



IBM Software Group

CICS Performance Analyzer for z/OS

What's New in CICS PA Release 4



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Preface

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Presentation Overview

- CICS PA Release 4 Highlights
- CICS PA Overview
- CICS PA Release 4 Content
- Summary



Why is it important to invest in performance management?

- Business processes rely on IT infrastructure for availability and performance
- Risk of missing service levels is increasing
 - ▶ Environment increasingly complex to manage due to technology and workload changes
- Capacity planning is critical to meet peak performance levels required to support e-business evolution
- Rising costs of managing the zSeries investment
 - ▶ Systems Management software cost increases disproportionate to MIPS or workload volume growth rates
- Critical Skills shortages
 - ▶ Skill requirements are diversifying within a constrained budget



In the increasingly complex IT environments, risk of missing SLAs is increasing. Missed SLAs equal lost revenue and customer dissatisfaction.

Performance and Availability Management Solutions for CICS

Managing system performance and plan capacity for the future

OMEGAMON XE for CICS

- provides a real-time and historical performance management, monitoring and troubleshooting solution for CICS
- helps you to detect performance problems early, identify cause and change system and resource parameters to avoid problems

CICS Performance Analyzer

- Provides ongoing system management and measurement reports on all aspects of CICS application performance
- Enables deep-dive CICS performance analysis and understanding of usage trends
- Aids capacity planning and tuning
- Helps quickly identify and eliminate trends leading to online performance problems

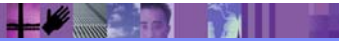
•Plan capacity to reduce MIPS cost

•Proactively analyze performance trends to reduce down time and increase customer satisfaction

•Reduce cost of outages

•Reduce risk of missing the service level commitments

•Reduce time and cost of managing system performance and availability



For many customers, CICS is the backbone of the enterprise. Run-time system performance optimization, performance problem-determination and capacity planning are critical to meet the peak performance levels to support an on demand business evolution. IBM CICS Performance Analyzer for z/OS is a CICS system performance reporting and analysis solution built to address

the needs of those involved in CICS performance analysis, CICS systems tuning and capacity planning. It helps build, manage and deploy complex CICS applications, while maintaining high levels of performance.

CICS Performance Analyzer provides a high level of detail and flexibility to help you easily find new ways to improve CICS system performance, lower maintenance costs and strategically plan IT investments. CICS Performance Analyzer provides a wide range of systems management and measurement reports about all aspects of CICS systems. These reports can be easily tailored

to your specific requirements.

The tool's robust reporting capabilities and flexible historical database facilities make it an essential tool to help in trend analysis and capacity planning, as well as to help ensure optimal resource utilization within your CICS systems. CICS Performance Analyzer complements online monitoring tools, such as the Omegamon suite of products, because it can help you quickly respond to online performance issues by drilling down into CICS performance data to identify the cause of the problem. CICS

Performance Analyzer also complements the enterprise-wide historical performance capabilities of IBM Tivoli® Decision Support for z/OS.

CICS Performance Analyzer can help you:

- Reduce the cost of tuning and capacity-planning analysis.
- Take a proactive approach to CICS systems tuning.
- Provide detailed performance bottleneck analysis.
- Uncover trends leading to reduced CICS performance or even outages.
- Enable capacity planning for optimal performance.
- Identify the potential to improve application design and review performance before applications go into production.

CICS PA Release 4 Highlights

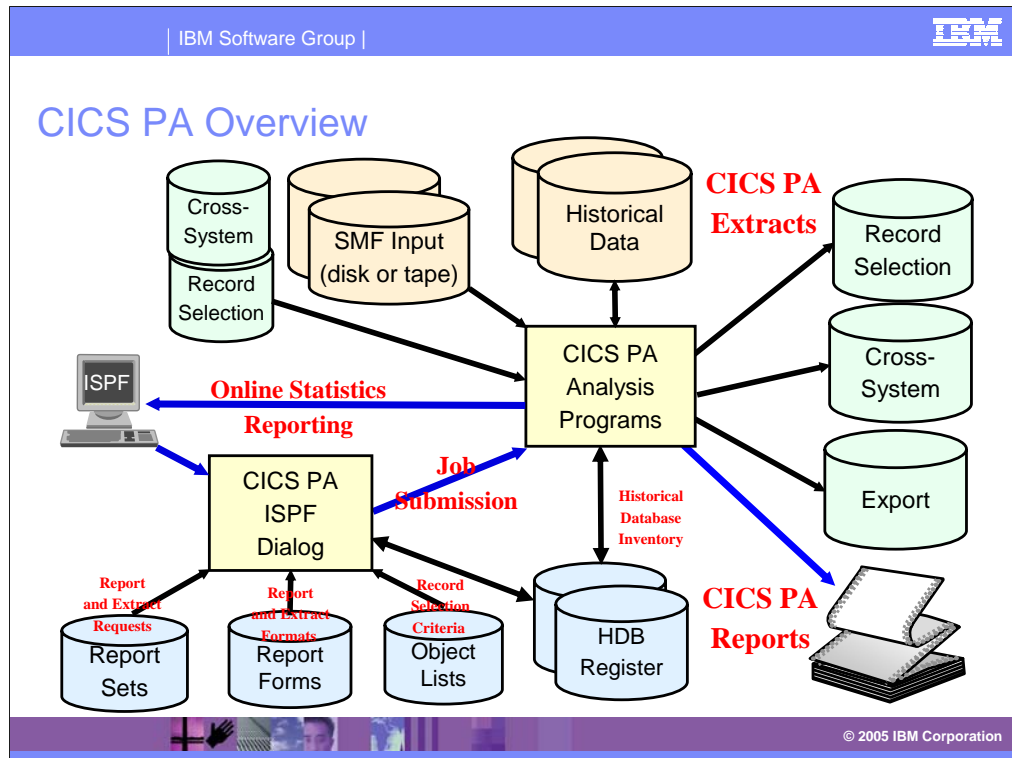
- CICS Statistics and CICS Server Statistics support
- CICS Transaction Server for z/OS Version 3.1 Support
- Historical Database (HDB) Enhancements
- Performance Summary Report Enhancements
- Report Form Enhancements
- SMF File Management Enhancements
- Report Set Enhancements
- ISPF Dialog Enhancements
- Record Selection Extract Enhancements
- NLS and Globalization Enablement
- Announce and GA – 22/02/2005 and 18/03/2005



CICS PA Overview

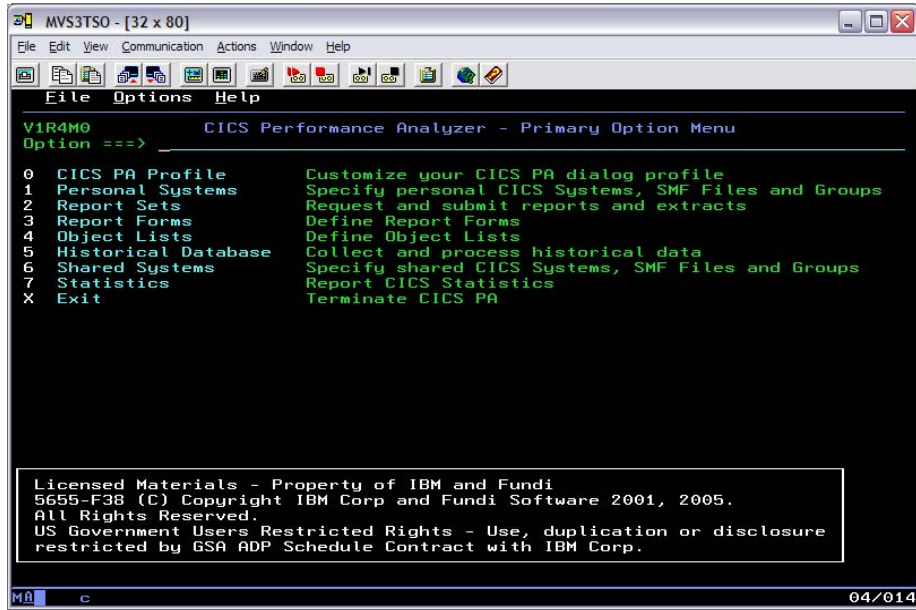
- CICS Performance Analyzer for z/OS
 - ▶ Comprehensive Performance Reporting and Analysis for CICS
 - Including DB2, WebSphere MQ, and MVS System Logger
 - ▶ Extensive Tabular Reports and Extract Data Sets
 - ▶ Historical Database (HDB)
 - Trending and Capacity Planning
 - ▶ ISPF Dialog to build, maintain, and submit reports and extracts
- Part of IBM systems management strategy
 - ▶ Complements IBM online monitors for a complete solution
 - Tivoli OMEGAMON XE for CICS on z/OS
 - ▶ Complements other IBM batch performance analysis tools (e.g. IMS PA)
 - ▶ Complements IBM enterprise wide historical trend analysis solution (Tivoli Decision Support for z/OS) with detailed CICS analysis for fast online problem resolution, CICS tuning and capacity planning





This visual shows the main components of CICS PA; including the TSO Interactive System Productivity Facility (ISPF) dialog, it's related data sets and the CICS PA batch analysis, reporting programs and data sets.

CICS PA Overview



```
MVS3TSO - [32 x 80]
File Edit View Communication Actions Window Help
File Options Help
V1R4M0 CICS Performance Analyzer - Primary Option Menu
Option ==>
0 CICS PA Profile Customize your CICS PA dialog profile
1 Personal Systems Specify personal CICS Systems, SMF Files and Groups
2 Report Sets Request and submit reports and extracts
3 Report Forms Define Report Forms
4 Object Lists Define Object Lists
5 Historical Database Collect and process historical data
6 Shared Systems Specify shared CICS Systems, SMF Files and Groups
7 Statistics Report CICS Statistics
X Exit Terminate CICS PA

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M.A. C 04/014
```

CICS PA Release 4 Content

- CICS Statistics and CICS Server Statistics Support
- CICS Transaction Server for z/OS Version 3.1 Support
- Historical Database (HDB) Enhancements
- Performance Summary Report Enhancements
- Report Form Enhancements
- SMF File Management Enhancements
- Shared System Definitions
- ISPF Dialog Enhancements
- Record Selection Extract Enhancements
- NLS and Globalization Enablement

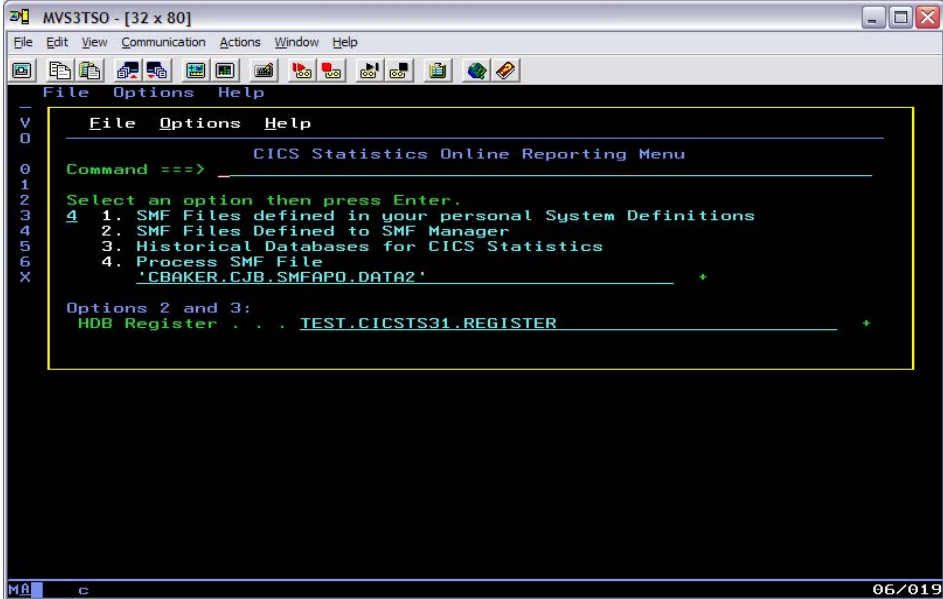


CICS Statistics and CICS Server Statistics Support

- CICS PA now provides comprehensive reporting and analysis of CICS statistics and CICS server statistics data
- The CICS PA Statistics online reporter provides comprehensive reporting of CICS Statistics data ...
 - ▶ Directly from an unloaded SMF data set or from a CICS PA Historical Database
 - ▶ The reporting facility has QMF-like features; including ...
 - Tabular reporting, Sorting by field (column), ...
 - Forms to design personalized reports
 - Print facility (to a data set or to SYSOUT)
- CICS Statistics data can also be collected into a CICS PA Historical Database (HDB)
 - ▶ Facilities to Export to a DB2 table or Extract to a CSV file for off-host analysis
 - ▶ Historical statistics data can also be reported using the online reporting facility
- Supported for CICS Transaction Server for z/OS Version 2.2 or later



CICS Statistics and CICS Server Statistics Support



The screenshot shows a terminal window titled "MVS3TSO - [32 x 80]". The window contains a menu for "CICS Statistics Online Reporting Menu". The menu options are:

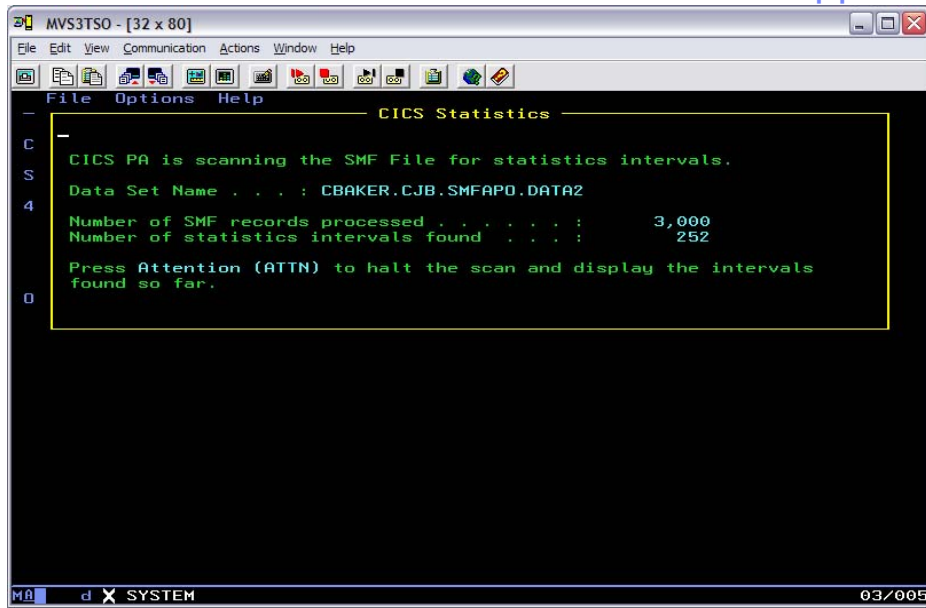
- 1. SMF Files defined in your personal System Definitions
- 2. SMF Files Defined to SMF Manager
- 3. Historical Databases for CICS Statistics
- 4. Process SMF File

The user has selected option 4, and the terminal displays the following information:

```
Command ==>
Select an option then press Enter.
4 1. SMF Files defined in your personal System Definitions
2. SMF Files Defined to SMF Manager
3. Historical Databases for CICS Statistics
4. Process SMF File
   'CBAKER.CJB.SMFAPD.DAT02'
Options 2 and 3:
HDB Register . . . TEST.CICSTS31.REGISTER
```

The terminal window also shows a status bar at the bottom with "MA c" on the left and "06/019" on the right.

CICS Statistics and CICS Server Statistics Support

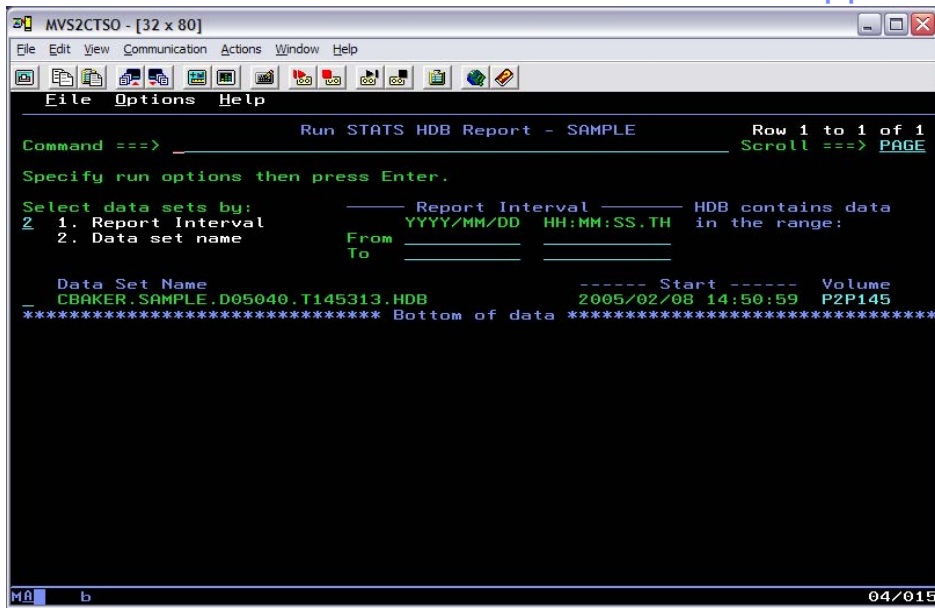


The screenshot shows a terminal window titled "MVS3T50 - [32 x 80]". The window contains the following text:

```
File Edit View Communication Actions Window Help
File Options Help
CICS Statistics
-
C CICS PA is scanning the SMF File for statistics intervals.
S Data Set Name . . . : CBAKER.CJB.SMFAPD.DATA2
4 Number of SMF records processed . . . . . : 3,000
Number of statistics intervals found . . . : 252
Press Attention (ATTN) to halt the scan and display the intervals
0 found so far.
```

The terminal window also shows a status bar at the bottom with "MVS d X SYSTEM" on the left and "03/005" on the right.

CICS Statistics and CICS Server Statistics Support



```
MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Options Help
Command ==> Run STATS HDB Report - SAMPLE Row 1 to 1 of 1
Scroll ==> PAGE
Specify run options then press Enter.
Select data sets by: Report Interval HDB contains data
2 1. Report Interval YYYY/MM/DD HH:MM:SS.TH in the range:
2. Data set name From To
Data Set Name Start Volume
CBAKER.SAMPLE.D05040.T145313.HDB 2005/02/08 14:50:59 P2P145
***** Bottom of data *****
Mn b 04/015
```

CICS Statistics - Notes

The previous three slides showed an example of the CICS Statistics Online Reporting Menu where we selected option 4, Process SMF file. This option allows you to view and/or print the selected statistics interval or just a subset of the statistics data collected in the interval.

The CICS Statistics Online Reporting Menu allows you to select the statistics data from an SMF data set from your personal or shared system definitions, from a CICS PA Historical Database (HDB), or from any unloaded SMF data set.

The third slide showed an example of viewing a statistics report from an HDB.

The next slide shows the selected Statistics Interval and the type of data that was collected in that interval. From this panel you can either view or print the selected statistics data.



CICS Statistics and CICS Server Statistics Support

```

MVS3T50 - [32 x 80]
File Edit View Communication Actions Window Help
File Edit Filter Options Help
Statistics Intervals Row 1 from 670
Command ==> Scroll ==> CSR
Select the required CICS Statistics interval.
/ System Image VRM Type --- Collection Time --- Reset Duration
- IYK3Z4 MV2C 640 INT 2004/12/09 02:04:00 Thu 02:02:00 00:02:00
- IYK3Z0F9 MV2C 640 INT 2004/12/09 02:05:00 Thu 02:00:00 00:05:00
- IYK3Z0F6 MV2C 640 INT 2004/12/09 02:05:00 Thu 02:00:00 00:05:00
- IYK3Z4 MV2C 640 INT 2004/12/09 02:06:00 Thu 02:04:00 00:02:00
- IYK3Z4 MV2C 640 INT 2004/12/09 02:08:00 Thu 02:06:00 00:02:00
- IYK3Z0F6 MV2C 640 INT 2004/12/09 02:10:00 Thu 02:05:00 00:05:00
- IYK3Z0F9 MV2C 640 INT 2004/12/09 02:10:00 Thu 02:05:00 00:05:00
- IYK3Z4 MV2C 640 INT 2004/12/09 02:10:00 Thu 02:08:00 00:01:00
- IYK3Z4 MV2C 640 REQ 2004/12/09 02:10:00 Thu 02:10:00
- IYK3Z4 MV2C 640 USS 2004/12/09 02:10:24 Thu 02:10:00
- IYK3Z4 MV2C 640 USS 2004/12/09 02:10:33 Thu 02:10:00
- IYK3Z4 MV2C 640 USS 2004/12/09 02:10:34 Thu 02:10:00
- IYK3Z4 MV2C 640 USS 2004/12/09 02:10:38 Thu 02:10:00
- IYK3Z4 MV2C 640 INT 2004/12/09 02:11:00 Thu 02:10:00 00:01:00
- IYK3Z4 MV2C 640 INT 2004/12/09 02:12:00 Thu 02:11:00 00:01:00
- IYK3Z7DD MV2C 640 USS 2004/12/09 02:12:57 Thu 00:54:12
- IYK3Z7DD MV2C 640 EDD 2004/12/09 02:12:57 Thu 00:54:12
- IYK3Z7DD MV2C 640 USS 2004/12/09 02:13:02 Thu 02:12:57
- IYK3Z7DA MV2C 640 USS 2004/12/09 02:13:19 Thu 00:54:01
- IYK3Z7DA MV2C 640 EDD 2004/12/09 02:13:19 Thu 00:54:01
- IYK3Z7DA MV2C 640 USS 2004/12/09 02:13:24 Thu 02:13:19
- IYK3Z7DA MV2C 640 USS 2004/12/09 02:13:25 Thu 02:13:19
- IYK3Z4 MV2C 640 USS 2004/12/09 02:13:54 Thu 02:12:00
- IYK3Z4 MV2C 640 USS 2004/12/09 02:13:56 Thu 02:12:00
MÁ c 04/015

```


CICS Statistics - Notes

The previous slide shows the statistics data that is available in the interval that we selected from the unloaded SMF data set. From this panel you can either view the selected data, customize the report layout, or print the selected statistics data.

The next slide shows the selected Statistics Interval and the statistics data that was collected by the statistics interval. The data is shown by category, you can expand or collapse each category group, print the entire interval, or print a subset of the interval either by category or by a specific statistics record type.



CICS Statistics and CICS Server Statistics Support

```

MVS3T50 - [32 x 80]
File Edit View Communication Actions Window Help
File Edit Options Help
Statistics Reports Line 1 of 87
Command ==> Scroll ==> CSR
System: IYK3Z0F9/MV2C Type: INT Interval: 2004/12/09 02:05:00 Thursday

** Categories **
Regions Size
- - - - -
Transaction Manager 424
CICS Dispatcher 42
  Dispatcher Overview 1
  Dispatcher TCB Modes 18
  Dispatcher TCB Pools 4
  MVS TCB Overview 1
  MVS TCBS 18
CICS Storage 358
  Storage Overview 1
  DSAs 8
  Domain Subpools 345
  Task Subpools 4
CICS Dumps 5
  Transaction Dump Overview 1
  Transaction Dumps 3
  System Dump Overview 1
  System Dumps 0
Enqueue Pools 18
Connectivity 6
  VTAM 1
  Terminal Autoinstall 1
  Terminals 2
  ISC/MRD Connections 0

```

CICS Statistics and CICS Server Statistics Support

- The CICS PA Statistics online reporter provides comprehensive reporting of CICS Statistics data ...
 - ▶ The reporting facility has QMF-like features; including ...
 - Tabular reporting, Sorting by field (column), ...
 - Forms to design personalized reports
 - Hyper-links to jump directly to related reports
 - Print facility (to a data set or to SYSOUT)



CICS Statistics and CICS Server Statistics Support

The screenshot shows a terminal window titled "MVS3TSO - [32 x 80]" with a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The main display area shows a command prompt "Command ==>" and "System: IYK3ZD". A yellow box highlights a "Line Actions" menu with the following options:

```
Line Actions
-----
Select by number or action code then press Enter.
 1. Display report... (S)
 2. Display report information... (I)
 3. Print report... (P)
 4. Delete report (D)
```

Below the menu, a list of statistics is displayed with their respective counts:

Dispatcher TCB Pools	4
MVS TCB Overview	1
MVS TCBs	18
- CICS Storage	358
Storage Overview	1
DSAs	8
Domain Subpools	345
Task Subpools	4
- CICS Dumps	5
Transaction Dump Overview	1
Transaction Dumps	3
System Dump Overview	1
System Dumps	0
Enqueue Pools	18
- Connectivity	6
VTAM	1
Terminal Autoinstall	1
Terminals	2
ISC/MRD Connections	0

The terminal window also shows "f 87 CSR" and "ay" in the top right corner, and "MÁ c" and "07/019" at the bottom. A copyright notice "© 2005 IBM Corporation" is visible at the bottom right of the slide.

This slide shows an example of the line action commands that are available to display a selected statistics report.

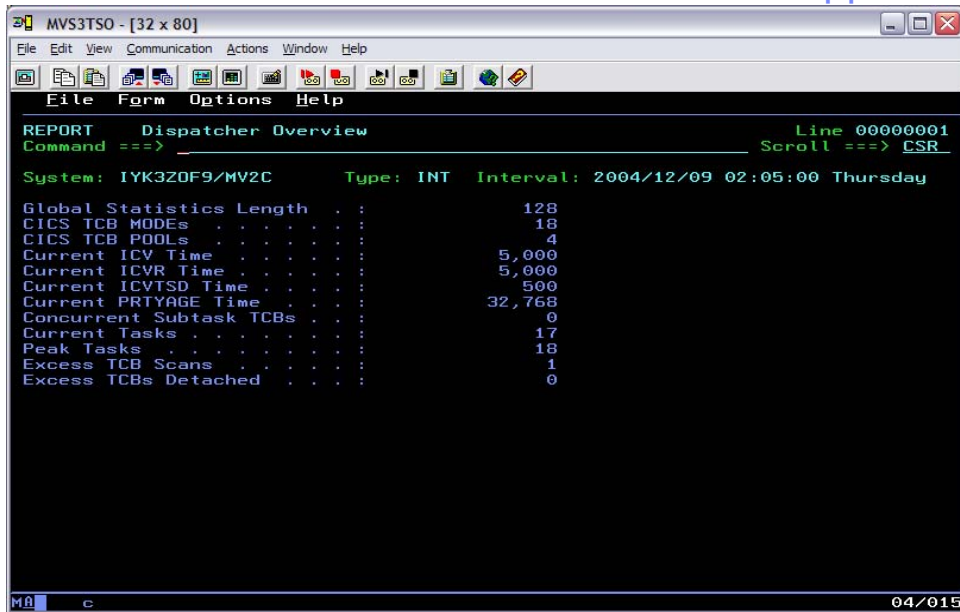
CICS Statistics - Notes

The previous slide shows an example of the line action commands that are available to display and/or report on a selected statistics report.

The next two slides show examples of the Dispatcher Overview and Dispatcher TCB Modes reports.



CICS Statistics and CICS Server Statistics Support



```
MVS3TSSO - [32 x 80]
File Edit View Communication Actions Window Help
File Form Options Help
REPORT Dispatcher Overview Line 00000001
Command ==> Scroll ==> CSR
System: IYK3ZDF9/MV2C Type: INT Interval: 2004/12/09 02:05:00 Thursday
Global Statistics Length . . . . . 128
CICS TCB MODEs . . . . . 18
CICS TCB POOLs . . . . . 4
Current ICV Time . . . . . 5,000
Current ICVR Time . . . . . 5,000
Current ICVTSD Time . . . . . 500
Current PRYAGE Time . . . . . 32,768
Concurrent Subtask TCBs . . . . . 0
Current Tasks . . . . . 17
Peak Tasks . . . . . 18
Excess TCB Scans . . . . . 1
Excess TCBs Detached . . . . . 0
MA c 04/015
```

CICS Statistics and CICS Server Statistics Support

MVS3TSO - [32 x 80]

File Edit View Communication Actions Window Help

File Form Options Help

REPORT Dispatcher TCB Modes Line 00000001 Col 002 008 >
 Command ==> Scroll ==> CSR

System: IYK3Z0F9/MV2C Type: INT Interval: 2004/12/09 02:05:00 Thursday

TCB Mode Name	TCB Mode Open	TCB Pool	TCB Attaches	TCB Attach Failures	Current TCBS Attached	Peak TCBS Attached
QR	NOTOPEN	NA	0	0	1	1
R0	NOTOPEN	NA	0	0	1	1
C0	UNKNOWN	NA	0	0	0	0
SZ	UNKNOWN	NA	0	0	0	0
RP	UNKNOWN	NA	0	0	0	0
F0	NOTOPEN	NA	0	0	1	1
SL	NOTOPEN	NA	0	0	1	1
S0	NOTOPEN	NA	0	0	1	1
SP	NOTOPEN	NA	0	0	1	1
D2	UNKNOWN	NA	0	0	0	0
JM	NOTOPEN	NA	0	0	0	0
S8	UNKNOWN	NA	0	0	0	0
L8	OPEN	OPEN	0	0	1	1
L9	UNKNOWN	NA	0	0	0	0
J8	UNKNOWN	NA	0	0	0	0
J9	OPEN	JVM	0	0	1	1
X8	UNKNOWN	NA	0	0	0	0
X9	UNKNOWN	NA	0	0	0	0

MA c 04/015

CICS Statistics and CICS Server Statistics Support

```

MVS3TSO - [32 x 80]
File Edit View Communication Actions Window Help
File Edit Filter Options Help
-
C      Command ==>          Print Statistics Report      Report not printed
S      Specify Statistics Report print options.
/      Report Destination:
P      1 1. Data Set  2. SYSOUT

Output Data Set:
Data Set Name . . . XM.STATS
Disposition . . . 1 1. OLD  2. MOD  (If cataloged)

Enter "/" to select option
/ Browse output data set

Report Output:
SYSOUT Class . . . A      Print Lines per Page . . 60_ (0-255)

IYK3Z4  MV2C  640  INT  2004/12/09 02:12:00 Thu 02:11:00 00:01:00
IYK3Z7DD MV2C  640  USS  2004/12/09 02:12:57 Thu 00:54:12
IYK3Z7DD MV2C  640  EDD  2004/12/09 02:12:57 Thu 00:54:12
IYK3Z7DD MV2C  640  USS  2004/12/09 02:13:02 Thu 02:12:57
IYK3Z7DA MV2C  640  USS  2004/12/09 02:13:19 Thu 00:54:01
IYK3Z7DA MV2C  640  EDD  2004/12/09 02:13:19 Thu 00:54:01
IYK3Z7DA MV2C  640  USS  2004/12/09 02:13:24 Thu 02:13:19
IYK3Z7DA MV2C  640  USS  2004/12/09 02:13:25 Thu 02:13:19
IYK3Z4  MV2C  640  USS  2004/12/09 02:13:54 Thu 02:12:00
IYK3Z4  MV2C  640  USS  2004/12/09 02:13:56 Thu 02:12:00
MA b                                     04/019

```


CICS Statistics - Notes

The previous slide shows an example printing a statistics report. The report can be sent to either a data set, which can then be browsed, or to SYSOUT.

The next two slides show an example of browsing a statistics report sent to a dataset.



CICS Statistics and CICS Server Statistics Support

```

MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
Menu Utilities Compilers Help

BROWSE CBAKER.DSMODE.STATS Line 00000000 Col 001 080
Command ==> Scroll ==> PAGE
***** Top of Data *****
V1R4M0 CICS Performance Analyzer
CICS Statistics - Dispatcher TCB

System: IYK3Z0F6/MV2C VRM: 640 Type: INT Interval: 2004/11/09 02:10:00 Tuesda
TCB TCB TCB Current Peak
Mode Mode Open TCB Attaches Attach Failures Attached TCBs TCBs
Name Open Pool Attaches Failures Attached Attached Attached

QR NOTOPEN NA 0 0 0 1 1
RO NOTOPEN NA 0 0 0 1 1
CO UNKNOWN NA 0 0 0 0 0
SZ UNKNOWN NA 0 0 0 0 0
RP UNKNOWN NA 0 0 0 0 0
FO NOTOPEN NA 0 0 0 1 1
SL NOTOPEN NA 0 0 0 1 1
SO NOTOPEN NA 0 0 0 1 1
SP NOTOPEN NA 0 0 0 1 1
D2 UNKNOWN NA 0 0 0 0 0
JM NOTOPEN NA 0 0 0 0 0
SB UNKNOWN NA 0 0 0 0 0
LB OPEN OPEN 0 0 0 1 1
L9 UNKNOWN NA 0 0 0 0 0
J8 UNKNOWN NA 0 0 0 0 0
J9 UNKNOWN NA 0 0 0 0 0
X8 UNKNOWN NA 0 0 0 0 0
X9 UNKNOWN NA 0 0 0 0 0
    
```

CICS Statistics and CICS Server Statistics Support

```

MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Edit Options Help

FORM      Dispatcher TCB Modes      Line 1 of 21
Command ==>      Scroll ==> CSR

/ Heading      Usage      Width
TCB Mode Name  FIX      Column  Max Report
TCB Mode Open  OMIT      8      8
TCB Pool       OMIT      8
TCB Attaches   OMIT      10
TCB Attach Failures  OMIT      10
Current TCBs Attached  OMIT      10
Peak TCBs Attached  OMIT      10
Current Mode TCBs     _____ 10      20
Peak Mode TCBs       _____ 10      32
TCB Allocates       OMIT      10
TCB Detaches Unclean  OMIT      10
TCB Detaches Stolen  OMIT      10
TCB Detaches Excess  OMIT      10
TCB Detaches Other   OMIT      10
TCB Steals          OMIT      10
TCB Mismatches      OMIT      10
MVS Waits          _____ 10      44
Total MVS Wait Time  _____ 19      65
Total TCB Dispatch Time  _____ 19      86
Total TCB DS CPU Time  _____ 19     107
Total TCB CPU Time   _____ 19     128
***** End of Form *****

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```

CICS Statistics - Notes

The previous slide shows an example of the report form for the Dispatcher TCB Modes report. Fields can be moved, omitted, etc, on the report as required. In this particular example we want to omit a number of the fields.

The next slide shows the Dispatcher TCB Modes report using the report from shown on the previous slide.



CICS Statistics and CICS Server Statistics Support

MVS2CTSO - [32 x 80]

File Edit View Communication Actions Window Help

File Form Options Help

REPORT Dispatcher TCB Modes Line 00000001 Col 002 006 >
 Command ==> Scroll ==> CSR

System: IYK3ZDF6/MV2C Type: INT Interval: 2004/11/09 02:10:00 Tuesday

TCB Mode Name	Current Mode TCBS	Peak Mode TCBS	MVS Waits	Total MVS Wait Time	TCB D
QR	1	1	62	00:04:59.844786	00:00:00
RO	1	1	0	00:00:00.000000	00:00:00
CO	0	0	0	00:00:00.000000	00:00:00
SZ	0	0	0	00:00:00.000000	00:00:00
RP	0	0	0	00:00:00.000000	00:00:00
FO	1	1	0	00:00:00.000000	00:00:00
SL	1	1	0	00:00:00.000000	00:00:00
SD	1	1	0	00:00:00.000000	00:00:00
SP	1	1	0	00:00:00.000000	00:00:00
D2	0	0	0	00:00:00.000000	00:00:00
JM	0	0	0	00:00:00.000000	00:00:00
S8	0	0	0	00:00:00.000000	00:00:00
L8	0	0	0	00:00:00.000000	00:00:00
L9	0	0	0	00:00:00.000000	00:00:00
J8	0	0	0	00:00:00.000000	00:00:00
J9	0	0	0	00:00:00.000000	00:00:00
X8	0	0	0	00:00:00.000000	00:00:00
X9	0	0	0	00:00:00.000000	00:00:00

MA b 04/015

CICS Transaction Server for z/OS Version 3.1 Support

- CICS Transaction Server for z/OS Version 3.1 support includes ...
 - ▶ Support for all new CMF Performance Class data fields ...
 - Performance List, ListX, and Summary Reports and Extracts
 - Performance Record Selection Criteria
 - ▶ New and updated Statistics records
 - ▶ Revised Performance Totals Report
 - ▶ Revised Performance Wait Analysis Report
 - ▶ Additional Summary Report and Extract By keywords
 - ▶ Additional Performance ListX Report By and Limit keywords
 - ▶ Revised Cross-System Work Extract default record format
 - ▶ Revised Performance Data Extract default record format
 - ▶ Additional Sample Report Forms



CICS Transaction Server for z/OS Version 3.1 Support

- CICS Performance Analyzer provides customize reports ...
 - ▶ Custom reports are provided which enables extensive performance analysis of the many new functions introduced in CICS Transaction Server V3.1
 - Including CICS Integration and Application Transformation
 - ▶ Detailed and summary reports provided include ...
 - Transaction CPU Analysis – including CICS TCB usage for ...
 - OPENAPI Applications, XPLink, ...
 - Web services applications
 - CICS Web support and Secure Sockets Layer (SSL) enhancements
 - Application Transformation - inter-program data transfer ...
 - Channel Container usage, Program request channel activity, ...
 - ▶ Online Statistics Reporting is available for all CICS statistics data ...
 - Including the new statistics data on the CICS resources for Web services ...
 - PIPELINE, URIMAP, and WEBSERVICE
 - And the CICS Web support enhancements to TCP/IP Services



CICS Transaction Server for z/OS Version 3.1 Support

The screenshot shows a terminal window titled 'MVS2CTSO - [32 x 80]'. The window contains a list of reports under the heading 'Report Forms Data Set . . . : CBAKER.CICSPA.FORM'. The reports are listed in a table-like format with columns for Name, Type, Description, Changed, and ID. The reports include ACCTSUM, CCLST, CCSUM, CC3LST, CC3SUM, CPU3LEXT, CPU3SEXT, IC3LST, IC3SUM, PC3LST, PC3SUM, TCB3LST, TCB3SUM, WBSV3LST, WBSV3SUM, WBS3LST, WBS3SUM, and WB3LST. The terminal also shows a command prompt 'Command ==>' and a status bar at the bottom with '04/015'.

```

MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Confirm Samples Options Help
Command ==>
Report Forms
2 members added
Scroll ==> PAGE
Report Forms Data Set . . . : CBAKER.CICSPA.FORM
/ Name Type Description Changed ID
- ACCTSUM SUMMARY Accounting Summary HDB Extract 2005/01/13 10:10 CBAKER
- CCLST LIST Channel Container Activity 2005/03/25 00:00 CICSPA
- CCSUM SUMMARY Channel Container Activity 2005/03/25 00:00 CICSPA
- CC3LST LIST Channel Container Activity (V3) 2005/03/25 00:00 CICSPA
- CC3SUM SUMMARY Channel Container Activity (V3) 2005/03/25 00:00 CICSPA
- CPU3LEXT LIST CPU Analysis and Extract (V3) 2005/03/25 00:00 CICSPA
- CPU3SEXT SUMMARY CPU Analysis and Extract (V3) 2005/03/25 00:00 CICSPA
- IC3LST LIST Interval Control Activity (V3) 2005/03/25 00:00 CICSPA
- IC3SUM SUMMARY Interval Control Activity (V3) 2005/03/25 00:00 CICSPA
- PC3LST LIST Program Request Channel Activity 2005/03/25 00:00 CICSPA
- PC3SUM SUMMARY Program Request Channel Activity 2005/03/25 00:00 CICSPA
- TCB3LST LIST CICS TCB Usage and Delays (V3) 2005/03/25 00:00 CICSPA
- TCB3SUM SUMMARY CICS TCB Usage and Delays (V3) 2005/03/25 00:00 CICSPA
- WBSV3LST LIST CICS WEBSERVICE Usage (V3) 2005/03/25 00:00 CICSPA
- WBSV3SUM SUMMARY CICS WEBSERVICE Usage (V3) 2005/03/25 00:00 CICSPA
- WBS3LST LIST CICS Web Support Analysis (V3) 2005/03/25 00:00 CICSPA
- WBS3SUM SUMMARY CICS Web Support Analysis (V3) 2005/03/25 00:00 CICSPA
- WB3LST LIST CICS Web Support Analysis (V3) 2005/03/25 00:00 CICSPA
- WB3SUM SUMMARY CICS Web Support Analysis (V3) 2005/03/25 00:00 CICSPA
***** Bottom of data *****
MA c 04/015

```

This slide shows some of the 130+ standard reports that are supplied pre-defined with CICS PA Release 4. Those shown on the slide are those that have been specifically added to enable you to analyze your CICS applications that exploit the new functions introduced in CICS TS 3.1.

CICS Transaction Server V3.1 Support - Notes

This slide shows some of the 130+ standard reports that are supplied pre-defined with CICS PA Release 4. Those shown on the slide are those that have been specifically added to enable you to analyze your CICS applications that exploit the new functions introduced in CICS TS 3.1.



CICS PA Historical Database (HDB) - Today

- Flexible and easy-to-use facility for collecting and managing historical performance data for your CICS systems
- The CICS PA history database function provides ...
 - ▶ Short term history data detailing individual transaction performance for use in performance problem analysis
 - ▶ Long term history data summarized over time can be used for trend analysis and capacity planning
 - ▶ Powerful and flexible definition facility for historical data repositories based on Report Forms
 - ▶ Comprehensive reporting facilities
 - ▶ Optionally load history data into DB2 for further analysis and reporting
 - ▶ Definition and management of the historical databases (HDBs) from the CICS PA ISPF dialog
 - ▶ Trending and capacity planning

The CICS PA Historical Database (HDB) provides a flexible and easy-to-use facility for managing historical performance data for your CICS systems. The CICS PA History Database (HDB) function provides:-

Short term history data detailing individual transaction performance for use in performance problem analysis

Long term history data summarized over time can be used for trend analysis and capacity planning

Powerful and flexible definition facility for historical data repositories

Comprehensive reporting facilities

A facility to optionally load history data into DB2 for further analysis and reporting using DB2 reporting tools such as Query Management Facility (QMF)

Definition and management of the historical databases (HDBs) from the CICS PA ISPF dialog

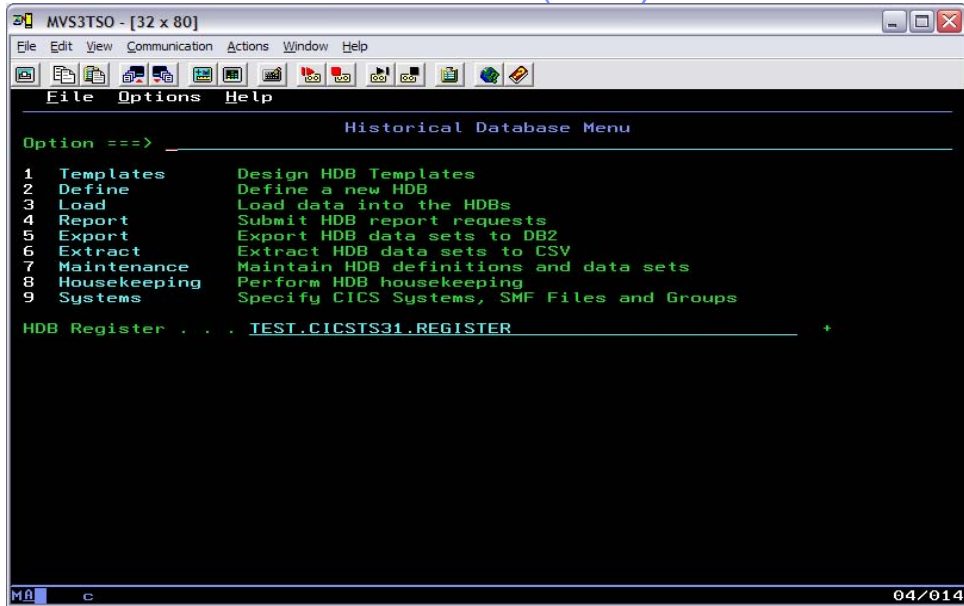
Trending and Capacity Planning capabilities.

CICS PA Historical Database (HDB) Enhancements

- CICS Statistics support
 - ▶ A new type of HDB called the Statistics HDB allows the collection of CICS Statistics and CICS Server Statistics
 - ▶ Statistics HDBs can be reported using the online Statistics Reporting facility
- HDB Load request integration into Report Sets
 - ▶ Allows the user to run their reports and extracts and also produce historical performance and statistics data in a single pass of the SMF File
 - ▶ Multiple HDB load requests are supported
- HDB Load audit trail
 - ▶ HDB Load requests are now audited in the HDB Register to prevent duplicate container data sets being generated
 - ▶ Audit information can be viewed from the HDB dialog
- New facility to extract HDB List, Summary and Statistics data to a CSV (comma-separated variable) format data set



CICS PA Historical Database (HDB) Enhancements



The screenshot shows a terminal window titled "MVS3T50 - [32 x 80]" with a menu titled "Historical Database Menu". The menu lists nine options with their descriptions. The current selection is "HDB Register . . . TEST.CICSTS31.REGISTER".

```
MVS3T50 - [32 x 80]
File Edit View Communication Actions Window Help
File Options Help
Historical Database Menu
Option ==>
1 Templates      Design HDB Templates
2 Define         Define a new HDB
3 Load          Load data into the HDBs
4 Report         Submit HDB report requests
5 Export         Export HDB data sets to DB2
6 Extract        Extract HDB data sets to CSV
7 Maintenance    Maintain HDB definitions and data sets
8 Housekeeping   Perform HDB housekeeping
9 Systems        Specify CICS Systems, SMF Files and Groups
HDB Register . . . TEST.CICSTS31.REGISTER +
MR C 04/014
```

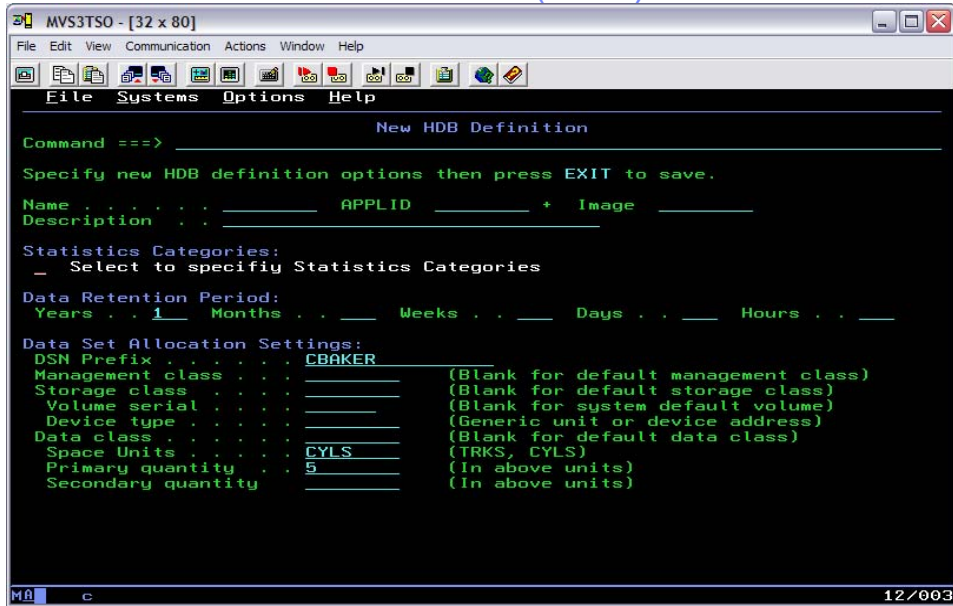
CICS PA Historical Database (HDB) - Notes

The previous slide shows the Historical Database Menu with the additional option to extract HDB data sets to a CSV data set.

The next slide shows the panel for a new statistics type HDB definition. It is very similar to the existing HDB definitions for performance data and allows you to select the statistics categories of the data to be collected in the HDB.



CICS PA Historical Database (HDB) Enhancements



```

MVS3TSO - [32 x 80]
File Edit View Communication Actions Window Help
File Systems Options Help

New HDB Definition
Command ==>

Specify new HDB definition options then press EXIT to save.
Name . . . . . APPLID _____ + Image _____
Description . . . . .

Statistics Categories:
_ Select to specify Statistics Categories

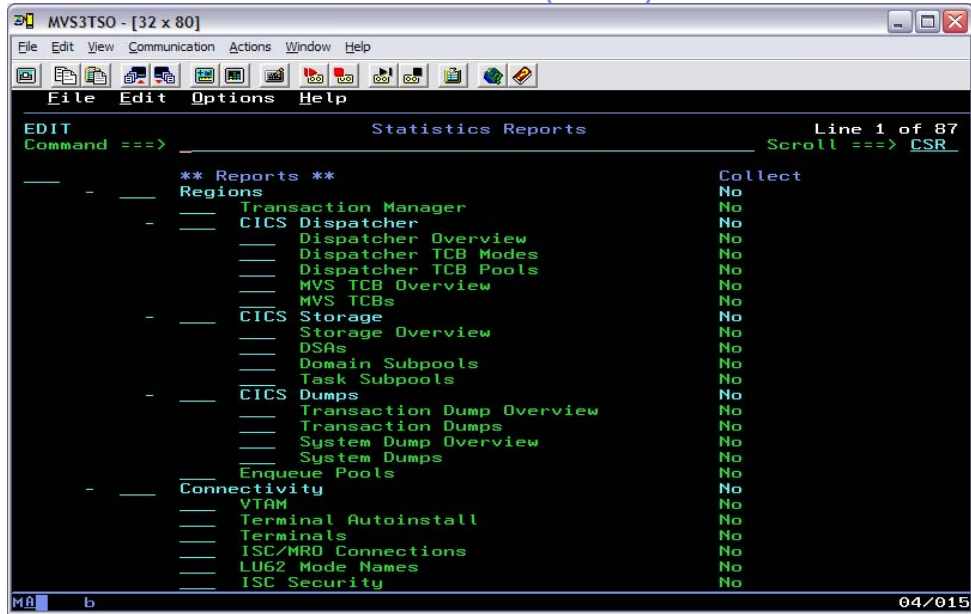
Data Retention Period:
Years . . 1  Months . . . . . Weeks . . . . . Days . . . . . Hours . . . . .

Data Set Allocation Settings:
DSN Prefix . . . . . CBAKER
Management class . . . . . (Blank for default management class)
Storage class . . . . . (Blank for default storage class)
Volume serial . . . . . (Blank for system default volume)
Device type . . . . . (Generic unit or device address)
Data class . . . . . (Blank for default data class)
Space Units . . . . . CYLS (TRKS, CYLS)
Primary quantity . . . 5 (In above units)
Secondary quantity . . . (In above units)

MA c 12/003

```

CICS PA Historical Database (HDB) Enhancements



```
MVS3TSO - [32 x 80]
File Edit View Communication Actions Window Help
File Edit Options Help
EDIT                               Statistics Reports                               Line 1 of 87
Command ==>                        Scroll ==> CSR

** Reports **
Regions                               Collect
-----                               -----
Transaction Manager                   No
CICS Dispatcher                       No
  Dispatcher Overview                  No
  Dispatcher TCB Modes                 No
  Dispatcher TCB Pools                 No
  MVS TCB Overview                     No
  MVS TCBs                              No
CICS Storage                           No
  Storage Overview                     No
  DSAs                                  No
  Domain Subpools                      No
  Task Subpools                        No
CICS Dumps                              No
  Transaction Dump Overview            No
  Transaction Dumps                    No
  System Dump Overview                 No
  System Dumps                         No
Enqueue Pools                          No
Connectivity                           No
  VTAM                                 No
  Terminal Autoinstall                 No
  Terminals                            No
  ISC/MRD Connections                  No
  LU62 Mode Names                      No
  ISC Security                          No
```

CICS PA Historical Database (HDB) Enhancements

- HDB Load request integration into Report Sets
 - ▶ Allows the user to run their reports and extracts and also produce historical performance and statistics data in a single pass of the SMF File
 - ▶ Multiple HDB load requests are supported
- HDB Load audit trail
 - ▶ HDB Load requests are now audited in the HDB Register to prevent duplicate container data sets being generated
 - ▶ Audit information can be viewed from the HDB dialog
 - ▶ Expired audit records are removed from the HDB Register via the HDB Housekeeping process

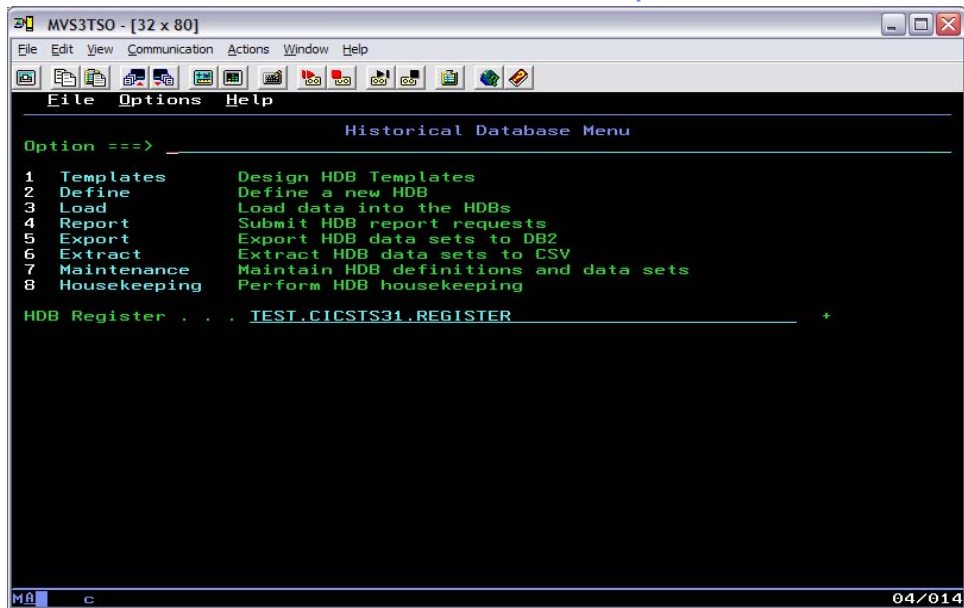


CICS PA Historical Database (HDB) Enhancements

- The existing facility to export to HDB List and Summary performance data to a DB2 table has been extended to support Statistics data
- A new facility is provided to extract HDB List, Summary and Statistics data into a CSV (comma-separated variable) format data set
 - ▶ This allows the user to analyze both CICS Monitoring and CICS Statistics historical data off-host using PC spreadsheet or database tools



CICS PA Historical Database – Export and Extract



The screenshot shows a terminal window titled "MVS3T50 - [32 x 80]" with a menu titled "Historical Database Menu". The menu lists eight options, each with a description. The current selection is "HDB Register . . . TEST.CICSTS31.REGISTER".

```
MVS3T50 - [32 x 80]
File Edit View Communication Actions Window Help
File Options Help
-----
Option ==>
-----
1 Templates      Design HDB Templates
2 Define         Define a new HDB
3 Load          Load data into the HDBs
4 Report         Submit HDB report requests
5 Export         Export HDB data sets to DB2
6 Extract        Extract HDB data sets to CSV
7 Maintenance    Maintain HDB definitions and data sets
8 Housekeeping   Perform HDB housekeeping

HDB Register . . . TEST.CICSTS31.REGISTER +
```

MB c 04/014

CICS PA Historical Database – Export and Extract

- Export to DB2
 - ▶ A facility to load history data into DB2 for further analysis and reporting
 - Creates the DDL to define the DB2 Table
 - Generates the JCL to load an HDB into a DB2 Table
 - ▶ Access to DB2 Tools, such as ...
 - DB2 Query Management Facility (QMF)
 - Query and Reporting tool
- Extract to CSV data set
 - ▶ A facility to extract history data into a CSV format data set
 - Can then be imported by database or PC spreadsheet tools for further processing and analysis.



CICS PA Historical Database – Export and Extract

```

MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Options Help
Export HDB Data Set
Command ==>
HDB Name . . . : ACCTDLY
Data Set Name . : CBAKER.ACCTDLY.D05021.T141045.HDB
Select option
2 1. Create DDL to define table      2. Load data into table
Create Options                          Load Options
- Create Database                      1 1. Resume
- Create Storage Group                 2 2. Replace
DB2 Settings:
DB2 Subsystem ID . . . DB01
DSNTIAD Plan Name . . . DSNT1A71
DB2 Load Library . . . 'DB2710.SDSNLOAD'
DB2 Exit Library . . . 'DB2710.SDSNEXIT'
DB2 RUNLIB Library . . . 'DB2710.RUNLIB.LOAD'
Database . . . . . CICSPAHD      Storage Group . . . CPA14STG
VCAT Catalog name . . . DB2CAT   Volume . . . . .
Allocation: Primary      Secondary . . . . .
Include Clock Field Components          Summary Options
1 1. Time and Count                    - Include Sums of Squares
  2. Time only
  3. Count only
MA b                                     04/015

```

This slide shows an example of exporting an HDB data sets to load the historical data into a DB2 table.

CICS PA Historical Database (HDB) Enhancements

```

MVS3TSO - [32 x 80]
File Edit View Communication Actions Window Help
File Options Help
Run SUMMARY HDB Extract - SAMPLE
Command ==> _____
Specify Extract request options then press Enter to continue submit.
_____ Report Interval _____ HDB contains data
      YYYY/MM/DD HH:MM:SS.TH in the range:
From _____ 1999/02/04 11:10 Extract Recap:
To _____ 1999/02/16 08:10 DDname . . . HDEX0001

Output Data Set:
Data Set Name . . . HDB.EXTRACT.TEST
Disposition . . . 1 1. OLD 2. MOD (If cataloged)

Extract Format:
Form . . . . . ACCTSUM + Enter "/" to select option
Delimit . . . . . 1 - Include Field Labels
- Numeric Fields in Float format

Processing Options:
Time Interval . . . (hh:mm:ss) Enter "/" to select option
- Edit JCL before submit

MVS c 04/017

```

CICS PA Historical Database (HDB) – Release 4

- Flexible and easy-to-use facility for collecting and managing historical performance and statistics data for your CICS systems
- The CICS PA history database function provides ...
 - ▶ Short term history data detailing individual transaction performance for use in performance problem analysis
 - ▶ Long term history data summarized over time that can be used for trend analysis, capacity planning and accounting purposes
 - ▶ Statistics history data for use in performance analysis and reporting purposes
 - ▶ Powerful and flexible definition facility for historical data repositories based on Report Forms
 - ▶ Comprehensive reporting facilities
 - ▶ Optionally export history data to a DB2 table for further analysis and reporting
 - ▶ Optionally extract history data into a CSV format data set
 - ▶ Definition and management of the historical databases (HDBs) from the CICS PA ISPF dialog
- Performance analysis, trending, capacity planning and accounting

This foil describes the CICS PA Historical Database (HDB) capabilities and functions that are now available with CICS PA Release 4.

Performance Summary Report Enhancements

- Maximum number of Summary keys increased from 3 to 8
- Summary reports can be sorted by numerical fields
 - ▶ Alternate Summary Report key sequencing allows users to alter the sequence of Summary report lines by one of the numerical fields in the report, instead of alphabetically by key
 - For example, order the report by Response time
 - The report is by default, sequenced in Sort key order (for example Transaction Code)
 - Now the report can be sequenced in ascending or descending numerical field order (for example Response time)
 - The transactions with the highest response time are printed at the top of the report, quickly pinpointing potential performance problems
- Additional Summary By keys ...
 - ▶ Transaction ORIGIN – allows more flexibility and report format control than that provided by the existing Transaction Group Summary report

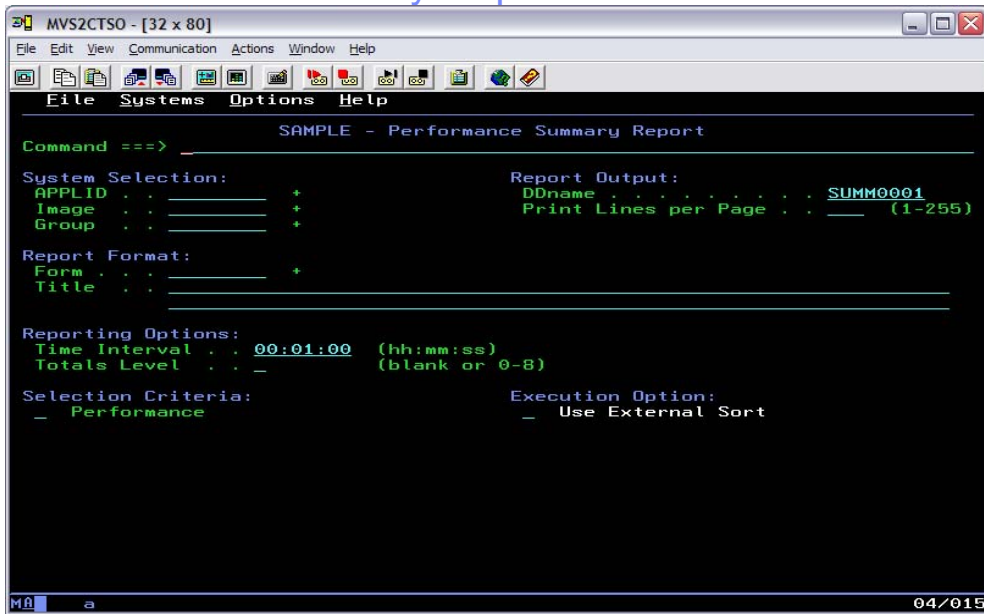


Performance Summary Report Enhancements

- Optional sub-total level
 - ▶ Sub-totals at each key break in the report can be excluded if not required
- Optional grand-total line
 - ▶ Printed at the end of the report summarizing the report data for each field
 - Grand Total is a viable alternative to the Performance Totals report which is a very expensive report to run because it accumulates data against all CMF fields (282 or more!)
 - The Performance Summary report provides similar information to the Totals report, but with the advantage that it only accumulates data against the required fields specified in the Report Form



Performance Summary Report Enhancements



```
MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Systems Options Help
SAMPLE - Performance Summary Report
Command ==>
System Selection:
APPLID . . . . . +
Image . . . . . +
Group . . . . . +
Report Output:
DDname . . . . . : SUMM0001
Print Lines per Page . . . . . (1-255)
Report Format:
Form . . . . . +
Title . . . . .
Reporting Options:
Time Interval . . . 00:01:00 (hh:mm:ss)
Totals Level . . . _ (blank or 0-8)
Selection Criteria:
_ Performance
Execution Option:
_ Use External Sort
M a 04/015
```

Performance Summary Report Enhancements

- Field formatting and Field precision enhancements ...
 - ▶ A new TASKCNT special field can optionally accumulate based on Task (transaction) count, rather than performance record count
 - ▶ Time stamp fields can optionally be reported as separate date and time values
 - ▶ Field precision reduction
 - Numerical Report fields can have their precision reduced by the specification of a divisor
 - For example, instead of reporting storage values in units of bytes, divide by 1024 to report the value in units of kilobytes or megabytes
 - ▶ Optional increased precision for numerical fields
 - From the standard 4 decimal places to 6 (micro-seconds) decimal places

- These enhancements combine to significantly increase the power and flexibility of the CICS PA Performance Summary reporting capabilities

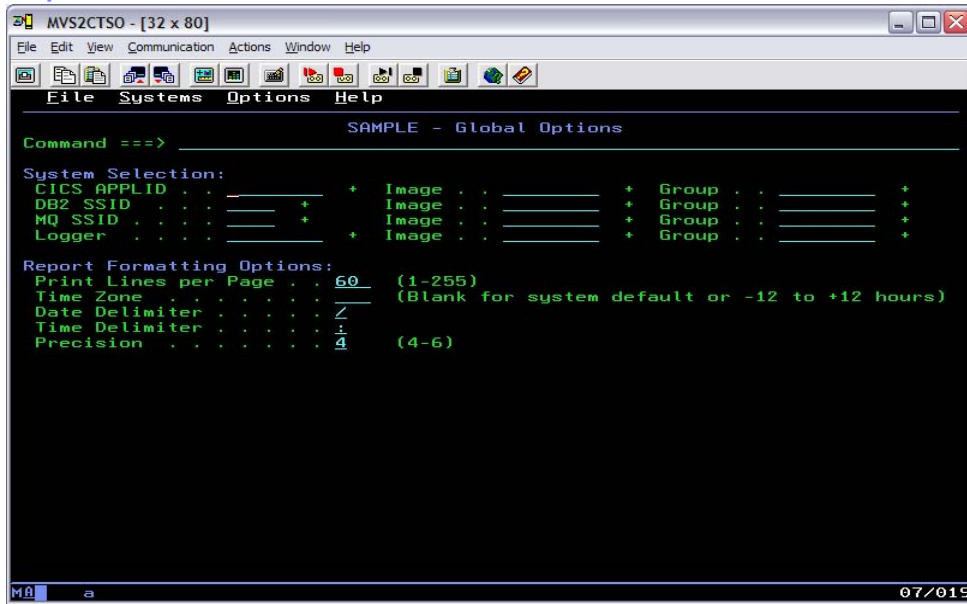


Other Report Enhancements

- Performance List and ListX Report Enhancements ...
 - ▶ Field precision enhancements ...
 - Field precision reduction
 - Numerical Report fields can have their precision reduced by the specification of a divisor
 - Optional increased precision for numerical fields
 - From the standard 4 decimal places to 6 (micro-seconds)
- Resource Usage Report Enhancement ...
 - ▶ Tsqueue resource names are printed in hexadecimal when necessary



Report Enhancements – Field Precision



```
MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Systems Options Help

Command ==>
SAMPLE - Global Options

System Selection:
CICS APPLID . . . . . + Image . . . . . + Group . . . . . +
DB2 SSID . . . . . + Image . . . . . + Group . . . . . +
MQ SSID . . . . . + Image . . . . . + Group . . . . . +
Logger . . . . . + Image . . . . . + Group . . . . . +

Report Formatting Options:
Print Lines per Page . . 60 (1-255)
Time Zone . . . . . (Blank for system default or -12 to +12 hours)
Date Delimiter . . . . . /
Time Delimiter . . . . . :
Precision . . . . . 4 (4-6)

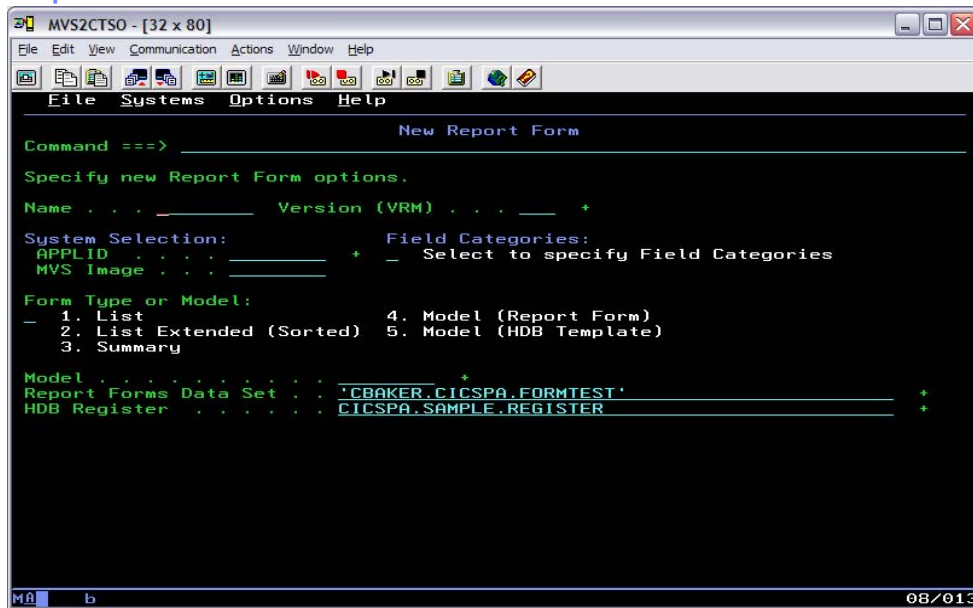
Má a 07/019
```

Report Form Enhancements

- Report Form Enhancements ...
 - ▶ Model a new Report Form from an HDB Template
 - Modelling a new Report Form from an HDB Template will allow the user to report (and extract to CSV) HDB data easier and with more reliability because the Report Form will mirror the data being collected
 - ▶ New Report Form "Select field categories" has been enhanced to make field group selection easier
 - ▶ New and updated sample Report Forms
 - More than 130 sample forms are now provided
 - Covering every aspect of CICS transaction activity and resource usage ...
 - CPU, Storage Usage, Request Analysis, ...
 - CICS RMI Analysis, Abend Analysis, DBCTL, SOAP for CICS, ...
 - Worst CPU, File, Temporary Storage, Transient Data usage, ...
 - Response Time Distribution, ...



Report Form Enhancements ...



```
MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Systems Options Help

Command ==> New Report Form

Specify new Report Form options.
Name . . . _____ Version (VRM) . . . ____ +
System Selection: _____ Field Categories:
APPLID . . . . . + _ Select to specify Field Categories
MVS Image . . . . .

Form Type or Model:
- 1. List
  2. List Extended (Sorted) 3. Summary
  4. Model (Report Form)
  5. Model (HDB Template)

Model . . . . . +
Report Forms Data Set . . . 'CBAKER.CICSPA.FORMTEST' +
HDB Register . . . . . CICSPA.SAMPLE.REGISTER +

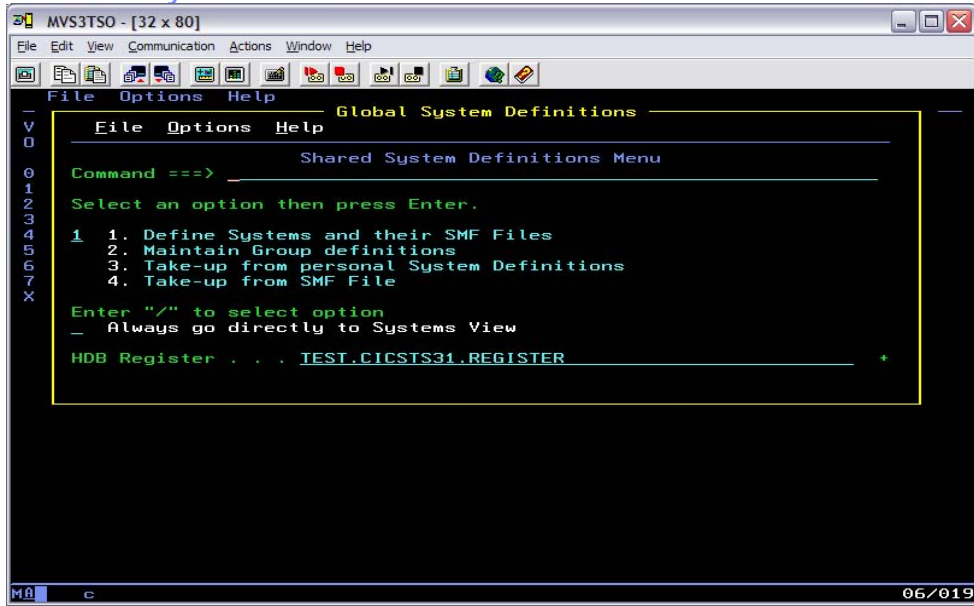
MA b 08/013
```

SMF File Management Enhancements

- Shared System Definitions
 - ▶ Provides the ability to share CICS system and related subsystem definitions
 - Based on Personal System Definitions and Groups
 - ▶ Shared System Definitions are saved in the HDB Register
 - Available to all users of the HDB Register
 - ▶ Take-up of Shared Definitions from Personal Definitions or an SMF data set
 - ▶ Use of Personal or Shared Definitions can be specified at report run-time



Shared System Definitions ...

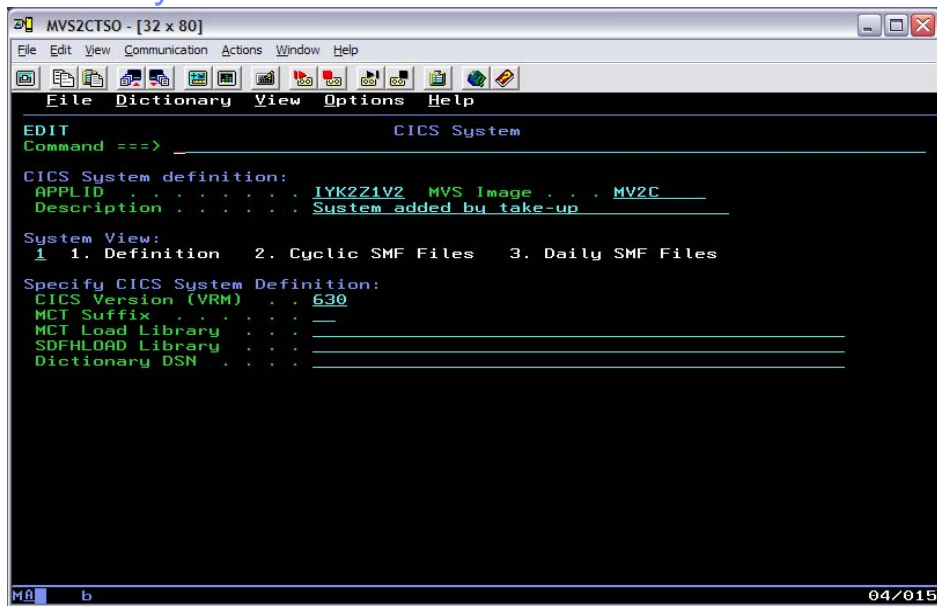


The screenshot shows a terminal window titled "MVS3TSO - [32 x 80]". The window has a menu bar with "File", "Options", and "Help". Below the menu bar is a toolbar with various icons. The main content area displays the following text:

```
Global System Definitions
File Options Help
-----
Shared System Definitions Menu
Command ==> _____
Select an option then press Enter.
1 1. Define Systems and their SMF Files
2 2. Maintain Group definitions
3 3. Take-up from personal System Definitions
4 4. Take-up from SMF File
X
Enter "/" to select option
_ Always go directly to Systems View
HDB Register . . . TEST.CICSTS31.REGISTER *
```

At the bottom left of the terminal window, there is a small icon and the letter "c". At the bottom right, the text "06/019" is displayed.

Shared System Definitions ...



```
MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Dictionary View Options Help

EDIT
Command ==> CICS System

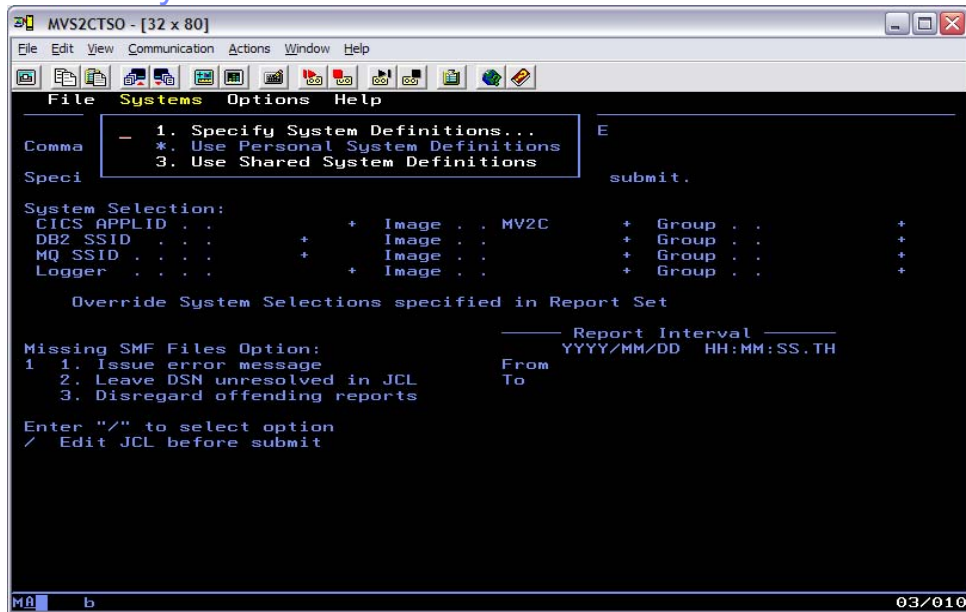
CICS System definition:
APPLID . . . . . IYK2Z1V2 MVS Image . . . MV2C_____
Description . . . . . System added by take-up

System View:
1 1. Definition 2. Cyclic SMF Files 3. Daily SMF Files

Specify CICS System Definition:
CICS Version (VRM) . . . 630
MCT Suffix . . . . .
MCT Load Library . . .
SDFHLOAD Library . . .
Dictionary DSN . . . . .

MA b 04/015
```

Shared System Definitions ...



```

MVS2CTSO - [32 x 80]
File Edit View Communication Actions Window Help
File Systems Options Help
Comma - 1. Specify System Definitions... E
        * Use Personal System Definitions
        3. Use Shared System Definitions
Speci submit.

System Selection:
CICS APPLID . . . + Image . . MV2C + Group . . +
DB2 SSID . . . + Image . . + Group . . +
MQ SSID . . . + Image . . + Group . . +
Logger . . . + Image . . + Group . . +

Override System Selections specified in Report Set

Missing SMF Files Option:
1 1. Issue error message
2 2. Leave DSN unresolved in JCL
3 3. Disregard offending reports

Enter "/" to select option
/ Edit JCL before submit

Report Interval
YYYY/MM/DD HH:MM:SS.TH
From
To

03/010
  
```

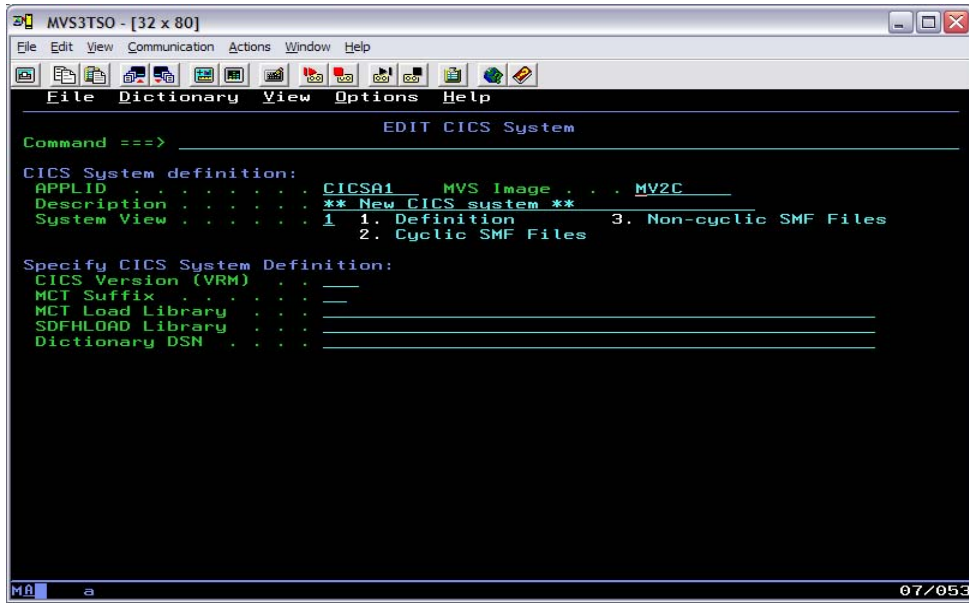
At Report Set RUN time you can select whether to use Personal or Shared System Definitions from the Systems Pull Down menu in the action bar.

SMF File Management Enhancements ...

- Automated SMF File Selection
 - ▶ Provides time-based SMF file selection for reporting purposes
 - Removes the requirement to explicitly specify SMF file data set names
 - ▶ Shared System Definitions provide two new SMF file types ...
 - Cyclic ...
 - GDG data set definitions for multiple generations of periodic SMF data
 - For example – daily, weekly, or monthly SMF files
 - Daily ...
 - Daily SMF files are built from the SMF dump process
 - Contain data for a particular period of time during the current day
 - Expired daily SMF files are removed from the Register via the HDB Housekeeping process



SMF File Management Enhancements ...



```
MVS3TSO - [32 x 80]
File Edit View Communication Actions Window Help
File Dictionary View Options Help

EDIT CICS System
Command ==>

CICS System definition:
APPLID . . . . . CICS01  MVS Image . . . MV2C
Description . . . . . ** New CICS system **
System View . . . . . 1  1. Definition      3. Non-cyclic SMF Files
                   2. Cyclic SMF Files

Specify CICS System Definition:
CICS Version (VRM) . . . . .
MCT Suffix . . . . .
MCT Load Library . . . . .
SDFHLOAD Library . . . . .
Dictionary DSN . . . . .

MA a 07/053
```

Report Set and ISPF Dialog Enhancements

- Report Set Enhancements ...
 - ▶ One or more HDB Load requests can be specified in a Report Set
 - Allows HDB load requests to be more easily included into daily CICS PA reports and extracts
 - Allows the user to run their reports and produce historical data in a single pass of the SMF file
- ISPF Dialog Enhancements ...
 - ▶ FIND command is now available for selected member lists ...
 - Report Sets, Report Forms, Sample Report Forms, and Object Lists



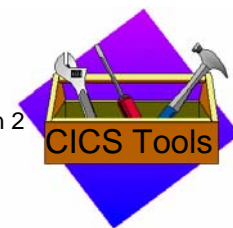
Other Enhancements

- Record Selection Extract Enhancements
 - ▶ Now supports all SMF record types, not just CMF performance class records
 - CICS CMF Exception and Resource class records
 - CICS Statistics and CICS Server Statistics
- NLS and Globalization Enablement
 - ▶ CICS PA ISPF Dialog is enabled for NLS and Globalization support



Summary

- CICS Performance Analyzer for z/OS
 - ▶ Comprehensive Performance Reporting for CICS
 - Including DB2, WebSphere MQ, and MVS System Logger
 - ▶ CICS Monitoring Facility (CMF) and CICS Statistics SMF 110 data
 - ▶ Extensive Tabular Reports and Extract Data Sets
 - ▶ Historical Database
 - Trending and Capacity Planning
 - ▶ ISPF Dialog to build, maintain, and submit reports and extracts
- CICS PA Version 1.4 - Product information ...
 - ▶ Program Product - 5655-F38
 - ▶ Releases Supported ...
 - CICS Transaction Server for z/OS, Version 3 and Version 2
 - CICS Transaction Server for OS/390, Version 1
 - ▶ More Information
 - <http://www.ibm.com/cics/>



So to summarize:-

The CICS Performance Analyzer for z/OS provides a comprehensive Performance Reporting tool for CICS and related subsystems. It includes many reports and extracts, including DB2, WebSphere MQ, and the MVS System Logger.

CICS PA Version 1 Release 4 was announced on the 22nd February 2005 and is generally available on the 18th March 2005.

CICS PA Version 1.4 supports CICS Transaction Server for z/OS Version 3 and Version 2, CICS Transaction Server for OS/390 Version 1, as well CICS for MVS/ESA Version 4.1.

References

CICS Performance Analyzer for z/OS User's Guide, SC34-6307
CICS Performance Analyzer for z/OS Report Reference, SC34-6308

CICS Performance Analyzer Release 3, SG24-6063

Tivoli Decision Support Accounting Workstation for z/OS User Guide, SH19-4516

