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Investigating CICS Performance Issues using CICS PA for z/OS: Session 1945.

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Presentation Overview

- What is CICS Performance Analyzer ?
- CICS PA Plug-in Updated
- CICS Transaction Server for z/OS Version 4.1 Support
- Statistics Alert Reporting
- CICS Transaction Gateway for z/OS V7.2 Support
- CICS PA Version 2.1 Enhancements incorporated
 - Application Grouping,
 - Reporting Enhancements, ...
- Summary
- PA Explorer plug-in demo

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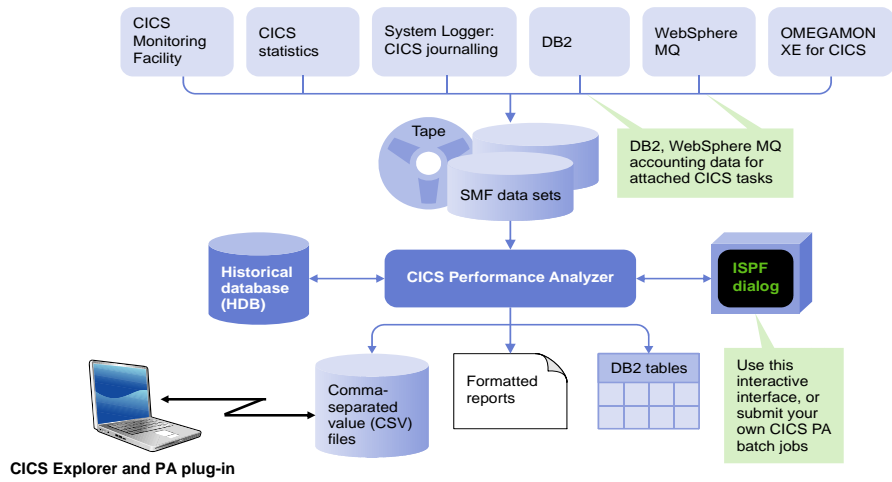
What is CICS PA ?

- CICS Performance Analyzer for z/OS
 - Comprehensive Performance Reporting and Analysis for CICS
 - CICS Monitoring Facility (CMF) data (SMF 110)
 - Performance, Resource, and Exception Class
 - CICS Statistics data (SMF 110)
 - CICS Server Statistics data (SMF 110)
 - DB2 Accounting records (SMF 101)
 - WebSphere MQ Accounting records (SMF 116)
 - OMEGAMON XE for CICS records (SMF 112)
 - z/OS System Logger (SMF 88)
- Complements ...
 - Tivoli OMEGAMON XE for CICS on z/OS
 - Standard CICS utilities – such as DFHSTUP and DFH0STAT

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CICS PA Overview



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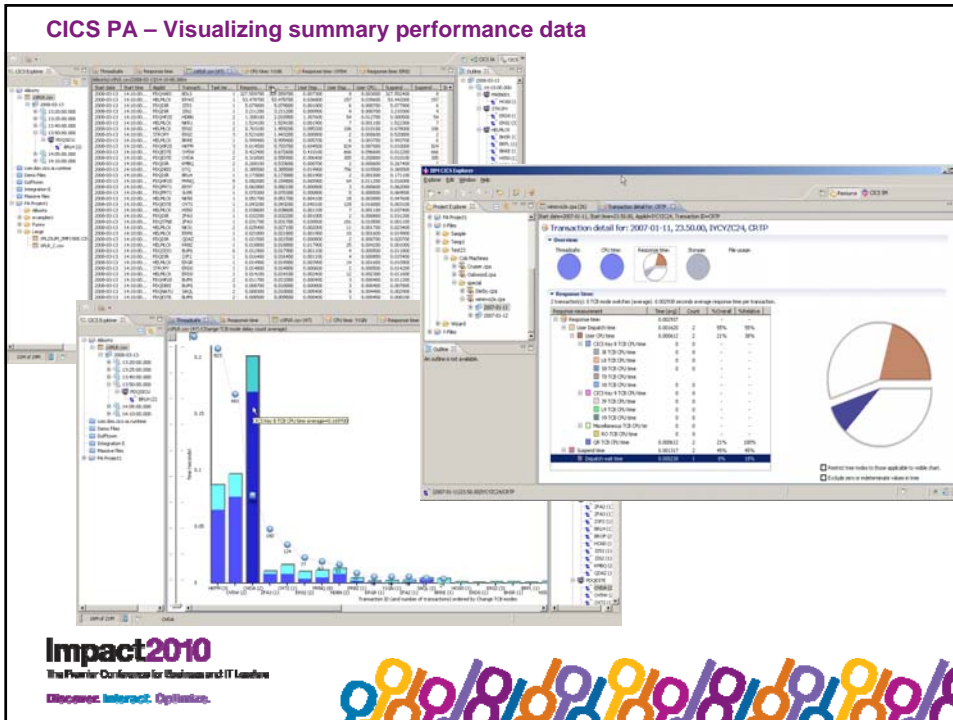
CICS PA Plug-in Updated

- Provides numerous methods of visualizing historical transaction summary performance data
- Access to performance data summaries and reporting scenarios using CICS PA created ...
 - CSV files from SMF 110 performance data
 - CSV files or database (DB2) from HDB performance data
- Integrates with the strategic CICS Explorer and other tooling plug-ins

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CICS PA – Visualizing summary performance data



CICS PA – Sheet view of summary performance data

- Presents all of the selected data in tabular form
- Allows sorting, sub-selections, reordering of columns

The screenshot shows the 'Sheet view' of the performance data. The table is sorted by 'Response time average' and filtered for the date '2007-01-12'.

Start date	Start time	Applid	Transacti...	Task ter...	Response time average	User Disp...	User Disp...
2007-01-12	00.05.00	INCVZ21	CSOL	0	1,887.437559	2	0.001944
2007-01-12	00.05.00	INCVZ23	CSOL	0	1,887.437082	2	0.001112
2007-01-12	00.05.00	INCVZ22	CSOL	0	1,887.437043	2	0.001112
2007-01-12	00.05.00	INCVZ20	CSOL	0	1,887.436902	2	0.001112
2007-01-12	00.05.00	INCVZ23	CRTP	2	0.009964	2	0.003789
2007-01-12	00.05.00	INCVZ22	CRTP	2	0.003100	2	0.001616
2007-01-12	00.05.00	INCVZ24	CRTP	2	0.003152	2	0.002118
2007-01-12	00.05.00	INCVZ20	CRTP	3	0.002981	2	0.001941
2007-01-12	00.05.00	INCVZ21	CRTP	3	0.002973	2	0.001579
2007-01-12	00.05.00	INCVZ23	CCVC	2	0.002528	2	0.001816
2007-01-12	00.05.00	INCVZ23	CCWH	2	0.002310	1	0.001744
2007-01-12	00.05.00	INCVZ22	CNAK	1	0.001016	1	0.000992

This example shows a sub-selection made for a particular date sorted by Response time average

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CICS Transaction Server for z/OS Version 4.1 Support

- Support and exploitation of all new CICS SMF 110 data
- Monitoring Data ...
 - Web, Web Services, WS-Addressing, Event Processing
 - IPv6, XML System Services, JVM Server, Dispatcher
- New metrics and reports also support performance analysis of other key CICS TS V4.1 enhancements, including ...
 - Event Processing, Atom feeds
 - Data Mapping Conversion, Web Services Addressing
- New sample report forms are provided to support the new performance data metrics provided by CICS TS V4.1 enabling improved reporting of CICS applications

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CICS Transaction Server for z/OS Version 4.1 Support ...

CPU4LEXT LIST	CPU Analysis and Extract (V4)	2009/02/16 09:15	CBAKER
CPU4SEXT SUMMARY	CPU Analysis and Extract (V4)	2009/02/16 09:18	CBAKER
EPEC4LST LIST	CICS Event Capture Activity (V4)	2009/02/19 13:33	CBAKER
EPEC4LSX LISTX	CICS Event Capture Top 20 (V4)	2009/02/19 13:33	CBAKER
EPEC4SUM SUMMARY	CICS Event Capture Activity (V4)	2009/02/19 13:33	CBAKER
EPEC4SUI SUMMARY	Event Capture by Time-of-Day (V4)	2009/02/19 14:31	CBAKER
TCB4LST LIST	CICS TCB Usage and Delays (V4)	2009/02/16 10:38	CBAKER
TCB4SUM SUMMARY	CICS TCB Usage and Delays (V4)	2009/02/16 10:40	CBAKER
WBAT4SUM SUMMARY	URIMAP ATOMSERVICE Analysis (V4)	2009/02/19 14:11	CBAKER
WBPG4SUM SUMMARY	URIMAP PROGRAM Analysis (V4)	2009/02/19 14:11	CBAKER
WBPL4SUM SUMMARY	URIMAP PIPELINE Analysis (V4)	2009/02/19 14:11	CBAKER
WBSV4LST LIST	CICS INVOKE SERVICE Usage (V4)	2009/02/17 08:39	CBAKER
WBSV4SUM SUMMARY	CICS INVOKE SERVICE Usage (V4)	2009/02/17 08:40	CBAKER
WBUR4LST LIST	Web URIMAP Usage Analysis (V4)	2009/02/19 13:38	CBAKER
WBUR4SUM SUMMARY	Web URIMAP Usage Analysis (V4)	2009/02/19 13:38	CBAKER
WBWS4SUM SUMMARY	URIMAP WEBSERVICE Analysis (V4)	2009/02/19 14:12	CBAKER

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CICS Transaction Server for z/OS Version 4.1 Support ...

- Statistics Data ...
 - Event Processing, IPv6, JVM Server, CICS Dispatcher, ...
 - Web and Web Services ...
 - Urimap, Pipeline, Webservice, Atomservice, Xmltransform
 - Ipconn, DB2Conn, DB2Entry, MQConn, ...
 - Resource Definition/Install Signature ...
 - Combines the installation and definition signatures providing specific information for resource definitions that were installed or changed in CICS TS V4.1
 - Users will be able to use these improved details to detect resource modifications for auditing, tracking, or problem resolution purposes

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CICS Transaction Server for z/OS Version 4.1 Support ...

```
MVSZCTS0 - [32 x 80]
File Edit Options View Help
REPORT                               Statistics Reports                               Line 1 of 23
Command ==>                           Scroll ==> PAGE
System: IYK2Z1V2/MV2C                 Type: REQ   Interval: 2009/04/23 15:45:00 Thursday

---
** Reports **                          Size
+ --- Regions                          525
+ --- Connectivity                       45
+ --- Files and Databases                 53
+ --- Logging                            6
+ --- Queues                             63
+ --- Transactions                       330
+ --- Programs                          5,263
- --- Event Processing                    2
    --- Event Capture                     1
    --- EVENTBINDING Resources            0
    --- Event Processing                   1
    --- CAPTURESPEC Resources             0
- --- CICS Web Support                   163
    --- URIMAP Global                      1
    --- URIMAP Resources                   73
    --- PIPELINE Resources                 14
    --- WEBSERVICE Resources              58
    --- DOCTEMPLATE Resources             15
    --- ATOMSERVICE Resources            1
    --- XMLTRANSFORM Resources            1
+ --- Java and Enterprise Java            27
+ --- Miscellaneous                       10
+ --- CICS Server                          0
** End of Reports **

MR b                                     04/015
```

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CICS Transaction Server for z/OS Version 4.1 Support ...

MVSZCTSO - [32 x 80]
File Edit Form Options Help

REPORT ATOMSERVICE Resources Line 00000001 Col 005 010 < >
Command ==> Scroll ==> PAGE

System: IYK2Z1V2/MV2C Type: REQ Interval: 2009/04/23 15:45:00 Thursday

Atomservice Name	Atomservice ResType	Atomservice ResName	Reference Count	Reference Disabled	POST Issued for Feed
APPFILEA	FILE	FILEA	0	0	0

MR b 04/015

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CICS Transaction Server for z/OS Version 4.1 Support ...

MVSZCTSO - [32 x 80]
File Edit Form Options Help

REPORT PROGRAMDEF Resources Line 00000925 Col 019 024 < >
Command ==> Scroll ==> PAGE

System: IYK2Z1V2/MV2C Type: REQ Interval: 2009/04/23 15:45:00 Thursday

Program Name	Change User ID	Change Agent	Install Agent	Install Time	Install User ID	
DFHD2CM3	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHD2EDF	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHD2EX1	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHD2EX2	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHD2INI	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHD2PXT	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHD2RP	15.41.44	CBAKER	SYSTEM	SYSTEM	2009-04-23-15.41.44	CBAKER
DFHECBAM	16.24.57	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHECEAM	15.41.44	CBAKER	SYSTEM	SYSTEM	2009-04-23-15.41.44	CBAKER
DFHECEAS	15.41.44	CBAKER	SYSTEM	SYSTEM	2009-04-23-15.41.44	CBAKER
DFHECEAT	15.41.44	CBAKER	SYSTEM	SYSTEM	2009-04-23-15.41.44	CBAKER
DFHECID	16.24.55	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHECTP	16.24.55	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHECRP	15.41.44	CBAKER	SYSTEM	SYSTEM	2009-04-23-15.41.44	CBAKER
DFHECSP	16.24.55	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHEDAD	16.24.58	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHEDAP	16.24.58	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHEDFBR	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHEDFD	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHEDFE	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER
DFHEDFM	16.24.54	CBAKER	DFHCS DUP	GRPLIST	2009-04-23-15.41.45	CBAKER

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Statistics Alert Reporting

- Wealth of information contained in the CICS statistics data
 - Information value dependent on ...
 - Frequency of the CICS Statistics data collection
- Customers cannot analyze CICS statistics data every day
 - Missed tuning opportunities
 - Missed or Ignored Trends ...
 - May lead to poor CICS system performance
 - If left uncorrected – may lead to system outages!

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Statistics Alert Reporting ...

- Alert Definition
 - Defined with arithmetic formula using CICS statistics field names
 - Up to three threshold values indicate the severity ...
 - Critical, Information, Warning
 - For example ... a condition can trigger an alert when ...
 - the number of CICS tasks exceeds a percentage of the maximum number of tasks allowed
 - the number of transaction dumps is greater than zero
 - the number of VSAM file string waits is greater than zero
 - Possible to limit the reporting to specific CICS resources
 - Specific Files, Transaction Classes, Connections, ...

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Statistics Alert Reporting ...

- Alert Definition
 - Sample Alert Definitions
 - Warning, Information
 - Apply best practices by helping to identify out-of-line conditions
- Report Types
 - List ...
 - Applid, Alert, Collection Time, Interval, Resource
 - Summary ...
 - Applid, Alert
- Reporting
 - From SMF data – in Report Sets
 - From HDBs



Statistics Alert Reporting ...

- Reporting ...
 - Allows you to easily identify which systems require attention
 - Types of problems that are occurring, when and how often
 - Is the same Alert occurring on multiple systems?
 - Are Alerts being triggered by Sympathy Sickness?
 - Help identify systems affected
 - Help identify even minor knock-on effects ...
 - Might even be a different Alert type
 - Allows preventative action to be taken before it becomes more serious



Statistics Alert Reporting ...

- Use the CICS PA Online Statistics Reporting
 - Further In-Depth Analysis
- Reporting Value Dependent on ...
 - Frequency of the CICS Statistics data collection
 - More frequent collection will permit more accurate analysis of exactly when problems are occurring
 - i.e. During peak hour(s)
 - Customers may need to review their CICS Statistics Data Collection Parameters ...
 - STATRCD, STATINT, ...



Statistics Alert Reporting ...

```
MVSZCTSO - [32 x 80]
File Systems Options Help
ALERT - Statistics Alert Report
Command ==>
System Selection:
APPLID . . . . . +
Image . . . . . MW2C . . . . . +
Group . . . . . +
Alert . . . . . SAMPLES . . . . . +
Report Sorted By:
1 1. APPLID
2. Alert
3. Collection Time
4. Statistics Interval
5. Resource
Report Type (APPLID and Alert only):
/ List _ Summary
Report Output:
DDname . . . . . STAL0001
Print Lines per Page . . . . . (1-255)
Report Format:
Title . . . . .
Filter Criteria:
Type . . . . . / EOD / INT / USS / REQ / RRT
HDB Register . . . . . CBAKER.CICSPA.TEST.REGISTER
MB b 04/015
```



Statistics Alert Reporting ...

```

MVS2CTSO - [32 x 80]
File Edit Lists Options Help
EDIT Statistics Alert Definition - SAMPLES Row 4 of 197 More: >
Command ==> Scroll ==> PAGE
Description . . . Sample Statistics Alerts
Specify the Conditions for this Alert Definition.
- Alert      System dumps requested
  Formula    SYS_DUMPS TAKEN
  Critical   Warning >0 Info List
  Resource   APPLID
-----
- Alert      Maximum tasks reached
  Formula    XMGTA MXI
  Critical   Warning >0 Info List
  Resource   APPLID
-----
- Alert      Peak tasks (% of maximum tasks)
  Formula    XMGPAI / XMG MXI * 100
  Critical   Warning Info >=90 List
  Resource   APPLID
-----
MF b 04/015
  
```



Statistics Alert Reporting ...

V3R1M0 CICS Performance Analyzer
Statistics Alerts - List by APPLID

STAL0001 Printed at 13:30:41 4/14/2009 Data from 12:16:06 4/14/2009 to 12:58:27 4/14/2009 Page 1

System: CICS000 Image: CTS1 VRM: 660 Type: TS

Sev	Alert	Threshold	Actual	Collection Time	Type
W	Transaction dumps requested	>0	3	2009-04-14 12.30.45	EOD
W	Transaction dumpcode taken	>0	1	2009-04-14 12.30.45	EOD
	Dump Code = ASP2				
W	Transaction dumpcode taken	>0	1	2009-04-14 12.30.45	EOD
	Dump Code = AZI4				
W	Connection allocates failed (link): system	>0	6	2009-04-14 12.30.45	EOD
	Connection Name = C0C1				
W	Connection allocates failed (link): system	>0	208	2009-04-14 12.30.45	EOD
	Connection Name = C0C2				
W	Connection allocates failed (link): system	>0	5	2009-04-14 12.58.26	EOD
	Connection Name = C0C1				
W	Connection allocates failed (link): system	>0	34	2009-04-14 12.58.26	EOD
	Connection Name = C0C2				
W	Maximum active transactions in class reached	>0	329	2009-04-14 12.58.26	EOD
	Tclass Name = DFHTCL02				

System: CICS001 Image: CTS1 VRM: 660 Type: TS

Sev	Alert	Threshold	Actual	Collection Time	Type
W	Program load requests that waited	>0	3	2009-04-14 12.51.54	EOD
W	System dumps requested	>0	1	2009-04-14 12.51.54	EOD
W	Transaction dumps requested	>0	1	2009-04-14 12.51.54	EOD
W	Transaction dumpcode taken	>0	1	2009-04-14 12.51.54	EOD
	Dump Code = AEIP				
W	Transaction dumpcode taken	>0	48	2009-04-14 12.51.54	EOD
	Dump Code = ASRA				



CICS PA Version 2.1 Enhancements incorporated

- CICS PA Version 2.1 Enhancements incorporated
 - Application Grouping
 - Allows users to consolidate and view transaction performance information for related CICS tasks as a logical business unit rather than by individual transaction IDs
 - Reporting Enhancements ...
 - Cross-System Work Report
 - ListX Report Enhancements – User Fields
 - DB2 Report Enhancements – Parallel Thread support
 - Additional sample Report Forms
 - Time Precision – PRECISION setting for START/STOP fields

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Application Grouping

- Application Grouping is a facility that allows users to consolidate and view transaction performance information for related CICS tasks as a logical business unit rather than by individual transaction IDs
- Using Application Grouping ...
 - CICS transactions that belong to the same business unit are reported together under their application name
 - For example you can define an Application Group that groups all Finance transactions together under the FINANCE application name

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Application Grouping ...

```
MVS2CTSO - [32 x 80]
File Options Help
Application Grouping
File Options Help
Application Grouping Menu
Command ==>
Select an option then press Enter.
1 1. Application Groups
2 2. Resource Lists
HDB Register . . . . . CICSPA_TEST_REGISTER
MFB b 06/019
```

From the Application Grouping Menu you can define either Application Groups or Resource Lists.

In CICS PA V3.1 Shared Object Lists have been renamed Resource Lists.



Application Grouping ...

```
MVS2CTSO - [32 x 80]
File Options Help
Application Groups
Row 1 to 2 of 2
Scroll ==> PAGE
Command ==>
Select to edit Application Group (APG). Enter NEW command to define a new APG.
/ Name Description Changed ID
S PRODAPPL Production Applications 2008/06/02 22:05 CBAKER
_ TESTAPPL Test System Applications 2008/06/02 22:08 CBAKER
***** Bottom of data *****
MFB b 09/004
```

Select an Application Group from the list or define a New Application Group.



Application Grouping ...

```

MVS2CTSO - [32 x 80]
File Edit Options Help
EDIT Application Group - PRODAPPL Row 1 to 3 of 3
Command ==> Scroll ==> PAGE
Description . . . Production Applications
Resource field . . IRAN + User field offset Length
Specify the Application names and their resource values.

/ Application Name Values Resources Object List +
- CICS Supplied Transactions CICSTRAN
- Customer Service CUSTSERV
- No Match *
***** Bottom of data *****
    
```

To define a New Application Group specify the Resource field whose values will define the applications, such as CICS transaction ID (TRAN).



Application Grouping – Report Form ...

```

MVS2CTSO - [32 x 80]
File Edit Confirm Upgrade Profiling Options Help
EDIT SUMMARY Report Form - APPLGRP1 Row 1 of 12 More: >
Command ==> Scroll ==> PAGE
Description . . . Application Grouping Example 1 Version (VRM): 650
Selection Criteria: Page width . . 132
- Performance
Field Name + K 0 Type Fn Description
/ PRODAPPL K 0 APG Application Group
TASKCNT Total task count
RESPONSE AVE Transaction response time
DISPATCH TIME AVE Transaction response time
CPU TIME AVE CPU usage
SUSPEND TIME MAX Suspended time
DISPWAIT TIME MA Dispatch wait time
EOX
*****
    
```

Add the Application Group to a Report Form by inserting a new field in the Form, then specify the Application Group name in the 'Field Name' column and APG in the 'Type' column. Note: That the Application Group field will require up to a maximum of 32 characters in the output report.



Application Grouping ...

- Performance Summary Report ...
 - Using the Application Grouping Report Form from previous slide

V2R1M0 CICS Performance Analyzer
Performance Summary

SUMM0001 Printed at 16:33:57 7/21/2008 Data from 11:10:29 2/04/1999 to 08:10:06 2/16/1999 Page 1

PRODAPPL Group	#Tasks	Avg Response Time	Max Response Time	Avg Dispatch Time	User CPU	Avg User CPU	Max User CPU	Avg Suspend Time	Max Suspend Time	Avg DispWait Time
Customer Service	1471	.6697	158.9171	.0134	.0100	1.3336	.6563	158.6596	.0006	
CICS Supplied Transactions	782	39.6023	1887.438	26.6069	.0139	3.1676	12.9954	1385.297	.0112	
No Match	70	.8566	8.2455	.0096	.0032	.0099	.8470	8.2300	.0012	
Total	2323	13.7814	1887.438	8.9656	.0111	3.1676	4.8158	1385.297	.0042	

- Notice the “No Match” grouping ...
 - This means that there were transaction IDs that did not match any of the specified values in the Application Group definitions



Application Grouping – Report Form ...

```

MVS2CTSO - [32 x 80]
File Edit Confirm Upgrade Profiling Options Help
EDIT SUMMARY Report Form - APPLGRP2 Row 1 of 13 More: >
Command ==> Scroll ==> PAGE
Description . . . Application Grouping Example 2 Version (VRM): 650
Selection Criteria:
_ Performance Page width . . . 132_

Field Sort
/ Name + K 0 Type Fn Description
---
PRODAPPL K A APG Application Group
IRAN K A Transaction identifier
TASKCNT Total Task count
RESPONSE AVE Transaction response time
RESPONSE AVE Transaction response time
DISPATCH TIME Transaction dispatch time
CPU TIME AVE
CPU TIME MAX
SUSPEND TIME
SUSPEND TIME
DISPWAIT TIME
EOX
*****

```

In this second Report Form example, the Transaction ID has been added as a secondary key. When used in a Performance Summary Report this form could be used to help determine which transactions are falling into a “no match” so that they can be identified and included in their correct application name.



Reporting Enhancements ...

- Cross-System Work Report
 - End of unit-of-work marker
- ListX Report Enhancements – User Fields ...
 - Such as OMEGAMON or DBCTL, now available as sort keys
- DB2 Report Enhancements
 - Parallel Thread support
- Additional sample Report Forms ...
 - BADCHMDS – Top 20 worst Change modes by Transaction ID
- Time Precision ...
 - New Format Type for START/STOP fields – TIMEP
 - Use the Report Set PRECISION setting for START/STOP fields

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Summary

- CICS PA Plug-in Updated
- CICS Transaction Server for z/OS Version 4.1 Support
- Statistics Alert Reporting Enhancements
- CICS Transaction Gateway for z/OS V7.2 Support
- CICS PA Version 2.1 Enhancements Incorporated
 - Application Grouping, Reporting Enhancements
- CICS PA Version 3.1 – Product information ...
 - Program Product – 5655-U87
 - Releases Supported ...
 - CICS Transaction Server for z/OS, Version 3 and Version 2
 - More Information ...
 - <http://www.ibm.com/cics/tools/>

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CICS Tools Sessions

Session 1944 - Application Analysis using the Command Flow feature in CICS IA for z/OS

Venetian – San Polo 3506
Tuesday , 3:15pm

Session 1945 - Investigating CICS Performance Issues using CICS PA for z/OS

Venetian – Murano 3203
Tuesday , 4:45pm

Session 1958 - Change Management and Deployment Analysis using CICS CM for z/OS

Venetian – Murano 3204
Wednesday , 3:15pm

Session 2925 - Lab: Understanding your Applications using the CICS Tools Explorer Plug-ins

Venetian – Murano 3304
Tuesday , 4:45pm

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References

CICS Performance Analyzer for z/OS User's Guide, SC34-7046
CICS Performance Analyzer for z/OS Report Reference, SC34-7047

CICS Customization Guide, SC34-7001
CICS Resource Definition Guide, SC34-7000
CICS Performance Guide, SC34-7033
CICS TG for z/OS V7.1: z/OS Administration, SC34-6754
Tivoli OMEGAMON II for CICS Configuration and Customization Guide, GC32-1981

z/OS V1R9.0 MVS System Management Facilities (SMF), SA22-7630
z/OS V1R6.0 JCL User's Guide, SA22-7598
z/OS V1R8.0 DFSMS Access Method Services for Catalogs, SC26-7394
z/OS V1R9.0 MVS Setting Up a Sysplex, SA22-7625

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References

Redbooks:

CICS Performance Analyzer, [SG24-6063-00](#)
Threadsafe considerations for CICS, [SG24-6351-03](#)
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