TIMES	TOTAL DATASETS	INPUT DATASETS	OUTPUT DATASETS	GDG DATASETS	EXCPS (000)	
yy.032/08:00 - 08:30	415	343	72	166	154	
yy.032/08:30 - 09:00	625	372	253	272	66	
yy.032/09:00 - 09:30	900	494	406	249	431	
yy.032/09:30 - 10:00	562	254	308	175	768	
yy.032/10:00 - 10:30	483	302	181	154	109	
yy.032/10:30 - 11:00	370	244	126	56	110	
yy.032/11:00 - 11:30	607	390	217	254	94	
yy.032/11:30 - 12:00	485	386	99	195	30	
END OF REPORT						

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### TOTAL DATASETS

Identifies the number of data sets accessed.

### INPUT DATASETS

Identifies the number of data sets that were accessed as input.

### OUTPUT DATASETS

Identifies the number of data sets that were accessed as output.

### GDG DATASETS

Identifies the number of data sets that were Generation Data Groups (GDGs).

### EXCPS (000)

Identifies the total number of physical accesses performed (in thousands).

## CA7xx022 Workstation Network Scheduling Activity

The Workstation Network Scheduling Activity report provides information scheduling activity for workstation networks. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.23.44		CA-7 WORKSTATION NETWORK SCHEDULING ACTIVITY							PAGE 1 REQUEST - CA7xx022	
TIMES	INPUT SCHEDULED	INPUT CANCELED	CANCELED PCT.	SCHEDULED STATIONS	OUTPUT SCHEDULED	OUTPUT CANCELED	CANCELED PCT.	SCHEDULED STATIONS		
yy.032/08:00 - 08:30	6	0	.0	10	0	0	.0	0		
yy.032/08:30 - 09:00	5	0	.0	0	0	0	.0	0		
yy.032/09:00 - 09:30	7	0	.0	11	0	0	.0	0		
yy.032/09:30 - 10:00	5	2	40.0	0	0	0	.0	0		
yy.032/10:00 - 10:30	7	0	.0	18	0	0	.0	0		
yy.032/10:30 - 11:00	7	0	.0	0	4	1	25.0	2		
yy.032/11:00 - 11:30	1	1	100.0	15	0	0	.0	0		
yy.032/11:30 - 12:00	0	0	.0	0	2	0	.0	2		
END OF REPORT										

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**INPUT SCHEDULED**

Identifies the number of input networks that were scheduled into the queue.

**INPUT CANCELED**

Identifies the number of input networks that were canceled.

**CANCELED PCT.**

Identifies the canceled input networks as a percent of number scheduled.

**SCHEDULED STATIONS**

Identifies the number of input workstations that were scheduled.

**OUTPUT SCHEDULED**

Identifies the number of output networks that were scheduled into the queue.

**OUTPUT CANCELED**

Identifies the number of output networks that were canceled.

**CANCELED PCT.**

Identifies the canceled output networks as a percent of number scheduled.

**SCHEDULED STATIONS**

Identifies the number of output workstations that were scheduled.

## CA7xx023 Input Network Performance Profile

The Input Network Performance Profile report provides a profile of on time performance by input networks. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.24.09		CA-7 INPUT NETWORK PERFORMANCE PROFILE						PAGE 1 REQUEST - CA7xx023	
TIMES	INPUT SCHEDULED	INPUT CANCELED	INPUT LATE	SCHEDULED STATIONS	IN ONTIME	OUT ONTIME	IN ONTIME OUT LATE		
yy.032/08.00 - 08.30	6	0	1	10	2	9	0		
yy.032/08.30 - 09.00	5	0	1	0	3	1	0		
yy.032/09.00 - 09.30	7	0	1	11	1	10	0		
yy.032/09.30 - 10.00	5	0	1	0	1	1	0		
yy.032/10.00 - 10.30	7	0	0	18	3	18	0		
yy.032/10.30 - 11.00	7	0	0	0	0	0	0		
yy.032/11.00 - 11.30	1	1	1	15	3	14	0		
yy.032/11.30 - 12.00	0	0	2	0	4	2	0		
END OF REPORT									

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### INPUT SCHEDULED

Identifies the number of input networks scheduled into the queue.

### INPUT CANCELED

Identifies the number of input networks that were canceled.

### INPUT LATE

Identifies the number of input networks that were completed after the scheduled completion time.

### SCHEDULED STATIONS

Identifies the number of input workstations that were scheduled.

### IN ONTIME

Identifies the number of input workstations that were logged in on time.

### OUT ONTIME

Identifies the number of input workstations that were logged out on time.

### IN ONTIME OUT LATE

Identifies the number of input workstations that were logged in on time but were later logged out late.

## CA7xx024 Output Network Performance Profile

The Output Network Performance Profile report provides a profile of the on time performance by output networks. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.24.34		CA-7 OUTPUT NETWORK PERFORMANCE PROFILE						PAGE 1 REQUEST - CA7xx024	
TIMES	OUTPUT SCHEDULED	OUTPUT CANCELED	OUTPUT LATE	SCHEDULED STATIONS	IN ONTIME	OUT ONTIME	IN ONTIME OUT LATE		
yy.032/08:00 - 08:30	0	0	0	0	0	0	0	0	
yy.032/08:30 - 09:00	0	0	0	0	0	0	0	0	
yy.032/09:00 - 09:30	0	0	0	0	0	0	0	0	
yy.032/09:30 - 10:00	0	0	0	0	0	0	0	0	
yy.032/10:00 - 10:30	0	0	0	0	0	0	0	0	
yy.032/10:30 - 11:00	4	1	0	2	2	2	0	0	
yy.032/11:00 - 11:30	0	0	0	0	0	0	0	0	
yy.032/11:30 - 12:00	2	0	0	2	2	1	1	0	
END OF REPORT									

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### OUTPUT SCHEDULED

Identifies the number of output networks that were scheduled into the queue.

### OUTPUT CANCELED

Identifies the number of output networks that were canceled.

### OUTPUT LATE

Identifies the number of output networks that were completed after the scheduled completion time.

### SCHEDULED STATIONS

Identifies the number of output workstations that were scheduled.

### IN ONTIME

Identifies the number of output workstations that were logged in on time.

### OUT ONTIME

Identifies the number of output workstations that were logged out on time.

### IN ONTIME OUT LATE

Identifies the number of output workstations that were logged in on time but were later logged out late.

## CA7xx025 Communications Data Set Activity

The Communications Data Set Activity report provides a profile of activity on the communications data set. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.24.57		CA-7 COMMUNICATIONS DATA SET ACTIVITY								PAGE 1 REQUEST - CA7xx025	
TIMES	READS	WRITES	READS/ WRITES	BUSY DELAYS	BUSY PCT OF R/W	WAIT MINUTES	PCT ACTIVE	JOB SUBMITTED	TOTAL JOBS	ALL RUN	
yy.032/08:00 - 08:30	500	163	3.0	1	.15	29	.83	15	69		
yy.032/08:30 - 09:00	756	294	2.5	5	.47	29	1.88	27	110		
yy.032/09:00 - 09:30	973	402	2.4	6	.43	29	2.43	38	163		
yy.032/09:30 - 10:00	903	372	2.4	4	.31	29	2.05	20	170		
yy.032/10:00 - 10:30	869	360	2.4	3	.24	29	1.93	24	171		
yy.032/10:30 - 11:00	728	278	2.6	1	.09	29	1.27	21	153		
yy.032/11:00 - 11:30	820	325	2.5	4	.34	29	1.54	27	153		
yy.032/11:30 - 12:00	620	226	2.7	0	.00	29	.94	20	103		
END OF REPORT											

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### READS

Identifies the number of read accesses.

### WRITES

Identifies the number of write accesses.

### READS/WRITES

Identifies the ratio of reads and writes.

### BUSY DELAYS

Identifies the number of times accesses were delayed due to the data set already being busy.

### BUSY PCT OF R/W

Identifies the percent of read/write attempts that encountered a busy condition.

### WAIT MINUTES

Identifies the number of minutes the communications subtask was idle.

### PCT ACTIVE

Identifies the percent of the elapsed time that the communications subtask was busy in hundredths of a percent.

**JOBS SUBMITTED**

Identifies the number of jobs submitted.

**TOTAL ALL JOBS RUN**

Identifies the number of job completions that occurred (including jobs that CA WA CA 7 Edition did not submit).

**CA7xx026 Schedule Scan Activity**

The Schedule Scan Activity report provides a profile of activity by the schedule scan task. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 14.25.18		CA-7 SCHEDULE SCAN ACTIVITY						PAGE 1
								REQUEST - CA7xx026
TIMES	TASK WAKEUPS	AVG SECS /WAKEUP	AWAKE PCT	ACTUAL SCANS	AVG SECS /SCAN	SCAN PCT	JOBS SCHEDULED	CALENDAR SCHEDULED
yy.032/08:00 - 08:30	25	1.95	2.74	1	46.97	2.63	20	12
yy.032/08:30 - 09:00	33	.26	.49	0	.00	.00	22	0
yy.032/09:00 - 09:30	51	.93	2.62	1	42.66	2.36	40	6
yy.032/09:30 - 10:00	28	.12	.19	0	.00	.00	25	0
yy.032/10:00 - 10:30	33	1.90	3.50	1	59.65	3.33	31	8
yy.032/10:30 - 11:00	28	.19	.30	0	.00	.00	30	0
yy.032/11:00 - 11:30	34	1.62	3.08	1	51.26	2.85	21	4
yy.032/11:30 - 12:00	32	.11	.20	0	.00	.00	16	0
END OF REPORT								

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**TASK WAKEUPS**

Identifies the number of times the task was activated to perform a scheduling function.

**AVG SECS/WAKEUP**

Identifies the average number of seconds the task was active for an active period.

**AWAKE PCT**

Identifies the percent of elapsed time, in hundredths of a percent, that the task was active.

**ACTUAL SCANS**

Identifies the number of times that the database was scanned to see if the calendar scheduled work was due to be scheduled into the queues.

**AVG SECS/SCAN**

Identifies the average number of seconds that each actual scan consumed.

**SCAN PCT**

Identifies the percent of elapsed time, in hundredths of a percent, that actual scans were active.

**JOBS SCHEDULED**

Identifies the total number of jobs that were scheduled into the queues for calendar schedules, demand work, triggers, and so forth.

**CALENDAR SCHEDULED**

Identifies the number of those jobs that were scheduled into the queues solely based on a calendar schedule.

## CA7xx027 Queue Allocation Usage Profile

The Queue Allocation Usage Profile report provides a profile of allocations for queues, both DASD and main memory, and an indication of the use that was made of the queues. This report can be helpful in tuning performance, queue sizes, and region sizes. The log record type from which this report is produced is TYPE=162.

**Note:** The particular 162 record that this report uses is only produced when CA WA CA 7 Edition is shut down. If the indicated timeframe does not include a CA WA CA 7 Edition shutdown, no data is shown.

12/11/yy		CA-7 QUEUE ALLOCATION USAGE PROFILE										PAGE 1
TIME: 07.36.15												REQUEST - CA7xx027
TIMES/ QUEUES	FROM CYL.	FROM HEAD	THRU CYL.	THRU HEAD	TOTAL TRACKS	USED TRACKS	PCT USED	BYTES (000)	USED (000)	PCT USED	INDEX VALUE	
yy.105/00:52												
QUEUE - SCR	769	0	778	14	150	6	4.0	0	0	.0	N	
QUEUE - ACT	143	0	143	4	5	2	40.0	126	0	.0	A	
QUEUE - DQT	260	0	262	14	45	3	6.6	0	0	.0	N	
QUEUE - PRE	76	5	76	9	5	2	40.0	0	0	.0	N	
QUEUE - PRN	543	0	545	14	45	3	6.6	0	0	.0	A	
QUEUE - PST	306	0	306	4	5	2	40.0	0	0	.0	N	
QUEUE - RDY	85	5	85	9	5	2	40.0	8	0	.0	A	
QUEUE - REQ	289	5	289	14	10	2	20.0	0	0	.0	N	
QUEUE - TRL	847	0	856	14	150	8	5.3	0	0	.0	A	
TOTALS					420	30	7.1	126	0	0.0	DEVTYPE: 3380	
END OF REPORT												

This report contains the following fields:

**TIMES/QUEUES**

Identifies the date and time at which the log record containing this data was written. The information is written at shutdown time. For detail lines, this field also shows:

QUEUE - xxx to indicate the queue ID.

**FROM CYL.**

Identifies the beginning DASD allocation cylinder number.

**FROM HEAD**

Identifies the beginning DASD allocation head number.

**THRU CYL.**

Identifies the ending DASD allocation cylinder number.

**THRU HEAD**

Identifies the ending DASD allocation head number.

**TOTAL TRACKS**

Identifies the total DASD tracks allocated to the queue. This column is totaled at the end of the report.

**USED TRACKS**

Identifies one of the following values:

- For the status queues (REQ RDY, ACT, PRN, PRE, and PST), this value is a high water mark.
- For the SCR, DQT and TRL queues, this value reflects the usage at the time the shutdown was performed.

**PCT USED**

Identifies the percent of allocated DASD tracks required during processing. The overall percent is given in the total line at the end of the report.

**BYTES (000)**

Identifies the thousands of bytes allocated for the resident area when the index value is A. This column is totaled at the end of the report. The column is zero for other index values.

**USED (000)**

Identifies the thousands of bytes of resident area used. This column is totaled at the end of the report.

**PCT USED**

Identifies the percent of resident area that is used in tenths of a percent. The overall percent is given in the total line at the end of the report.

**INDEX VALUE**

Identifies the index value that is specified at initialization time for the queue.

**A**

Indicates entire queue is memory-resident.

**Y**

Indicates only the index is memory-resident.

**N**

Indicates DASD resident only.

DEVTYPE: xxxx appears in this column on the TOTALS line to identify the device type of the queue.

## CA7xx028 Job Termination Posting Dwell Time

The Job Termination Posting Dwell Time report shows the elapsed time between the completion of a job and the time that CA WA CA 7 Edition receives the information and produces a log record of the event. Any delay between these two events represents SMF feedback time. The log record type from which this report is produced is TYPE=005.

Differences between clocks on multiple CPUs can distort the calculations.

12/11/yy		CA-7 JOB TERMINATION POSTING DWELL TIME										PAGE 1	
TIME: 13.09.47												REQUEST - CA7xx028	
JULIAN DATE	LOG HH MM SS TH	EOJ HH MM SS TH	DWELL HH MM SS TH	JOB NAME	SMFID								
yy.032 / 08:01:18:44	- 08:01:07:51	=	:	:10.93	PPCPE025	E09A							
yy.032 / 08:05:06:03	- 08:04:54:58	=	:	:11.45	PPQAC300	E09A							
yy.032 / 08:15:06:91	- 08:14:54:19	=	:	:12.72	PPREL005	E09A							
yy.032 / 08:33:32:33	- 08:33:24:10	=	:	:08.23	PPSCH005	E09A							
yy.032 / 08:35:54:63	- 08:35:51:02	=	:	:03.61	PCWEB062	E09A							
yy.032 / 08:56:08:99	- 08:55:58:49	=	:	:10.50	PPPBI500	E09A							
yy.032 / 09:00:48:70	- 09:00:42:11	=	:	:06.59	PPCPE025	E09A							
yy.032 / 09:02:33:73	- 09:02:24:44	=	:	:09.29	PPCTL005	E09A							
yy.032 / 09:05:40:93	- 09:05:29:12	=	:	:11.81	PPCTL010	E09A							
yy.032 / 09:10:28:98	- 09:10:20:90	=	:	:08.08	PPISC425	E09A							
yy.032 / 09:34:55:58	- 09:34:47:45	=	:	:08.13	PPPEP560	E09A							
yy.032 / 09:55:46:89	- 09:55:33:41	=	:	:13.48	PPSTK345	E09A							
yy.032 / 10:04:14:56	- 10:04:01:34	=	:	:13.22	PPRLB030	E09A							
yy.032 / 10:15:56:97	- 10:15:47:50	=	:	:09.47	PCWEB082	E09A							
yy.032 / 10:18:04:14	- 10:18:01:83	=	:	:02.31	PHPEP100	E09A							
yy.032 / 10:20:51:43	- 10:20:45:45	=	:	:05.98	PPVSA501	E09A							
yy.032 / 10:46:20:51	- 10:46:12:51	=	:	:08.00	PPDMG001	E09A							
yy.032 / 10:50:20:19	- 10:50:14:40	=	:	:05.79	PPTHP574	E09A							
yy.032 / 10:56:49:34	- 10:56:46:87	=	:	:02.47	PPAOP530	E09A							
yy.032 / 10:59:21:28	- 10:59:17:91	=	:	:03.37	PPWTS040	E09A							
yy.032 / 11:04:04:55	- 11:03:55:62	=	:	:08.93	PPACP221	E09A							
yy.032 / 11:11:09:67	- 11:10:58:71	=	:	:10.96	PPAOP530	E09A							
yy.032 / 11:23:07:39	- 11:22:57:23	=	:	:10.16	PPHDS425	E09A							
yy.032 / 11:23:28:87	- 11:23:19:40	=	:	:09.47	PPHDS415	E09A							
yy.032 / 11:27:15:94	- 11:27:13:04	=	:	:02.90	PCWEB089	E09A							
yy.032 / 11:34:45:11	- 11:34:41:15	=	:	:03.96	PFWEB010	E09A							
yy.032 / 11:40:31:68	- 11:40:19:74	=	:	:11.94	PIABI015	E09A							
yy.032 / 11:43:01:39	- 11:42:53:14	=	:	:08.25	PMILA009	E09A							
yy.032 / 11:44:53:48	- 11:44:48:72	=	:	:04.76	PMILA009	E09A							
yy.032 / 11:45:45:90	- 11:45:38:22	=	:	:07.68	PPLBX050	E09A							
yy.032 / 11:59:15:20	- 11:59:06:12	=	:	:09.08	PCPEP010	E09A							

END OF REPORT

This report contains the following fields:

**JULIAN DATE**

Identifies the Julian date on which the log record was written.

**LOG HH MM SS TH**

Identifies the time-of-day at which the log record was written.

**EOJ HH MM SS TH**

Identifies the time-of-day at which job termination occurred.

**DWELL HH MM SS TH**

Identifies the dwell time between the job termination and writing of the log record.

**JOB NAME**

Identifies the name of the CPU job.

**SMFID**

Indicates one of the following values:

- SMF ID of the CPU on which the job executed
- AGJ for agent jobs
- 7UNI for CA7TOUNI jobs
- 7XPJ for XPJOB jobs

## CA7xx029 Job Completion Dwell Time

The Job Completion Dwell Time report shows the elapsed time between the completion of a job and the time that CA WA CA 7 Edition completes processing job completion, triggering, and so forth. Any delay between these two events represents time that is required to trigger in other jobs, post jobs of successors, and so on. The log record type from which this report is produced is TYPE=105.

Differences between clocks on multiple CPUs can distort the calculations.

12/11/yy		CA-7 JOB COMPLETION DWELL TIME							PAGE 1	
TIME: 13.10.19									REQUEST - CA7xx029	
JULIAN	C O M P	E O J	D W E L L	JOB NAME	SMFID	EXECUTION				
DATE	HH MM SS TH	HH MM	HH MM SS TH			TYPE				
yy.032	/ 08:01:18:81	- 08:01 =	: :18.81	PPCPE025	E09A	NORMAL				
yy.032	/ 08:01:20:51	- 08:01 =	: :20.51	PPSHD119	E09A	NORMAL				
yy.032	/ 08:04:14:16	- 08:04 =	: :14.16	PPPER405	E09A	NORMAL				
yy.032	/ 08:17:01:58	- 08:16 =	: 1:01.58	PKFIS593	E09A	NORMAL				
yy.032	/ 08:29:36:99	- 08:29 =	: :36.99	PPRLB715	E09A	NORMAL				
yy.032	/ 09:00:03:51	- 09:00 =	: :03.51	PPUCCACP		NON-EXEC				
yy.032	/ 09:02:56:45	- 09:02 =	: :56.45	PPALA500	E09A	NORMAL				
yy.032	/ 09:13:15:97	- 09:13 =	: :15.97	PPLBX060	E09A	NORMAL				
yy.032	/ 09:25:10:74	- 09:25 =	: :10.74	PCHRS445	E09A	LOAD/EXEC				
yy.032	/ 09:41:45:84	- 09:41 =	: :45.84	PFWEB015	E09A	NORMAL				
yy.032	/ 09:51:53:47	- 09:51 =	: :53.47	PPNND502	E09A	LOAD/EXEC				
yy.032	/ 10:07:54:59	- 10:07 =	: :54.59	PPRCT021	E09A	LOAD/EXEC				
yy.032	/ 10:33:17:85	- 10:33 =	: :17.85	PPPEP551	E09A	NORMAL				
yy.032	/ 10:51:32:11	- 10:51 =	: :32.11	PPFIS310	E09A	NORMAL				
yy.032	/ 10:58:48:05	- 10:58 =	: :48.05	PPVSA088	E09A	NON-EXEC				
yy.032	/ 10:59:10:66	- 10:59 =	: :10.66	PPAOP590	E09A	NORMAL				
yy.032	/ 10:59:21:60	- 10:59 =	: :21.60	PPWTS040	E09A	NORMAL				
yy.032	/ 11:00:58:03	- 11:00 =	: :58.03	PPCPE025	E09A	LOAD ONLY				
yy.032	/ 11:01:19:45	- 11:01 =	: :19.45	PPCPE050	E09A	NORMAL				
yy.032	/ 11:01:50:27	- 11:01 =	: :50.27	PPPAA400	E09A	NORMAL				
yy.032	/ 11:04:04:88	- 11:03 =	: 1:04.88	PPACP221	E09A	LOAD/EXEC				
yy.032	/ 11:11:10:31	- 11:10 =	: 1:10.51	PPAOP530	E09A	NORMAL				
yy.032	/ 11:43:12:90	- 11:43 =	: :12.90	PPPBI020	E09A	NORMAL				
yy.032	/ 11:59:15:59	- 11:59 =	: :15.59	PCPEP010	E09A	NORMAL				

END OF REPORT

This report contains the following fields:

**JULIAN DATE**

Identifies the Julian date on which the log record was written.

**COMP HH MM SS TH**

Identifies the time-of-day at which completion processing was completed.

**EOJ HH MM**

Identifies the time-of-day at which the job terminated. Seconds, tenths, and hundredths are not available here and are assumed to be zeros for dwell calculations.

**DWELL HH MM SS TH**

Identifies the dwell time between the job termination and the completion of job completion processing.

**JOB NAME**

Identifies the name of the CPU job.

**SMFID**

Indicates one of the following values:

- SMF ID of the CPU on which the job executed
- AGJ for agent jobs
- 7UNI for CA7TOUNI jobs
- 7XPJ for XPJOB jobs

**EXECUTION TYPE**

Identifies the type of execution that the job performed.

**NORMAL**

Indicates normal execution.

**NON-EXEC**

Indicates nonexecutable job.

**LOAD/EXEC**

Indicates LOAD and execution. Applies only to CPU jobs.

**LOAD ONLY**

Indicates LOAD without execution. Applies only to CPU jobs.

## CA7xx030 Queue Entry Dwell Time

The Queue Entry Dwell Time report shows the elapsed time between the start and end of placing a job in the request queue. This time is spent building Trailer queue entries for predecessor requirements, JCL images, and so forth. The log record type from which this report is produced is TYPE=105.

12/11/yy		CA-7 QUEUE ENTRY DWELL TIME										PAGE 1	
TIME: 13.10.58												REQUEST - CA7xx030	
JULIAN DATE	OUT HH MM SS TH	IN HH MM SS TH	D W E L L				JOB NAME	EXECUTION TYPE					
yy.032 / 08:02:07:67	-	08:02:06:70	=	:	:00.97	PPWTS017	NORMAL						
yy.032 / 08:06:39:41	-	08:06:38:81	=	:	:00.60	PPDMG105	NON-EXEC						
yy.032 / 08:12:46:29	-	08:12:44:29	=	:	:02.00	PPREL005	NORMAL						
yy.032 / 08:46:19:42	-	08:46:17:32	=	:	:02.10	PPACH032	NORMAL						
yy.032 / 08:49:43:15	-	08:49:41:77	=	:	:01.38	PPECL101	NORMAL						
yy.032 / 08:53:46:21	-	08:53:43:67	=	:	:02.54	PPACH521	LOAD ONLY						
yy.032 / 08:53:53:51	-	08:53:51:91	=	:	:01.60	PPSHD122	NORMAL						
yy.032 / 08:56:48:37	-	08:56:47:05	=	:	:01.32	PPECL101	LOAD/EXEC						
yy.032 / 08:58:36:60	-	08:58:35:40	=	:	:01.20	PCPEP050	NORMAL						
yy.032 / 09:00:15:14	-	09:00:05:78	=	:	:09.36	PPACP211	NORMAL						
yy.032 / 09:01:09:30	-	09:01:07:64	=	:	:01.66	PPLBX060	NORMAL						
yy.032 / 09:01:41:65	-	09:01:39:93	=	:	:01.72	PPRCT020	LOAD/EXEC						
yy.032 / 09:02:19:93	-	09:02:18:59	=	:	:01.34	PPLBX170	NORMAL						
yy.032 / 09:06:44:31	-	09:06:42:82	=	:	:01.49	PCHRS405	NORMAL						
yy.032 / 09:06:55:29	-	09:06:53:63	=	:	:01.66	PPLBX330	NORMAL						
yy.032 / 09:30:02:25	-	09:30:00:81	=	:	:01.44	PPPEP560	NORMAL						
yy.032 / 09:50:12:48	-	09:50:10:86	=	:	:01.62	PPWTS036	NORMAL						
yy.032 / 09:57:49:62	-	09:57:48:23	=	:	:01.39	PPISC510	LOAD/EXEC						
yy.032 / 10:02:12:00	-	10:02:10:65	=	:	:01.35	PCWEB053	NORMAL						
yy.032 / 10:02:13:40	-	10:02:12:36	=	:	:01.04	PCWEB055	NORMAL						
yy.032 / 10:13:44:79	-	10:13:41:25	=	:	:03.54	PMAIS902	NORMAL						
yy.032 / 10:30:28:11	-	10:30:26:31	=	:	:01.80	PPMGK712	NORMAL						
yy.032 / 10:36:55:29	-	10:36:54:13	=	:	:01.16	PPPTS550	NORMAL						
yy.032 / 10:47:17:56	-	10:47:16:39	=	:	:01.17	PKFIS587	LOAD/EXEC						
yy.032 / 10:54:18:82	-	10:54:17:26	=	:	:01.56	PPFIS960	LOAD/EXEC						
yy.032 / 10:55:24:36	-	10:55:23:57	=	:	:00.79	PPALA565	NORMAL						
yy.032 / 10:59:25:34	-	10:59:23:55	=	:	:01.79	PCWEB070	NORMAL						
yy.032 / 11:02:23:08	-	11:02:21:26	=	:	:01.82	PPAOP530	NORMAL						
yy.032 / 11:08:29:71	-	11:08:27:19	=	:	:02.52	PCWEB079	NORMAL						
yy.032 / 11:10:37:23	-	11:10:35:34	=	:	:01.89	PPHDS410	NORMAL						
yy.032 / 11:10:56:76	-	11:10:54:85	=	:	:01.91	PPHDS445	NORMAL						
yy.032 / 11:39:21:54	-	11:39:17:55	=	:	:03.99	PPPBI015	NORMAL						
yy.032 / 11:40:36:82	-	11:40:35:18	=	:	:01.64	PIABI710	NORMAL						
yy.032 / 11:44:01:06	-	11:43:59:51	=	:	:01.55	PPLBX050	NORMAL						

END OF REPORT

This report contains the following fields:

### JULIAN DATE

Identifies the Julian date on which the log record was written.

### OUT HH MM SS TH

Identifies the time-of-day at which the queue entry process was completed.

### IN HH MM SS TH

Identifies the time-of-day at which the queue entry process was started.

**DWELL HH MM SS TH**

Identifies the dwell time to complete the queue entry process.

**JOB NAME**

Identifies the name of the CPU job.

**EXECUTION TYPE**

Identifies the type of execution that the job performed.

**NORMAL**

Indicates normal execution.

**NON-EXEC**

Indicates nonexecutable job.

**LOAD/EXEC**

Indicates LOAD and execution. Applies only to CPU jobs.

**LOAD ONLY**

Indicates LOAD without execution. Applies only to CPU jobs.

## CA7xx031 Transaction Response Time Profile

The Transaction Response Time Profile report provides a profile of response times for CA WA CA 7 Edition transactions. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 12.11.01		CA-7 TRANSACTION RESPONSE TIME PROFILE								PAGE 1 REQUEST - CA7xx031	
TIMES	TOTAL RESPONSES	AVG. SECS.	UNDER 3 SECS	PCT.	UNDER 10 SECS	PCT.	UNDER 60 SECS	PCT.	OVER 60 SECS	PCT.	
yy.032/08:00 - 08:30	83	2.0	76	91.56	77	92.77	83	100.00	0	.00	
yy.032/08:30 - 09:00	173	1.1	158	91.32	169	97.68	173	100.00	0	.00	
yy.032/09:00 - 09:30	236	1.3	220	93.22	229	97.03	236	100.00	0	.00	
yy.032/09:30 - 10:00	97	.9	92	94.84	96	98.96	97	100.00	0	.00	
yy.032/10:00 - 10:30	104	1.1	95	91.34	104	100.00	104	100.00	0	.00	
yy.032/10:30 - 11:00	184	.8	177	96.19	184	100.00	184	100.00	0	.00	
yy.032/11:00 - 11:30	93	1.2	85	91.39	92	98.92	93	100.00	0	.00	
yy.032/11:30 - 12:00	100	1.1	93	93.00	98	98.00	100	100.00	0	.00	
END OF REPORT											

This report contains the following fields:

**TIMES**

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

**TOTAL RESPONSES**

Identifies the total number of transaction responses sent.

**AVG. SECS.**

Identifies the average response time in tenths of seconds.

**UNDER 3 SECS**

Identifies the number of responses taking less than 3 seconds.

**PCT.**

Identifies the percent of responses taking less than 3 seconds, expressed in hundredths of a percent.

**UNDER 10 SECS**

Identifies the number of responses taking less than 10 seconds. Includes those responses in less than 3 seconds.

**PCT.**

Identifies the percent of responses taking less than 10 seconds, expressed in hundredths of a percent.

**UNDER 60 SECS**

Identifies the number of responses taking less than 60 seconds. Includes those responses in less than 3 or less than 10 seconds.

**PCT.**

Identifies the percent of responses taking less than 60 seconds, expressed in hundredths of a percent.

**OVER 60 SECS**

Identifies the number of responses taking over 60 seconds.

**PCT.**

Identifies the percent of responses taking over 60 seconds.

## CA7xx032 /LOG Command Detail

The /LOG Command Detail report provides a list of data that is logged through the /LOG command. The log record type from which this report is produced is TYPE=129.

Comments pertinent to observations by operations personnel during processing can be recorded at the time of occurrence for review by others later. This information can be useful as an audit trail.

12/11/yy TIME: 12.19.30	CA-7 /LOG COMMAND DETAIL	PAGE 1 REQUEST - CA7xx032
-----		
JULIAN		
DATE	HH MM SS	TERM ID OPERATOR DATA
-----		
yy.194 /	12:15:10	VTM001 MASTER HARRY CALLED IN SICK
yy.194 /	12:15:33	VTM001 MASTER ACPBA01W NOT RETAINING MASTER FILE ACROSS STEPS
yy.194 /	12:15:51	VTM001 MASTER COMPUTER ROOM TEMP IS 79
yy.194 /	12:16:15	VTM001 MASTER NEED MORE PAYABLES CHECK STOCK ACP-0036
yy.194 /	12:16:34	VTM001 MASTER 2 TAPES HAD I/O ERRORS AND HAD TO BE CLEANED
yy.194 /	12:16:54	VTM001 MASTER PLEASE CHECK THESE ON THE CA-9 REPORTS
END OF REPORT		

This report contains the following fields:

**JULIAN DATE**

Identifies the Julian date when the data was logged.

**HH MM SS**

Identifies the time-of-day when which the data was logged.

**TERM ID**

Identifies the terminal from which the data was logged.

**OPERATOR**

Identifies the operator ID. If LOGOPID=NO is specified in the SECURITY statement of the initialization file, shows @s instead.

**DATA**

Identifies the data that is logged. Up to 60 positions per command.

## CA7xx033 Trailer Queue Activity Profile

The Trailer Queue Activity Profile report provides a profile of CA WA CA 7 Edition trailer queue activity. Activity is shown in time increments as specified by the SUMM parameter. The log record type from which this report is produced is TYPE=161.

12/11/yy TIME: 09.22.38		CA-7 TRAILER QUEUE ACTIVITY PROFILE						PAGE 1 REQUEST - CA7xx033	
TIMES	ADDS	DELETES	READS	REPLACES	TOTAL ACCESSES	PERCENT READS	AVG READS PER SEC		
yy.184/20:00 - 20:10	845	6	38,067	25	38,943	97.7	63.44		
yy.184/20:10 - 20:20	731	3	22,697	11	23,442	96.8	37.82		
yy.184/20:20 - 20:30	1,060	4	33,303	18	34,385	96.8	55.50		
yy.184/20:30 - 20:40	1,932	4	27,404	35	29,375	93.2	45.67		
yy.184/20:40 - 20:50	474	4	12,197	8	12,683	96.1	20.32		
yy.184/20:50 - 21:00	285	2	6,970	4	7,261	95.9	11.61		
END OF REPORT									

This report contains the following fields:

### TIMES

Identifies the increment of date and time. Each increment spans the number of minutes specified in the SUMM parameter. The FROM parameter sets the first increment start time. The THRU parameter sets the end time of the last increment.

### ADDS

Identifies the number of records added to the queue.

### DELETES

Identifies the number of records deleted from the queue.

### READS

Identifies the number of records read from the queue.

### REPLACES

Identifies the number of records replaced (updated) in the queue.

### TOTAL ACCESSES

Identifies the total number of accesses to the queue.

### PERCENT READS

Identifies the percent of total accesses that were reads.

### AVG READS PER SEC

Identifies the average records read from the queue each second. Calculated as THRU time minus FROM time X 60 divided into READS value.

## CA7xx034 In-Storage Trailer Queue Profile

The In-Storage Trailer Queue Profile report provides information about the processing of the trailer queue data in-storage. The log record type from which this report is produced is Type=162.

12/11/yy TIME: 10.05.33		CA-7 IN-STORAGE TRAILER QUEUE PROFILE					PAGE 1 REQUEST - CA7xx034
TIMES	BYTES (#MEG)	CURR # BLOCKS	MAX # BLOCKS	READ REQUESTS	READ I/O REQUIRED	% READS INCORE	
yy.013/17:04	3	2,198	2,310	473,948	1,376	99.70	
yy.013/17:09	3	2,311	2,323	487,191	1,376	99.71	
yy.013/17:14	3	2,302	2,333	497,795	1,376	99.72	
yy.013/17:19	3	2,251	2,336	510,875	1,377	99.73	
yy.013/17:24	3	2,195	2,336	525,513	1,383	99.73	
yy.013/17:29	3	2,137	2,336	536,855	1,385	99.74	
yy.013/17:34	3	2,204	2,336	550,371	1,392	99.74	
yy.013/17:39	3	2,224	2,336	556,973	1,392	99.75	
yy.013/17:44	3	2,390	2,390	563,397	1,392	99.75	
yy.013/17:49	3	2,538	2,564	572,271	1,394	99.75	
yy.013/17:54	3	2,819	2,829	578,557	1,394	99.75	
yy.013/17:59	3	2,941	3,006	590,361	1,394	99.76	
yy.013/18:04	3	3,024	3,036	604,693	1,395	99.76	
yy.013/18:09	3	3,033	3,051	623,417	1,398	99.77	
yy.013/18:14	4	3,138	3,146	637,624	1,398	99.78	
yy.013/18:19	4	3,122	3,146	645,282	1,398	99.78	
yy.013/18:24	4	3,125	3,146	658,356	1,398	99.78	
yy.013/18:29	4	3,105	3,146	672,957	1,398	99.79	
yy.013/18:34	4	3,299	3,299	699,319	1,399	99.79	
yy.013/18:39	4	3,268	3,323	717,223	1,405	99.80	
yy.013/18:44	4	3,245	3,323	727,309	1,405	99.80	

This report contains the following fields:

**TIMES**

Identifies the date and time when the data was logged.

**BYTES (#MEG)**

Identifies the maximum storage (in megabytes) used by in-storage TRLQ data.

**CURR # BLOCKS**

Identifies the # of 1024-byte blocks currently used by in-storage TRLQ data.

**MAX # BLOCKS**

Identifies the maximum # of 1024-byte blocks used by in-storage TRLQ data (high water mark).

**READ REQUESTS**

Identifies the total # of read requests that the in-storage TRLQ module has processed.

**READ I/O REQUIRED**

Identifies the total # of read requests that could not be satisfied with the in-storage TRLQ module. Because the in-storage TRLQ is not primed, the first read of TRLQ data requires an actual I/O.

**% READS INCORE**

Identifies the percentage of TRLQ reads that were done without actual I/O.

## **CA7xx035 Performance Statistics Information Job Report**

The Performance Statistics Information Job report shows statistical information about the CA WA CA 7 Edition processing that is related to the jobs that are being processed. This report can identify situations that are causing slow job throughput and various factors that affect that throughput. The log record type from which this report is produced is TYPE=161.

The SUMM parameter determines the time increments shown. This report is most meaningful when run for relatively short intervals (15 minutes or less).

Report Descriptions

12/11/yy		CA-7 PERFORMANCE STATISTICS INFORMATION JOB REPORT														PAGE 1			
TIME: 12.32.40																REQUEST - CA7xx035			
STARTS	#	SCAN	SCH	%JOBS	%JOBS	%JOBS	MANT	NOEX	LATE	#TRLR	# JOB	# DSN	#USR	#NWK	#JOB	#CMP	COMP	TIME	CTIME
	SCN	TIME	JOB	SCAN	TRIG	DEMD	JOBS	JOBS	JOBS	RQMTS	RQMTS	RQMTS	RQMT	RQMT	COMP	SCAN	IN	SECS	/ JOB
yy.174 01:30	0	0	26	0.00	0.00	0.00	26	0	1	30	30	0	0	0	30	29	23.37	0.77	
yy.174 01:40	0	0	1	0.00	0.00	0.00	1	0	0	0	0	0	0	0	6	7	3.42	0.57	
yy.174 01:50	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	1	1	1.12	1.12	
yy.174 02:00	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	2	2	1.45	0.72	
yy.174 02:10	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	
yy.174 02:20	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	
yy.174 02:30	0	0	1	0.00	0.00	0.00	1	0	3	0	0	0	0	0	5	5	2.68	0.53	
yy.174 02:40	0	0	60	0.00	0.00	0.00	60	3	3	10	7	0	3	0	30	29	35.23	1.17	
yy.174 02:50	0	0	0	0.00	0.00	0.00	0	0	3	0	0	0	0	0	14	14	2.36	0.16	
yy.174 03:00	0	0	4	0.00	0.00	0.00	4	1	20	8	7	0	1	0	27	28	8.39	0.31	
yy.174 03:10	0	0	2	0.00	0.00	0.00	2	0	2	0	0	0	0	0	6	6	3.89	0.64	
yy.174 03:20	1	1249	29	96.55	3.44	0.00	29	1	0	34	33	0	1	0	6	6	1.72	0.28	
yy.174 03:30	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	
yy.174 03:40	0	0	4	0.00	0.00	0.00	4	0	0	0	0	0	0	0	2	2	1.41	0.70	
yy.174 03:50	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	2	2	0.24	0.12	
yy.174 04:00	0	0	10	0.00	0.00	0.00	10	0	0	14	14	0	0	0	23	23	6.64	0.28	
yy.174 04:10	0	0	0	0.00	0.00	0.00	0	0	1	0	0	0	0	0	4	4	0.46	0.11	
yy.174 04:20	0	0	2	0.00	0.00	0.00	2	0	0	1	1	0	0	0	5	5	1.42	0.28	
yy.174 04:30	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	1	0.12	0.00	
yy.174 04:40	0	0	2	0.00	0.00	0.00	2	0	0	2	2	0	0	0	3	3	0.83	0.27	
yy.174 04:50	0	0	4	0.00	0.00	0.00	4	1	0	4	4	0	0	0	3	4	1.32	0.44	
yy.174 05:00	0	0	2	0.00	0.00	0.00	2	0	0	0	0	0	0	0	9	10	1.98	0.22	
yy.174 05:10	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	
yy.174 05:20	1	837	21	76.19	19.04	4.76	21	0	0	19	19	0	0	0	5	5	1.69	0.33	
yy.174 05:30	0	0	1	0.00	0.00	0.00	1	0	0	0	0	0	0	0	1	1	0.24	0.24	
yy.174 05:40	0	0	50	0.00	0.00	0.00	50	0	0	155	154	0	1	0	7	11	18.57	2.65	
yy.174 05:50	0	0	0	0.00	0.00	0.00	0	0	2	0	0	0	0	0	3	3	1.27	0.42	
yy.174 06:00	0	0	19	0.00	84.21	15.78	19	1	6	11	11	0	0	0	40	37	10.19	0.25	
yy.174 06:10	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	3	3	0.29	0.09	
yy.174 06:20	0	0	0	0.00	0.00	0.00	0	0	1	0	0	0	0	0	1	1	0.13	0.13	
yy.174 06:30	0	0	2	0.00	0.00	0.00	2	0	1	0	0	0	0	0	2	2	1.16	0.58	
yy.174 06:40	0	0	4	0.00	50.00	50.00	4	0	0	2	2	0	0	0	7	7	1.62	0.23	
yy.174 06:50	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	
yy.174 07:00	0	0	10	0.00	30.00	70.00	10	0	1	15	14	0	1	0	10	10	1.97	0.19	
yy.174 07:10	0	0	6	0.00	0.00	0.00	6	0	0	0	0	0	0	0	1	1	0.39	0.39	
yy.174 07:20	1	1030	20	95.00	0.00	5.00	20	0	0	6	5	0	1	0	0	0	0.00	0.00	
yy.174 07:30	0	0	3	0.00	0.00	0.00	3	0	0	0	0	0	0	0	3	3	2.29	0.76	
yy.174 07:40	0	0	3	0.00	0.00	0.00	3	0	0	11	11	0	0	0	2	2	1.23	0.61	
yy.174 07:50	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	2	2	2.82	1.41	
yy.174 08:00	0	0	4	0.00	25.00	75.00	4	0	1	0	0	0	0	0	4	4	3.67	0.91	
yy.174 08:10	0	0	1	0.00	0.00	0.00	1	0	0	0	0	0	0	0	1	1	1.05	1.05	
yy.174 08:20	0	0	2	0.00	0.00	0.00	2	0	0	1	1	0	0	0	2	2	1.29	0.64	
yy.174 08:30	0	0	3	0.00	0.00	0.00	3	0	0	36	36	0	0	0	0	0	0.00	0.00	
yy.174 08:40	0	0	2	0.00	0.00	0.00	2	0	0	1	1	0	0	0	5	5	2.65	0.53	
yy.174 08:50	0	0	2	0.00	0.00	0.00	2	0	0	0	0	0	0	0	0	1	0.00	0.00	
yy.174 09:00	0	0	6	0.00	0.00	0.00	5	0	0	0	0	0	0	0	2	2	0.86	0.43	
yy.174 09:10	0	0	2	0.00	0.00	0.00	2	0	0	1	1	0	0	0	2	2	1.94	0.97	
yy.174 09:20	1	1365	25	0.00	0.00	0.00	25	0	0	5	5	0	0	0	4	4	1.63	0.40	
yy.174 09:30	0	0	1	0.00	0.00	0.00	1	0	0	0	0	0	0	0	0	0	0.00	0.00	
yy.174 09:40	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	1	3	0.68	0.68	
yy.174 09:50	0	0	1	0.00	0.00	0.00	1	0	0	11	11	0	0	0	0	2	1.99	0.00	
yy.174 10:00	0	0	13	0.00	7.69	92.30	13	0	0	19	19	0	0	0	12	13	17.55	1.46	

This report contains the following fields:

**STARTS**

Identifies the starting date and time for this interval. The FROM parameter sets the first time. The THRU parameter sets the last time.

**# SCN**

Identifies the number of times that calendar-scheduled jobs are put in the request queue by schedule scan.

**SCAN TIME**

Identifies the number of seconds that schedule scan runs when placing calendar-scheduled jobs in the request queue.

**SCH JOB**

Identifies the number of jobs scheduled into the request queue.

**%JOBS SCAN**

Identifies the percent of total jobs scheduled that calendar schedules did.

**%JOBS TRIG**

Identifies the percent of total jobs scheduled that were triggered.

**%JOBS DEMD**

Identifies the percent of total jobs scheduled that DEMAND(H), LOAD(H), or RUN(H) commands did.

**MANT JOBS**

Identifies the number of total jobs scheduled that were MAINT=Y on DB.1 (JOB) panel.

**NOEX JOBS**

Identifies the number of total jobs scheduled that were EXEC=N on the job definition panel.

**LATE JOBS**

Identifies the number of total jobs scheduled that were flagged as being late.

**#TRLR RQMTS**

Identifies the number of predecessors that jobs had, when they entered the request queue, that would be stored in the trailer queue.

**# JOB RQMTS**

Identifies the number of job predecessors that were attached to jobs that entered the request queue.

**# DSN RQMTS**

Identifies the number of data set predecessors that were attached to jobs that entered the request queue.

**#USR RQMT**

Identifies the number of user predecessors that were attached to jobs that entered the request queue.

**#NWK RQMT**

Identifies the number of network predecessors that were attached to jobs that entered the request queue.

**#JOB COMP**

Identifies the number of job completions.

**#CMP SCAN**

Identifies the number of wake-ups for the CA WA CA 7 Edition job completion task.

**COMP TIME IN SECS**

Identifies the number of seconds the CA WA CA 7 Edition job completion task was active.

**CTIME / JOB**

Identifies the average number of seconds the CA WA CA 7 Edition job completion task was active per job.

## CA7xx036 Performance Statistics Information System Report

The Performance Statistics Information System report shows statistical information about the CA WA CA 7 Edition processing in several different areas. This report can be used to get an overall view of queue access, communications data set access, CA WA CA 7 Edition system task processing and online transaction performance. The log record type from which this report is produced is TYPE=161.

The SUMM parameter determines the time increments shown. This report is most meaningful when run for time intervals of at least 15 minutes.

12/11/yy TIME: 12.33.19		CA-7 PERFORMANCE STATISTICS INFORMATION SYSTEM REPORT													PAGE 1 REQUEST - CA7xx036		
STARTS	%REQO READS	%RDYO READS	%ACTO READS	%PRNO READS	# Q LCKS	%SUBM TIME	%SMF TIME	%COMP TIME	%LOAD TIME	%SSCN TIME	%PRMP TIME	SCH JOB	# TRLR RQMTS	%COMM BUSY	%DASD LOADS	# TRN	TIME /TRN
yy.174 01:30	96.91	81.49	82.63	99.93	81	5.68	0.41	1.55	0.00	0.00	0.00	27	30	0.00	0.18	202	0.11
yy.174 02:00	98.49	71.87	67.09	66.66	1	0.31	0.08	0.08	0.00	0.00	0.00	0	0	0.00	0.25	1	0.15
yy.174 02:30	93.96	89.39	84.76	92.35	178	7.84	0.48	2.23	0.00	0.01	0.01	61	10	0.00	0.02	307	0.11
yy.174 03:00	95.07	84.66	91.72	66.66	94	4.28	0.46	0.77	0.00	0.69	0.00	35	42	0.00	0.04	3	18.29
yy.174 03:30	93.22	79.16	89.98	99.99	10	0.89	0.06	0.09	0.00	0.00	0.00	4	0	0.00	0.00	117	0.10
yy.174 04:00	95.89	78.44	87.83	66.66	60	4.89	0.30	0.47	0.00	0.00	0.00	12	15	0.00	0.00	0	0.00
yy.174 04:30	96.24	80.18	91.39	99.89	7	2.33	0.06	0.12	0.00	0.00	0.00	6	6	0.00	0.00	18	0.12
yy.174 05:00	91.55	76.44	91.22	66.66	39	2.78	0.11	0.20	0.00	0.46	0.00	23	19	0.00	0.18	42	0.09
yy.174 05:30	92.51	78.58	92.24	99.82	28	9.34	0.17	1.11	0.00	0.00	0.00	51	155	0.00	0.06	202	0.11
yy.174 06:00	89.76	90.66	94.37	66.66	108	4.36	0.25	0.59	0.00	0.00	0.00	19	11	0.00	0.02	6	0.22
yy.174 06:30	90.34	80.53	95.08	66.66	17	1.83	0.07	0.00	0.00	0.00	0.00	6	2	0.00	0.00	4	0.23
yy.174 07:00	81.14	76.25	95.37	99.84	9	4.14	0.10	0.13	0.00	0.58	0.00	36	21	0.00	1.40	159	0.28
yy.174 07:30	95.42	86.30	95.26	99.97	10	2.72	0.23	0.35	0.00	0.00	0.00	6	11	0.00	5.67	381	0.40
yy.174 08:00	94.92	89.69	97.36	77.41	11	3.48	0.28	0.33	0.00	0.01	0.00	7	1	0.00	6.01	307	0.35
yy.174 08:30	95.63	91.63	97.30	99.93	12	2.39	0.21	0.00	0.20	0.00	0.00	7	37	0.00	6.38	422	0.33
yy.174 09:00	90.94	92.27	97.24	76.47	11	2.63	0.41	0.24	0.46	0.77	0.00	33	6	0.49	3.03	235	0.30
yy.174 09:30	98.03	93.22	97.68	99.98	3	1.62	0.16	0.14	0.00	0.01	0.00	2	11	0.00	6.19	435	0.23
yy.174 10:00	96.29	90.89	94.52	99.92	55	9.33	1.97	1.73	0.27	0.03	0.01	16	19	0.14	3.33	326	0.47
yy.174 10:30	96.24	90.92	96.29	99.93	21	5.47	0.45	0.69	0.00	0.02	0.00	13	23	0.25	4.64	202	0.91
yy.174 11:00	95.63	90.70	94.45	99.72	85	6.44	0.79	1.78	0.00	0.81	0.02	25	27	0.18	2.65	162	0.38
yy.174 11:30	95.11	78.08	92.64	69.49	24	3.30	0.48	0.71	0.06	0.02	0.01	9	9	0.00	3.46	214	0.28
yy.174 12:00	95.89	79.53	94.06	75.40	83	14.75	0.75	3.80	0.00	0.07	0.05	58	80	0.00	2.93	256	0.37
yy.174 12:30	96.81	85.71	95.59	73.33	13	3.47	0.17	0.35	0.00	0.00	0.00	9	0	0.00	2.41	200	0.15
yy.174 13:00	94.04	81.10	95.91	99.83	75	11.81	1.01	2.28	0.47	1.05	0.00	75	46	0.13	1.31	413	0.32
yy.174 13:30	98.34	79.46	94.11	99.93	13	3.64	0.57	0.67	0.00	0.01	0.00	7	8	0.00	1.79	238	0.69
yy.174 14:00	97.23	84.22	96.66	99.96	38	7.61	1.37	2.06	0.25	0.03	0.01	19	36	0.00	5.07	252	0.86
yy.174 14:30	97.48	85.88	97.32	86.66	16	3.50	0.29	0.63	0.14	0.01	0.00	20	11	0.00	4.92	417	0.33
yy.174 15:00	95.97	91.55	96.48	75.00	45	9.78	0.91	1.50	0.00	1.68	0.08	66	59	0.37	2.23	250	0.53
yy.174 15:30	98.86	91.18	96.38	99.78	62	12.18	0.71	4.45	0.00	0.02	0.01	16	11	0.00	2.89	215	0.46
yy.174 16:00	98.10	90.07	94.86	99.85	149	7.91	1.76	6.50	1.69	0.17	0.16	21	52	0.00	2.85	176	0.69
yy.174 16:30	97.80	80.12	98.01	99.95	6	2.67	0.23	0.42	0.21	0.01	0.00	3	4	0.00	5.05	342	0.41
yy.174 17:00	94.73	78.40	94.50	87.07	83	8.33	0.67	3.37	0.00	1.63	0.01	88	203	0.18	1.56	299	0.33
yy.174 17:30	98.29	82.41	94.78	75.43	42	5.47	0.38	3.65	0.00	0.03	0.02	27	39	0.20	0.82	44	0.32
yy.174 18:00	97.35	86.13	91.98	70.19	434	19.09	2.79	10.80	0.08	0.31	0.03	123	115	0.08	0.79	138	0.50
yy.174 18:30	97.53	81.55	91.40	88.28	92	7.64	1.03	4.89	0.00	0.04	0.01	27	7	0.00	2.27	163	0.11
yy.174 19:00	95.17	80.60	85.85	72.08	1274	36.35	4.00	22.05	0.04	3.45	0.22	424	258	0.13	0.27	144	0.20
yy.174 19:30	97.15	84.99	89.53	67.11	881	44.19	3.82	20.87	0.00	0.07	0.04	314	72	0.13	0.12	26	0.51
yy.174 20:00	98.35	80.43	91.74	79.19	157	16.86	0.84	6.78	0.45	0.00	0.00	59	25	0.00	0.65	114	0.17
yy.174 20:30	98.45	80.76	89.55	92.76	23	3.33	0.19	1.76	0.00	0.01	0.01	7	1	0.00	2.36	143	0.16
yy.174 21:00	96.03	89.11	83.35	75.44	351	13.58	1.11	6.78	0.05	1.12	0.05	182	190	0.11	0.42	100	0.26
yy.174 21:30	98.09	92.54	86.63	77.23	797	35.27	4.38	14.08	0.09	0.10	0.06	175	198	0.04	0.50	260	0.27
yy.174 22:00	98.22	78.18	88.14	66.76	285	23.51	1.61	6.69	0.13	0.05	0.02	91	105	0.14	0.77	46	0.15
yy.174 22:30	96.99	82.10	89.85	68.34	829	51.06	2.70	14.23	0.08	0.27	0.23	301	210	0.04	0.19	39	0.24
yy.174 23:00	97.02	82.42	90.42	76.92	732	40.88	2.36	9.77	0.16	1.60	0.04	225	299	0.14	0.69	250	0.21
yy.174 23:30	98.28	89.26	91.83	67.88	235	21.68	1.52	7.13	0.00	0.08	0.03	88	71	0.06	0.86	177	0.22
yy.175 00:00	96.87	88.10	89.67	98.65	332	25.43	1.78	6.14	0.00	0.21	0.12	114	126	0.06	0.62	339	0.20
yy.175 00:30	97.15	97.52	91.21	75.82	333	21.25	1.79	7.84	0.00	0.05	0.02	93	137	0.20	0.83	265	0.20
yy.175 01:00	95.20	96.70	88.26	79.41	578	36.16	1.79	10.90	0.00	1.87	0.13	275	542	0.17	0.60	376	0.19
yy.175 01:30	97.89	98.04	91.19	75.00	335	27.40	1.41	7.91	0.00	0.01	0.00	107	133	0.06	0.15	225	0.17
yy.175 02:00	97.46	98.02	90.17	85.53	81	10.08	0.62	2.97	0.00	0.09	0.09	33	20	0.15	0.42	160	0.13
yy.175 02:30	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	0	0.00

This report contains the following fields:

**STARTS**

Identifies the starting date and time for this interval. The FROM parameter sets the first time. The THRU parameter sets the last time.

**%REQQ READS**

Identifies the percentage of total request queue accesses that were reads.

**%RDYQ READS**

Identifies the percentage of total ready queue accesses that were reads.

**%ACTQ READS**

Identifies the percentage of total active queue accesses that were reads.

**%PRNQ READS**

Identifies the percentage of total prior-run queue accesses that were reads.

**# Q LCKS**

Identifies the number of queue lockouts that occurred.

**%SUBM TIME**

Identifies the percent of the CA WA CA 7 Edition active time that the job submission task was active.

**%SMF TIME**

Identifies the percent of the CA WA CA 7 Edition active time that the SMF task was active.

**%COMP TIME**

Identifies the percent of the CA WA CA 7 Edition active time that the job completion task was active.

**%LOAD TIME**

Identifies the percent of the CA WA CA 7 Edition active time that the job load task was active.

**%SSCN TIME**

Identifies the percent of the CA WA CA 7 Edition active time that the schedule scan task was active.

**%PRMP TIME**

Identifies the percent of the CA WA CA 7 Edition active time that the job prompting task was active.

**SCH JOB**

Identifies the number of jobs scheduled.

**# TRLR RQMTS**

Identifies the number of predecessors that jobs had, when they entered the request queue, that would be stored in the trailer queue.

**%COMM BUSY**

Identifies the percentage of busy conditions when accessing the communications data set.

**%DASD LOADS**

Identifies the percentage of actual DASD loads done for CA WA CA 7 Edition application programs.

**# TRN**

Identifies the number of terminal transactions processed.

**TIME/TRN**

Identifies the average number of seconds per terminal transaction processed.

## CA7xx037 Job Completion Table Data

The Job Completion Table Data report lists data about the job completions. The data is broken down by the table that is used to handle job completions. All data are from TYPE=162 log records.

12/11/yy TIME: 16.40.06		CA-7 JOB COMPLETION TABLE DATA											PAGE 1 REQUEST - CA7xx037	
TIMES	# USED	# JBC2 USED	# JBC3 USED	# > 3 USED	POSTS MXNJB	POSTS PRTY	POSTS TIME	# STIMES	# SKIPS	MAX2 TRIG	MAX TAB	# SGETMS		
yy.169/22:46	14,636	4,599	92	23	103	0	44	1,019	1,190	64	5	116		
yy.169/22:51	14,727	4,625	92	23	103	0	44	1,021	1,190	64	5	116		
yy.169/22:56	14,813	4,654	92	23	103	0	45	1,030	1,196	64	5	116		
yy.169/23:01	14,860	4,663	94	35	123	0	45	1,050	1,272	64	18	136		
yy.169/23:06	14,884	4,663	94	35	144	0	48	1,075	1,373	64	26	160		
yy.169/23:11	14,950	4,670	95	35	154	0	51	1,086	1,414	64	28	172		
yy.169/23:16	15,063	4,678	96	35	155	0	52	1,091	1,423	64	28	173		
yy.169/23:21	15,315	4,732	99	35	158	0	52	1,101	1,436	64	28	176		
yy.169/23:26	15,534	4,804	103	35	162	0	52	1,118	1,474	64	28	180		
yy.169/23:31	15,664	4,845	106	35	165	0	52	1,129	1,497	64	28	183		
yy.169/23:36	15,732	4,873	106	35	165	0	52	1,134	1,502	64	28	183		
yy.169/23:41	15,777	4,888	106	35	165	0	52	1,134	1,502	64	28	183		
yy.169/23:46	15,821	4,903	108	36	168	0	52	1,140	1,522	64	28	186		
yy.169/23:51	15,924	4,934	109	39	172	0	53	1,149	1,542	64	28	190		
yy.169/23:56	15,995	4,970	111	39	174	0	53	1,151	1,551	64	28	192		
END OF REPORT														

This report contains the following fields:

**TIMES**

Identifies the Julian date and the time-of-day on which the data was logged.

**# USED**

Identifies the number of times a job completion table was used.

**# JBC2 USED**

Identifies the number of times a second job completion table was used.

**# JBC3 USED**

Identifies the number of times a third job completion table was used.

**# > 3 USED**

Identifies the number of times a fourth or greater job completion table was used.

**POSTS MXNJB**

Identifies the number of times a post of completion processing was done because the maximum value was reached. If table 1 or 2 is available, no waiting is done. Otherwise, completion processing is posted when the threshold of 30 is reached.

**POSTS PRTY**

Same as # JBC3 USED except completion processing is posted when the priority of a completed job is at least the threshold of 255.

**POSTS TIME**

Same as # JBC3 USED except completion processing is posted when a time of 11 seconds has elapsed.

**# STIMES**

Identifies the number of times completion processing waited for a time posting.

**# SKIPS**

Identifies the number of times completion processing was posted and no action was taken (no threshold value was reached).

**MAX2 TRIG**

Identifies the max number of triggers done by one job.

**MAX TAB**

Identifies the max number of triggers done by one job in the last 5 minutes.

**# SGETMS**

Identifies the total number of times storage was obtained for a completion table.

## CA7xx038 JCL Data Set Access Time

The JCL Data Set Access Time report lists data about how long it takes to access members in CA WA CA 7 Edition JCL data sets. The report denotes each member that is accessed.

All data is from TYPE=164 log records, which are typically not produced. To generate type 164 log records, specify JCLDSST=YES on the OPTIONS statement in the initialization file.

**Note:** For more information about the OPTIONS statement, see the *Systems Programming Guide*.

Using JCLDSST=YES can create many extra log records and can affect the overall CA WA CA 7 Edition performance. Thus, use this option with caution.

01/03/yy		CA-7 JCL DATA SET ACCESS TIME										PAGE 1	
TIME: 13.25.36												REQUEST - CA7xx038	
JULIAN DATE	TIME HH MM SS TH	JCL INDEX	MEMBER NAME	# OF RECS	SEC	LOC	OBT	ALLOC	OPEN	FIND	CLOSE	DALOC	
yy.060 / 12:15:58.06	-	200	CA07CLEN	000067	00.00	00.00*	00.00	00.00	00.01	00.00	00.01	00.00*	
yy.060 / 12:18:35.87	-	200	CA07XX01	000063	00.00	00.00*	00.01	00.01	00.01	00.00	00.01	00.00*	
yy.060 / 12:18:41.96	-	200	CA07XX08	000041	00.00	00.00*	00.00	00.01	00.00	00.00	00.00	00.00*	
yy.060 / 12:18:49.95	-	200	CA07XX03	000023	00.00	00.00*	00.04	00.05	00.00	00.00	00.00	00.00*	
yy.060 / 12:18:49.96	-	200	CA07XX10	000028	00.00*	00.00*	00.01	00.05	00.01	00.00	00.01	00.00*	
yy.060 / 12:18:50.63	-	200	CA07XX04	000023	00.00*	00.00*	00.01	00.27	00.12	00.00	00.01	00.00*	
yy.060 / 12:19:00.29	-	200	CA07XX05	000028	00.00*	00.00*	00.05	00.01	00.00	00.00	00.31	00.00*	
yy.060 / 12:19:00.43	-	200	CA07XX06	000025	00.00*	00.00*	00.31	00.02	00.01	00.00	00.10	00.00*	

END OF REPORT

This report contains the following fields:

### JULIAN DATE

Identifies the Julian date on which the data was logged.

### TIME HH MM SS

Identifies the time-of-day on which the data was logged.

### JCL INDEX

Identifies the index number of the JCL data set accessed.

### MEMBER NAME

Identifies the member name in the JCL data set.

### # OF RECS

Identifies the number of records processed in the member.

### SEC

Identifies the time (*ss.th*) spent determining whether security would allow access to the JCL data set.

**LOC**

Identifies the time (*ss.th*) spent locating the volume on which the JCL data set resides.

**OBT**

Identifies the time (*ss.th*) spent obtaining information from the data set control block.

**ALLOC**

Identifies the time (*ss.th*) spent dynamically allocating the JCL data set.

**OPEN**

Identifies the time (*ss.th*) spent opening the JCL data set.

**FIND**

Identifies the time (*ss.th*) spent finding the member in the JCL data set.

**CLOSE**

Identifies the time (*ss.th*) spent closing the JCL data set.

**DALOC**

Identifies the time (*ss.th*) spent dynamically deallocating the JCL data set.

\*

An asterisk after any column denotes that function was not performed. Therefore, the time is 00.00. All times are not rounded. They are truncated at hundredths of a second.

# Chapter 6: SQL Reporting

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This section contains the following topics:

[Overview](#) (see page 377)

[SQL Report Sample JCL](#) (see page 378)

[Reports Available](#) (see page 378)

[User-Defined Reports](#) (see page 379)

[Report Descriptions](#) (see page 379)

## Overview

A CA Datacom/AD database now maintains workload definitions and queues. The product includes SQL for creating a standard set of reports from the database.

The CA Datacom/AD DBSQLPR utility generates the SQL reports. The following topics contain information about available reports and how to generate them.

When using SQL for reports, the dates are handled as follows:

- Low date:
  - Database: Jan 1, 1970
  - CA 7 Displays: 00000
  - User enters 70001, which is converted to 00000
- High date:
  - Database: Dec 31, 9999
  - CA 7 Displays: 99999
- Pivot date:
  - Database: Dec 31, 2069
  - CA 7 Displays: 69365
- Other date information:
  - 99365 = Dec 31, 1999 (because it is not all 9s).
  - Dates < 70000 becomes 20xx (no changes here).
  - Dates >= 70000 becomes 19xx (no changes here).

## SQL Report Sample JCL

The JCL required to execute the DBSQLPR utility and to produce reports from the database is in member AL2SQL in the CAL2JCL library.

Use the REPORT keyword on the EXEC SQLRPT statement to specify a member name (report name) from the [Reports Available](#) (see page 378).

## Reports Available

SQL is provided to generate the reports that are listed in the table. The SQL for each report resides in the specified member of library CAL2SQL. The desired report name, or member name, is specified in the [JCL](#) (see page 378) that executes the DBSQLPR utility.

**Note:** Each of these members contains a statement that you must change to reflect the logical database name from which to pull the data. The name DB represents this logical database name to SQL. Often you see the following term, which is sometimes prefixed with characters followed by a period:

```
DB = 'LOGICAL_DATABASE'
```

Change the LOGICAL\_DATABASE to the name representing the CA 7 instance.

Report	Member	r11.3 Report name
Program-Job Cross Reference	AL2SXRF1	SASSBK00: SASSXREF-01
DSN-Program Cross Reference	AL2SXRF2	SASSBK00: SASSXREF-02
Node-Job Cross Reference	AL2SXRF3	SASSBK00: SASSXREF-03
Datasets with No Associated Jobs	AL2SDSNJ	CA7xx701 *
Networks with No Associated Jobs	AL2SNWNJ	CA7xx702 *
System Prose	AL2SSYPR	CA7xx703 *
Job Prose	AL2SJBPR	CA7xx704 *
Dataset Prose	AL2SDSPR	CA7xx705 *
Network Prose	AL2SNWPR	CA7xx706 *
User Prose	AL2SUSPR	CA7xx707 *
DD Prose	AL2SDDPR	CA7xx708 *

Report	Member	r11.3 Report name
CPU Job Schedules with Current SCHDMOD	AL2SJSCH	CA7xx709 *
Network Schedules with Current SCHDMOD	AL2SNSCH	CA7xx710 *
Job to ARFSET Cross Reference	AL2SARFX	CA7xx711 *

\* xx represents ER for EARL reports and EZ for Easytrieve reports.

These new reports do not replace existing reports.

Report	Member
Display the last three executions of a network. Replaces the LCTLG,DSN=NW.xxxxxxxx command	AL2SNWO
Display data set names using a partially qualified DSN	AL2DSN

## User-Defined Reports

The predefined SQL reports that are provided with the product provide examples of how to generate SQL reports from the database. The SQL is stored in library CAL2SQL.

The SQL members that are distributed with the product can serve as patterns to create customized SQL reports. Do not modify these members, but you can copy them to another library for editing.

Member AL2SQLD describes the database tables and is distributed in library CAL2OPTN.

A comma-separated values (CSV) file can also be generated for input into other reporting or spreadsheet programs. You can generate a CSV file instead of a report with the following actions:

- Specify OPT=C on the EXEC SQLRPT JCL statement.
- Override the STDOUT DD statement to specify a data set name.

**Note:** For more information about generating CSV files, see the SQL Report Sample JCL.

## Report Descriptions

These topics discuss each of the predefined SQL reports that are distributed with the product.

## Program-Job Cross Reference – AL2SXRF1

The Program-Job Cross-Reference report provides the name of every program executed in CA WA CA 7 Edition controlled jobs and the name of every job in the database that includes the program. The report is helpful when you want to change or delete a program by ensuring that all references to the program can be considered.

PROGRAM	JOB	STEP	STEP#	PROCSTEP	NUM_RUNS	LAST_DATE	LAST_TIME	SYSTEM
ABEND806	ABENDNOB	JS30	3		1	19yy-07-25	00.14.25	MISC
ABEND806	ABEND406	JS10	3		0	19yy-01-01	00.00.00	ABC2
ABEND806	ABEND806	JS10	3		48	20yy-03-07	17.41.55	ABC
ABEND806	ABEND807	JS10	3		3	20yy-03-07	17.36.59	MISC
ABEND806	ABEND808	JS10	3		0	19yy-01-01	00.00.00	MISC
ABEND806	BADFLOW2	JS10	3		5	20yy-05-10	10.47.04	FLowsys
ABEND806	BDARF01	JS20	2		4	20yy-01-03	14.47.16	MISC
ABEND806	BDS806	JS20	1		5	19yy-09-10	00.15.44	MISC
BBWAIT	ABEND807	JS20	2		3	20yy-03-07	17.36.59	MISC
BBWAIT	BDFLOW1	JS20	2		11	20yy-06-20	10.03.23	CPM2
BBWAIT	BDFLOW2	JS20	2		9	20yy-06-20	10.08.31	CPM2

The report contains the following fields:

**PROGRAM**

Indicates the name of the program executed in the job and step.

**JOB**

Indicates the name of the job that executes the program.

**STEP**

Indicates the name of the step that executes the program.

**STEP#**

Indicates the number of the step that executes the program.

**PROCSTEP**

Indicates the name of the step in a procedure when the program was executed from within a procedure.

**NUM\_RUNS**

Indicates the number of times this job has successfully executed.

**LAST\_DATE**

Indicates the date that this job last successfully executed.

**LAST\_TIME**

Indicates the time that this job last successfully executed.

**SYSTEM**

Indicates the system name that is associated with the job on the job definition panel.

## DSN-Program Cross Reference – AL2SXRF2

The DSN-Program Cross-Reference report provides the name of each data set defined in the database and itemizes the job steps that reference the data sets. The report provides a quick reference for determining every JCL reference to a production data set.

Fields displaying an asterisk indicate that the value is null for that data set, that is, job information does not exist for the data set.

DATASET	DATASET#	DSORG	DASD	GDG	PROGRAM	JOB	STEP	DDNAME	DISP
A. TEST	14			*	*	*	*	*	*
A. TEST5	18	PS	Y	*	*	*	*	*	*
APC.CSCRE.PCA7.R110.P2.LOADLIB	188	Y	N	L2TSTPGM	BHENA01	STEP1	STEPLIB	S	
APC.CSCRE.PCA7.R110.P2.LOADLIB	188	Y	N	L2TSTPGM	BHENA02	STEP1	STEPLIB	S	
APC.DEVCA7.TS04.LOADLIB	40	Y	N	CA7\$SUB	BD04LV1B	JS10		S	
APC.DEVCA7.TS04.LOADLIB	40	Y	N	CA7\$SUB	BD04LV1B	JS10	PROFILE	S	
APC.DEVCA7.TS04.LOADLIB	40	Y	N	CA7\$SUB	BD04LV1B	JS10	SNAP	?	
APC.DEVCA7.TS04.LOADLIB	40	Y	N	CA7\$SUB	BD04LV1B	JS10	STEPLIB	S	

The report contains the following fields:

### DATASET

Indicates the data set name that the program references.

### DATASET#

Indicates the internal number that is associated with the data set name by CA WA CA 7 Edition.

### DSORG

Indicates the organization of data set.

### DASD

Indicates whether the data set is on DASD (Y or N).

### PROGRAM

Indicates the name of the program that references the data set.

### JOB

Indicates the name of the job that executes the program.

### STEP

Indicates the name of the step that executes the program.

### DDNAME

Indicates the ddname that references the data set.

### DISP

Indicates the initial disposition that is specified for the data set in job step.

## Node-Job Cross Reference – AL2SXFR3

The Node-Job Cross-Reference report provides a cross-reference of XPJOBS and execution nodes. For each job, there is count of how many times the job ran at that node, with the last date and time it ran. This report is helpful in determining node activity and also how many different jobs run at a particular node.

XPSI_NODE	JOB	NUM_RUNS	LAST_DATE	LAST_TIME	SYSTEM
AAY	BBXP01	0	20yy-01-03	03.52.48	
AAY	AVFDS	2	20yy-10-31	03.39.21	
ABC	EQUAL2	0	20yy-11-29	00.44.35	
ABC	XTERRA1	0	20yy-09-15	04.03.55	
A31SENF	BZXPSELF	0	20yy-09-23	03.09.16	X322
A31SENF	DEM0010	0	20yy-03-31	04.22.24	DEMOSYS
B	SEVZDTE5	0	20yy-11-11	01.42.01	

The report contains the following fields:

**PROGRAM**

Indicates the name of the program executed in the job or step.

**JOB**

Indicates the name of the job that executes the program.

**STEP**

Indicates the name of the step that executes the program.

**STEP#**

Indicates the number of the step that executes the program.

**PROCSTEP**

Indicates the name of the step within a procedure when the program was executed within a procedure.

**NUM\_RUNS**

Indicates the number of times this job has successfully executed.

**LAST\_DATE**

Indicates the date that this job last successfully executed.

**LAST\_TIME**

Indicates the time that this job last successfully executed.

**SYSTEM**

Indicates the system name that is associated with the job on the job definition panel.

## Datasets with No Associated Jobs – AL2SDSNJ

The Data Sets with No Associated Jobs report provides an inventory listing of data sets that are defined in the database but have no jobs in the database that create or use them.

The report identifies dormant data set definitions that you can delete. The report also shows data sets that are defined recently. Take care not to delete data sets that are needed but whose CPU jobs are not yet loaded into the database.

DATASET#	LAST_UPDATE	DATASET
37	20yy-10-20	XX.DATASET
120	20yy-05-24	D402.EDIT.INPUT.INPUT2
126	20yy-05-24	D402.EDIT.INPUT.INPUT
189	20yy-09-23	APCDAL.L2110.FULL.LOADLIB
285	20yy-05-10	TESTDATASET

The report contains the following fields:

### DATASET#

Indicates the internal number that is associated with the data set name by CA WA CA 7 Edition.

### LAST\_UPDATE

Indicates the date that the data set was last updated.

### DATASET

Indicates the data set name.

## Networks with No Associated Jobs – AL2SNWNJ

The Networks with No Associated Jobs report provides an inventory listing of networks. The networks are defined in the database but have no jobs in the database to use them.

The report identifies dormant network definitions that you can delete. The report also shows networks that are recently defined. Take care not to delete networks that are needed but whose CPU jobs are not yet loaded into the database.

NETWORK	LAST_UPDATE	STATION01	STATION02	STATION03	STATION04	STATION05	STATION06	STATION07	STATION08	STATION09
DELTNO	19yy-03-24	DELTNO1	ELTN02							
EROCINW	20yy-08-17	BBSTA01	BBSTA02							
EROCSTO	20yy-08-29	VTERM001	VTERM002							
FRENTOUT	20yy-08-31	STAT1OUT	STAT2OUT							
NETTEST1	20yy-01-31	ABC	DEF							
NETTEST4	20yy-02-05	STAT1	STAT2							
TESTINT1	19yy-04-24	MYISTA1	MYISTA2							
TESTONT1	19yy-04-24	MYOSTA1	MYOSTA2	MYOSTA3						

The report contains the following fields:

**NETWORK**

Indicates the network name.

**LAST\_UPDATE**

Indicates the date that the network definition was last updated.

**STATION01-09**

Indicates the names of the workstations that are defined to the network.

## System Prose – AL2SSYPR

The System Prose report provides a roster of prose members with a type of SYSTEM.

SYSTEM	PROSE#	LINK DESCRIPTION
ACCT350	329	0 ALL JOBS ARE FOR ACCOUNT 350
BALKE03	175	0
BALTEST5	819	0 TEST
BARKA	188	0
BB	33	75 PAYROLL FOR ACCOUNTING DEPT
BDTSTNMK	16	0 DESCRIPTION WITH NEW PROSE

The report contains the following fields:

**SYSTEM**

Indicates the system for which prose is defined.

**PROSE#**

Indicates the internal number that is associated with the prose by CA WA CA 7 Edition.

**LINK**

Indicates the names of the workstations that are defined to the network.

**DESCRIPTION**

Indicates a description of the system.

## Job Prose – AL2SJBPR

The Job Prose report provides a roster of prose members with a type of JOB.

JOB	PROSE#	LINK DESCRIPTION
\$\$TIME	870	2 JOB TO PROCESS TIMECARDS
\$\$TIME2	895	0
\$JOBS	890	123
\$JOB1	507	0
\$MYTEST	876	222 JOHN'S TEST JOB

The report contains the following fields:

### JOB

Indicates the job for which prose is defined.

### PROSE#

Indicates the internal number that is associated with this prose member by CA WA CA 7 Edition.

### LINK

Indicates the number of another prose member that is linked to this prose member.

### DESCRIPTION

Indicates the description of the job.

## Dataset Prose – AL2SDSPR

The Dataset Prose report provides a roster of prose members with a prose type of DATASET.

DATASET	PROSE#	LINK DESCRIPTION
A.TEST	60	5 Test one input
A.TEST5	61	0
APCDAL.L232.U7TEST02	57	0 AS
D402.EDIT.INPUT.INPUT2	54	0
D402S22.OPDS	53	1
D4023	18	0
DFDFDFDFDFDFDFDFDF	66	0
DUXX01.BIGTRIG3	98	0
DUXX01.TOOLS.LODLIB	58	0 Tools for ASG

The report contains the following fields:

**DATASET**

Indicates the data set for which prose is defined.

**PROSE#**

Indicates the internal number that is associated with this prose member by CA WA CA 7 Edition.

**LINK**

Indicates the number of another prose member that is linked to this prose member.

**DESCRIPTION**

Indicates a description of the data set.

## Network Prose – AL2SNWPR

The Network Prose report provides a roster of prose members with a prose type of NETWORK.

NETWORK	PROSE#	LINK	DESCRIPTION
NET260	870	12	USER TESTS
NET3992	895	0	SYSTEM TEST
MSMNET	890	601	
MAY225	507	10	IS GROUP 225
SERONT	876	0	SER PROD NETWORK

The report contains the following fields:

**NETWORK**

Indicates the network for which prose is defined.

**PROSE#**

Indicates the internal number that is associated with this prose member by CA WA CA 7 Edition.

**LINK**

Indicates the number of another prose member that is linked to this prose member.

**DESCRIPTION**

Indicates the description of the network.

## Roster for Prose Type: User – AL2SUSPR

The User Prose report provides a roster of prose members with a prose type of USER.

PROSE_USER	PROSE#	LINK DESCRIPTION
XPSINFO.#SAM	85	266 UEJM-XREF-INFO (A)
XPSINFO.ACTAA100	671	0 UEJM-XREF-INFO
XPSINFO.ACTAA101	673	0 UEJM-XREF-INFO
XPSINFO.ACTAA102	672	0 TEST CASE
XPSINFO.AG7AIX01	20	50 UEJM-XREF-INFO
XPSINFO.ARUNXPS2	573	0 UEJM-XREF-INFO
XPSINFO.ARVTEST1	472	0 UEJM-XREF-INFO (T)
XPSINFO.A1	397	0 A1 SYSTEMS

The report contains the following fields:

### PROSE\_USER

Indicates the user for which prose is defined.

### PROSE#

Indicates the internal number that is associated with this prose member.

### LINK

Indicates the number of another prose member that is linked to this prose member.

### DESCRIPTION

Indicates a description of the user.

## Roster for Prose Type: DD – AL2SDDPR

The DD Prose Roster for Prose Type: DD report provides a roster of prose members with a prose type of DD.

JOB	STEP	DD	PROSE#	LINK DESCRIPTION
COMJOB2	STEP2	YYYYY	741	0 XXXXX

The report contains the following fields:

**DD**

Indicates a data set for which prose is defined.

**PROSE#**

Indicates an internal number that is associated with this prose member.

**LINK**

Indicates the number of another prose member that is linked to this prose member.

**DESCRIPTION**

Indicates a description of the data set.

## CPU Job Schedules with Current SCHDMOD – AL2SJSCH

The CPU Job Schedules with Current SCHDMOD report provides a list of CPU job schedule members. These members have an active modification that is made through the DB.2.7 panel.

JOB	SCHEDULE	CALENDAR_ID
\$\$\$A01TON	JAN-DEC	AB
\$\$\$A02TON	JAN-DEC	XX
DAVVD01	JAN-DEC	8A
FBANK	JULY-JUN	AB
FAECOBRA	JAN-DEC	AB
FRTCBB1	JAN-DEC	AB

The report contains the following fields:

**JOB**

Indicates the job that currently has a modification to its schedule.

**SCHEDULE**

Indicates a 12 month period for which the schedule is defined.

**CALENDAR\_ID**

Indicates a two-character calendar suffix.

## Network Schedules with Current SCHDMOD – AL2SNSCH

The Network Schedules with Current SCHDMOD report provides a list of input network schedule members with an active modification that is made through the DB.2.7 panel.

Network	SCHEDULE	CALENDAR_ID
AANET1	JULY-JUN	AB
BTZONE	JAN-DEC	Y1
DAWNETW	JAN-DEC	Y2
STOT123	JAN-DEC	PE
STOR866	JULY-JUN	PE
VNET	JAN-DEC	PE

The report contains the following fields:

### **NETWORK**

Indicates the network that currently has a modification to its schedule.

### **SCHEDULE**

Indicates a 12 month period for which the schedule is defined.

### **CALENDAR\_ID**

Indicates a two-character calendar suffix.

## Job to ARFSET Cross Reference – AL2SARFX

The Jobname ARFSET Cross-Reference report provides a list of job names that have had an ARFSET associated with them through the AR 3.1 panel.