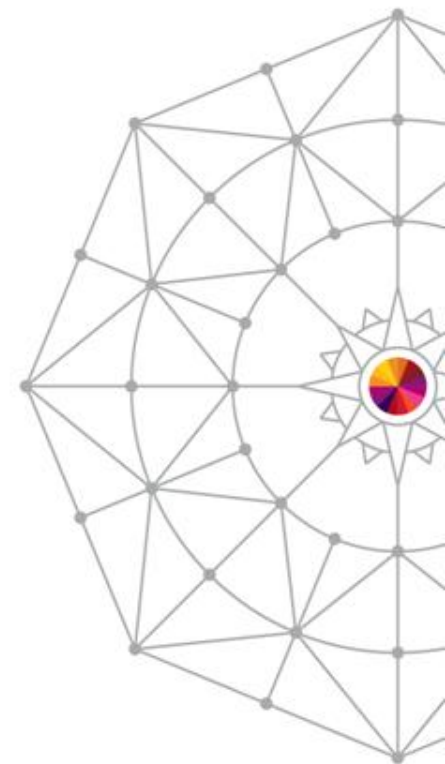


Learn the Latest Problem Solving Solutions for z/OS and Storage Subsystems with OMEGAMON

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Session
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Agenda

- OMEGAMON XE on zOS v5.3 overview
- OMEGAMON XE for Storage on zOS v5.3 overview
- OMEGAMON XE on zOS v5.3 details
- OMEGAMON XE on zOS v5.3 problem solving
- Summary

Performance Management Suite

IBM Tivoli Performance Management Suite for z/OS V5.3 and the IBM Tivoli OMEGAMON z/OS Management Suite V5.3 can help provide cost savings and greater effectiveness while helping you meet your Service Level Agreements by:

- Delivering new Enhanced 3270 User Interface (Enhanced 3270UI) history capability, increased integration, and enhanced install, configuration, and customization capabilities.
- Offering the ability to quickly identify problem situations.
- Isolating and addressing problems quickly.
- Improving resource utilization to maximize investment.
- Improving personnel interaction for better synergy and efficiency.
- Reducing outages or delays.
- Customizing the enhanced user interface based on the scope and control of your day-to-day job.
- Expanding solution throughout IBM z/OS platform.



OMEGAMON XE on z/OS v5.3

z/OS Availability and Performance management Tool



- Overall z/OS Sysplex, LPAR and workload management capabilities providing Availability, Performance, and Workload views to **maximize efficiency and effectiveness**
- **Greater problem determination** for z/OS Subject Matter Experts can use the Near-Term-History displays in Enhanced 3270 UI using RMF Monitor III collection to glance back to see the start of performance problems for recent issues.
- **Reduced time-to-resolution** of problems with new improved Enhanced 3270 User Interface workspaces including embedded data from CICS and z/OS for applications monitoring
- **Increased ability to deliver service to your user base** with new zAware information workplaces and alerts through Enhanced 3270UI and IBM Tivoli Enterprise Portal (TEP).

OMEGAMON XE on zOS v5.3

increased problem determination capability

- Near-Term-History for critical zOS attribute groups from RMF Monitor III presented directly in the Enhanced 3270 User Interface
- Summary and detail workspaces support historical problem determination and trending analysis for the following objects:
 - Address Space CPU Usage and Delays
 - zOS Common Storage Usage
 - CPC LPAR Summary and Details
 - WLM Service Classes:
 - Performance Index
 - Resource Usage History
 - Device Resource History
 - Device Job Summary
 - Real Storage Usage History
 - Storage Details



OMEGAMON XE on zOS v5.3

increased problem determination capability

- Understand information related to when the problem began with Enhanced 3270 User Interface Near-Term-History

- Easily see when a CPC CPU busy is very high and select for details

| Recording Date/Time | CPC Serial Number | Physical Standard CP | % CP |
|---------------------|-------------------|----------------------|------|
| 14/07/09 09:10:00 | 0FBAA6 | | 83.0 |
| 14/07/09 09:10:00 | 094E15 | | 91.1 |
| 14/07/09 09:05:00 | 094E15 | | 89.3 |
| 14/07/09 09:05:00 | 0FBAA6 | | 82.5 |
| 14/07/09 09:00:00 | 094E15 | | 85.0 |
| 14/07/09 08:55:00 | 0FBAA6 | | 82.6 |
| 14/07/09 08:55:00 | 094E15 | | 83.7 |
| 14/07/09 08:50:00 | 0FBAA6 | | 74.8 |
| 14/07/09 08:50:00 | 094E15 | | 88.0 |
| 14/07/09 08:45:00 | 0FBAA6 | | 83.9 |
| 14/07/09 08:45:00 | 094E15 | | 88.3 |
| 14/07/09 08:40:00 | 0FBAA6 | | 88.0 |
| 14/07/09 08:40:00 | 094E15 | | 90.1 |
| 14/07/09 08:35:00 | 0FBAA6 | | 92.6 |
| 14/07/09 08:35:00 | 094E15 | | 87.7 |
| 14/07/09 08:30:00 | 0FBAA6 | | 84.3 |
| 14/07/09 08:30:00 | 094E15 | | 84.3 |

| ΔJob Name | ΔASID | Service Class | ΔSMF ID | ΔVelocity Percentage | ∇Total Delay Percentage | ΔTotal Using Percentage | ΔTotal CPU Wait Percentage |
|-----------|-------|---------------|---------|----------------------|-------------------------|-------------------------|----------------------------|
| HWSZ1 | 0041 | DISCRBAT | Z1 | 0 | 85 | 0 | 0 |
| CICSS3A1A | 01A6 | CI2V60 | Z1 | 69 | 37 | 83 | 37 |
| ISSBJBP1 | 003D | DISCRBAT | Z1 | 8 | 36 | 3 | 36 |
| CICSCA1A | 01A3 | CI2V60 | Z1 | 49 | 35 | 33 | 35 |
| ZFSV15B1 | 0043 | DISCRBAT | Z1 | 34 | 34 | 18 | 34 |
| DFHSM | 0201 | SYSSTC | Z1 | 83 | 29 | 100 | 12 |
| ZFSV1521 | 0042 | DISCRBAT | Z1 | 67 | 26 | 55 | 26 |
| CSQ1MSTR | 016A | STCI2V40 | Z1 | 70 | 20 | 41 | 19 |
| ZFS | 0022 | SYSSTC | Z1 | 83 | 16 | 66 | 11 |
| U0200026 | 0323 | DISCOMVS | Z1 | 13 | 14 | 2 | 14 |
| DBX1DIST | 016E | DDF | Z1 | 61 | 14 | 22 | 14 |
| U0200017 | 019D | DISCOMVS | Z1 | 25 | 13 | 4 | 13 |

Effortlessly explore data around when a CPU busy occurred

OMEGAMON XE on zOS v5.3

reduced time-to-resolution of problems

- Directly access z/OS address space monitoring data in Enhanced 3270 User Interface workspaces for both MQ MSTR and CHIN

```

File Edit View Tools Navigate Help 05/20/2014 19:34:54
Auto Update : Off
Command ==> HostName : SP22
KMQQMSZD Queue Manager Address Space Q721MSTR QmgrName : Q721

Queue Manager Monitoring Information
QMgr Subsys..... Q721 QMgr Type..... MVS
Status at Sample Interval. Active Interval Length Seconds... 300.00
Timeout Count..... 0 MQSeries Release..... 7.0.1
Start Date..... 14/05/18 Alter Date..... 14/05/18
Start Time..... 09:12:59 Alter Time..... 09:13:01

z/OS Address Space CPU Details for Q721MSTR 0x00F2
Job Name..... Q721MSTR
ASID..... 00F2
Type..... STC
JESJOBID..... STC05789
Step Name..... Q721MSTR
Proc Step..... PROCSTEP
IO per Second..... 0.0
CPU Percent..... 0.0
IFA Percent..... 0.0
SRB Percent..... 0.0
TCB Percent..... 0.0
zIIP Percent..... 0.0
CPU Percent Excluding Home SRB Time..... 0.0

IFA on CP Percent..... 0.0
zIIP on CP Percent..... 0.0
IFA Percent With Enclave Home SRB Time..... 0.0
zIIP Percent With Enclave Home SRB Time..... 0.0
Job CPU Percent..... 0.1
Job SRB Percent..... 0.1
Job TCB Percent..... 0.1
Job CPU Time..... 117.45
Job SRB Time..... 5.36
Job TCB Time..... 112.09
Job Preemptable Home SRB Service Time..... 0.00
Job Preemptable Home SRB Service Percent..... 0.0
Job Additional SRB Service Time..... 0.00

```

- Zoom from MQ Current Queue Manager Status to this workspace with z/OS CPU monitoring data
- Zoom on Job Name for direct access to the following z/OS options:

```

M5MQASZ Navigation Options for Address Space Q
Select an action and then press ENTER

- 1. ! Take Action on Address Space
  2. C - Cancel Address Space
  3. A Address Space Bottlenecks Summary
  4. B Bottleneck Analysis for Address Space
  5. D Storage Usage by Address Space
  6. M Storage Usage by all Address Spaces
  7. S Address Space CPU Usage Details
  8. T TCB Storage and LSQA for Address Space
  9. W WLM Service Class Resources

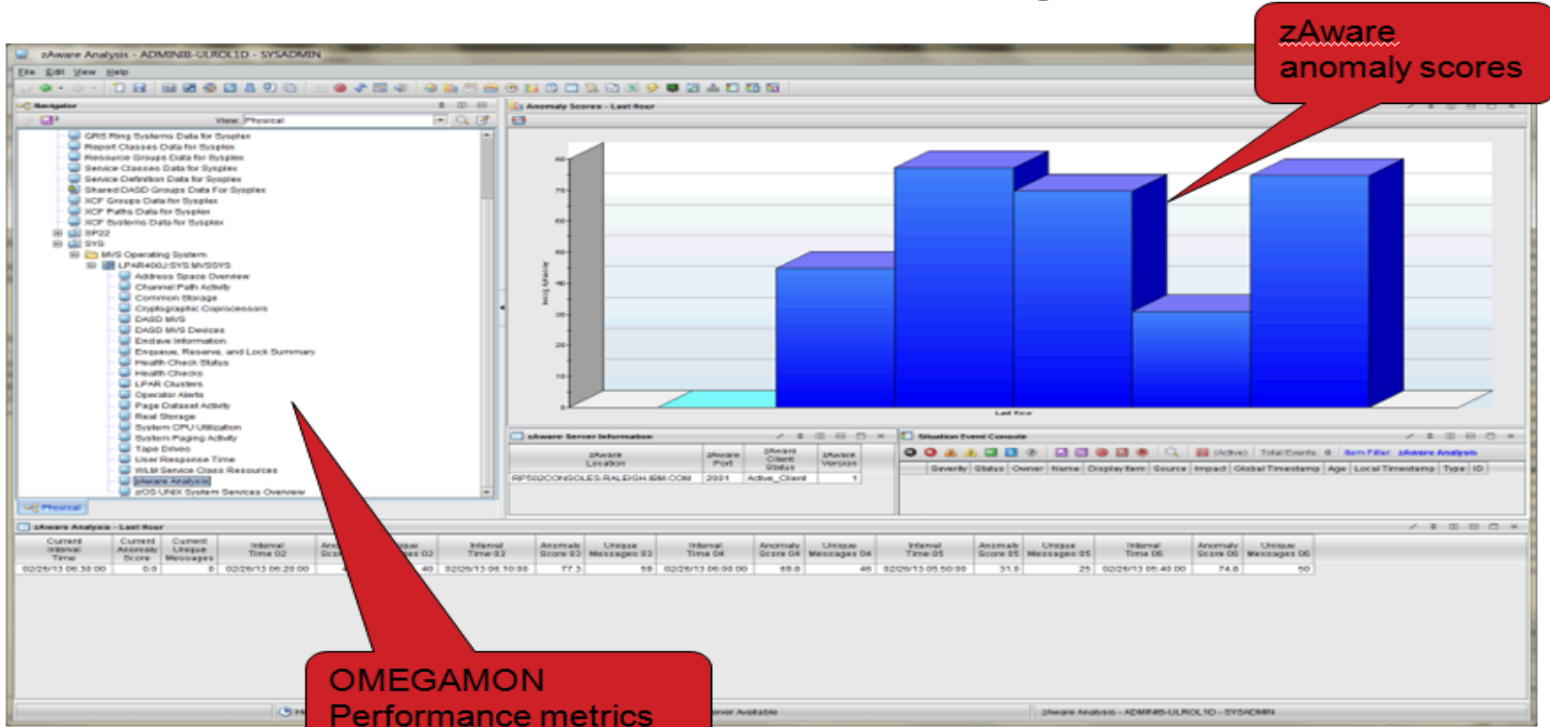
```




Put the zAware power to work finding anomalies on your zOS LPARs to prevent an outage !

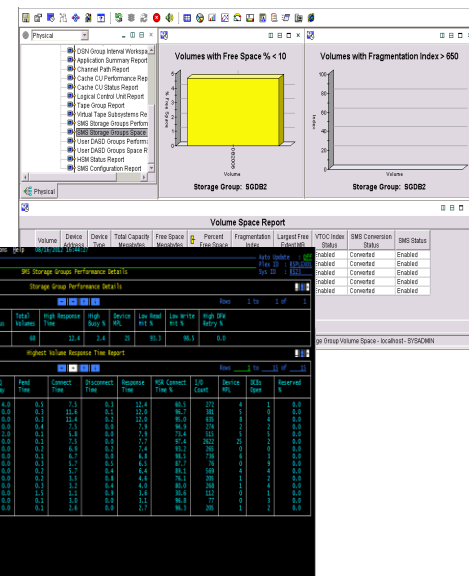
Situation Detecting IMS Log Failure now seen quickly !

- The new OMEGAMON warning situation for zAware, based on anomaly scores, has triggered indicating something highly unusual is happening on my LPAR.
- Launch from TEP to the zAware UI next where IMS Log Failure is seen



OMEGAMON XE for Storage on z/OS v5.3

- Real-time and historical mainframe STORAGE monitoring
- Powerful alerting and “Take Action” capability
- Daily Storage management capability and functions
- New Enhanced 3270 user interface
- A wide breadth of mainframe storage info:
 - Space and Performance management (storage groups all the way down to data set groups, define your own for reporting)
 - Tape / VTS
 - Channels (FICON), Control Units, CACHE
 - DFSMSHsm (View , administer your active HSM queues, control Datasets, etc.)
 - DFSMSHsm / DFSMSdss / ICKDSF / IDCAMS online toolkit
 - Batch JCL creation from toolkit – any JCL
 - SMS constructs
 - DASD & Tape drive physical device support



- **Dynamic Workspace Linking to:**
 - Advanced DFSMSHsm Reporter
 - IBM Tivoli Advanced DFSMSHsm Audit
 - IBM Tivoli Advanced Catalog Mgt
 - IBM Tivoli Advanced Backup Recovery
 - IBM Tivoli Advanced Allocation Manager
 - IBM Tivoli Tape Optimizer (ITTO)
 - IBM Tivoli Automated Tape Allocation Manager



OMEGAMON XE for Storage on z/OS v5.3



Cornerstone for every z/OS Storage management Tool box!



- Overall z/OS Storage management capabilities provide Availability, Performance, Workload views, and Toolkit functions to **maximize efficiency and effectiveness** for daily z/OS Storage Management functions
- **Reduce resource consumption**, operations Managers will appreciate New Minimal Monitoring Configuration and reduction in Cache and LSpace Collector performance – **20% improvement in CPU collection of data**
- **Improve trend analysis and planning** - New Dataset Attribute Group Extraction (DAGX) allows analysis of dataset attribute groups using spreadsheet or other analytics tools outside of Tivoli Data Warehouse for Storage Administrators
- **Increased problem determination capability** with new E3270UI Embedded Data support makes it easier for Storage Admins to combine displays of related information from OM CICS and OM MQ for better cross storage information analysis
- **Reduced Time to Resolution** with new Near-Term-History displays in E3270UI simplifying trending analysis



OMEGAMON XE for Storage on z/OS v5.3

Data Set Attribute Group Extractor (DAGX)



The screenshot shows the 'Dataset Attributes Group Summary' application window. The title bar indicates the user is 'SYSADMIN' in 'ADMIN MODE'. The interface includes a menu bar (File, Edit, View, Help), a toolbar with various icons, and a 'Navigator' pane on the left. A context menu is open over a table, with 'Extract Attributes' highlighted. The table below the menu has columns for 'Group Name', 'NU', 'D', and 'ir', and several data columns with 'n/a' values.

| Group Name | NU | D | ir | Total Used Tracks | Maximum Used Tracks | Minimum Used Tracks |
|------------|-----|-----|-----|-------------------|---------------------|---------------------|
| ALLOCGB | | | | n/a | n/a | n/a |
| ALLOCMB | | | | n/a | n/a | n/a |
| ALLOCTRK | | | | n/a | n/a | n/a |
| ASSOCNAME | | | | n/a | n/a | n/a |
| AVGLRECL | n/a | n/a | n/a | n/a | n/a | n/a |
| BLKSIZE | n/a | n/a | n/a | n/a | n/a | n/a |
| CASPLITS | n/a | n/a | n/a | n/a | n/a | n/a |
| CATALOG | n/a | n/a | n/a | n/a | n/a | n/a |
| CATENTRY | n/a | n/a | n/a | n/a | n/a | n/a |
| CATNAME | n/a | n/a | n/a | n/a | n/a | n/a |
| CISIZE | n/a | n/a | n/a | n/a | n/a | n/a |

- **Improve trend analysis and planning** - New Dataset Attribute Group Extraction (DAGX) allows analysis of dataset attribute groups using spreadsheet or other analytics tools outside of Tivoli Data Warehouse for Storage Administrators
- Easy to use – Pull down and panel driven
- Output can be exported to a delimited file where it can be manipulated by Excel or any other program you wish to use





OMEGAMON XE for Storage on z/OS v5.3

New flexibility in collection and reduced resource consumption



- Ability to turn off the collection of performance data:
 - Disable the collection of volume performance information
 - Disable the collection of cache performance information
- Reduction in resource utilization for volume space data:
 - Collection of volume space data optimized to eliminate the collection of redundant data
 - Estimated reduction of 15% of TEMS CPU utilization
 - Depends on number of logical volume (more volumes, bigger the reduction)
 - Depends on dataset activity across logical volumes
 - Requires z/OS 1.13 or above
- Cache data collection:
 - Rewrite of cache collector optimized for performance and elimination of redundant data
 - Estimated reduction of 5% of TEMS CPU utilization depending upon the number of SSIDs

Agenda

- OMEGAMON XE on zOS v5.3 overview
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- **OMEGAMON XE on zOS v5.3 details**
- OMEGAMON XE on zOS v5.3 v5.3 problem solving
- Summary

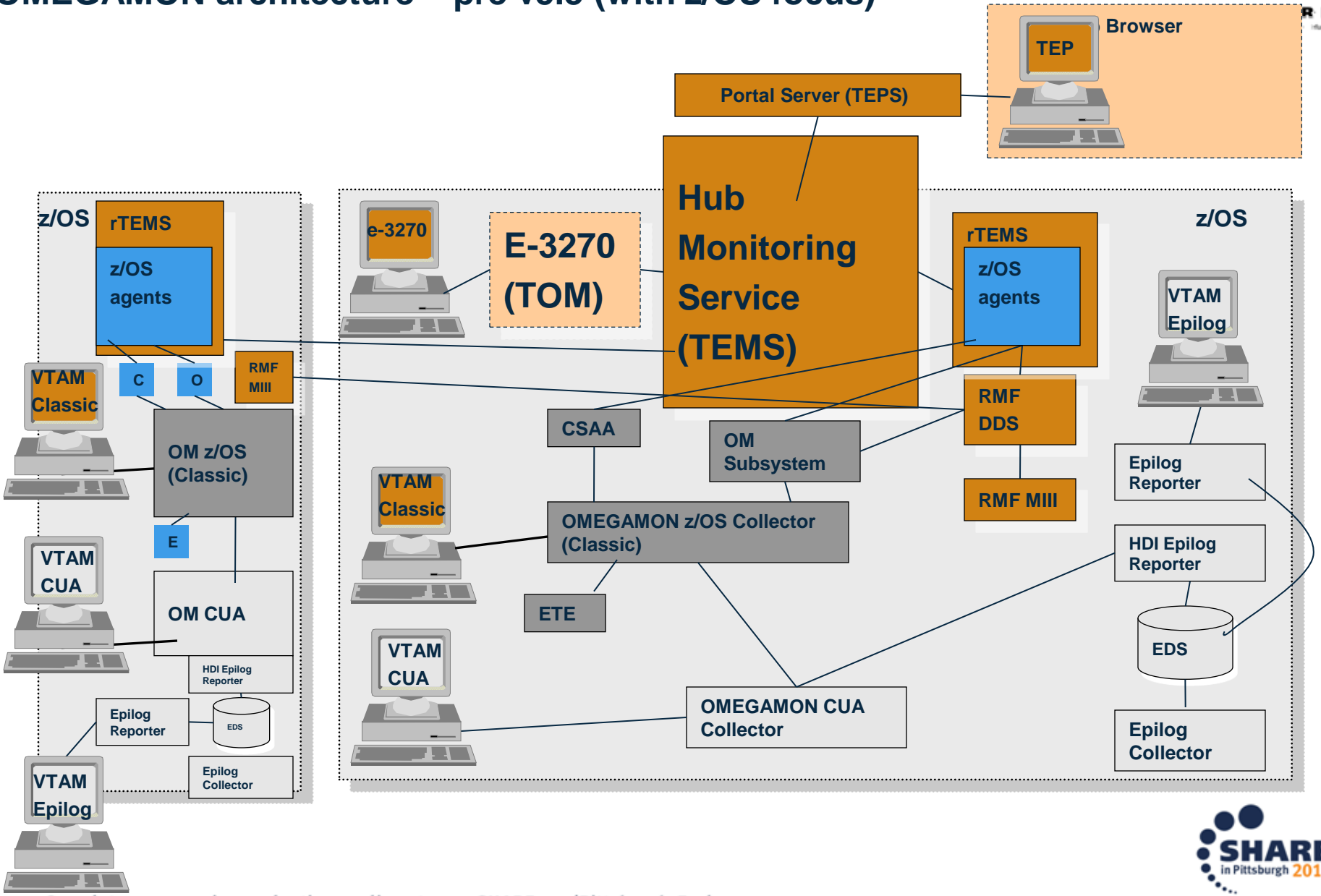
OMEGAMON Product Architecture changes

- The v511/v530 OMEGAMON XE on z/OS provides:
 - Enhanced 3270 User Interface (e-3270UI) and the Tivoli Enterprise Portal (TEP) to view enterprise wide performance information.
 - Also the powerful OMEGAMON Classic interface for single LPAR
 - Two other LPAR specific monitors, the OMEGAMON II Common User Interface facility and the Epilog zOS historical presentation
 - V 530 - Statement of Direction – Future: Epilog zOS component will be retired along with CUA's and OMEGAVIEW



RE

OMEGAMON architecture – pre v5.3 (with z/OS focus)



Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval



OMEGAMON Product v 530 changes:

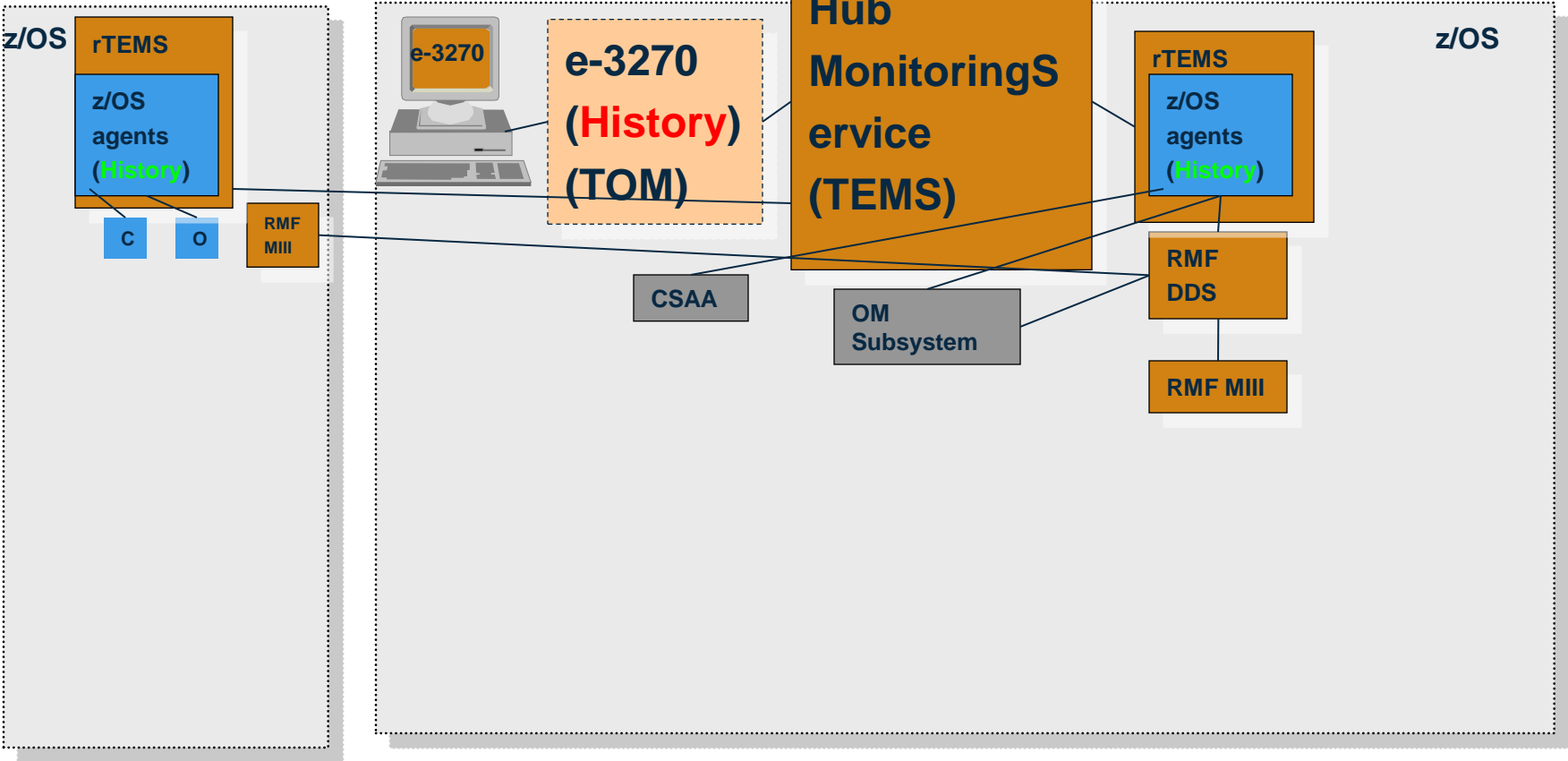
- Use of RMF Monitor III DDS based history support in the OMEGAMON XE on z/OS v530 agents and new workspaces in the Enhanced 3270 User Interface.
- No need for the OMEGAMON CUA, Eplilog zOS and maybe Classic environments.
- Eliminates 4 or 5 started tasks per LPAR while retaining all the real time and historical performance information.



RE

OMEGAMON architecture (with z/OS 530 + History)

You may choose to turn off OMEGAMON Classic when not in use



Near-Term History – OM XE zOS v5.3

- SUMMARY workspaces are provided for:
 - Central Processing Complex (CPC).
 - Workload Manager Service Class Periods.
 - DASD Devices.
- SNAPSHOT workspaces are provided for:
 - CPC LPARs and LPAR Details
 - Service Class Period Address Space CPU consumption.
 - Real Storage and Common Storage for an Address Space.
 - Execution and Delays for Address Spaces across the Sysplex, System, Sysplex Service Class and System Service Class.
 - Memory Objects and 1 Megabyte Page statistics by System and Address Space.
 - Address spaces using a DASD device.

NEAR TERM HISTORY for CPCS AND LPARS

NTH For CPCs and LPARs – Enterprise Summary (KOBSTART)

File Edit View Tools Navigate Help 07/10/2014 13:18:58

Command ==> KOBSTART

Options Menu

Select an option and then press ENTER

1. B Report Classes Data for Sysplex
2. C Enterprise CPC Overview
3. D Service Definition Data
4. E Enterprise Global Enqueues
5. F Sysplex Coupling Facility
6. P Enterprise Sysplex Overview
7. R Resource Groups
8. S LPAR Overview for Sysplex
9. T Top Consumers for Sysplex
10. V Service Classes for Sysplex
11. X XCF Utilization
12. Z z/OS System Resources
13. H Historical Summary For CPCs Serving Sysplex

Auto Update : Off
Plex ID : ZPETPLX2
Sys ID : Z3

se Summary

ve Sysplexes

| Group | LPAR Group Capacity Limit | Group LPAR MSU Limit | ΔAverage Unused VGroup MSUs |
|-------|---------------------------|----------------------|-----------------------------|
| | Unavailable | Unavailable | 0 |

Rows 1 to 1 of 1

e CICSplexes

| ΔWorst VPerformance Index | Worst Service Class Name | ΔEnqueue V Waits | ΔCurrent VBuffer Waits | ΔCurrent VString Waits | ΔI/O VRate |
|---------------------------|--------------------------|------------------|------------------------|------------------------|------------|
| 0.00% | n/a | 0 | 0 | 0 | 0 |
| 2.55% | STRANS | 0 | 0 | 0 | 0 |
| 0.00% | n/a | 0 | 0 | 0 | 0 |

Rows 1 to 3 of 3

| OMEGPLE | TESTPLEX | WUIPLEX |
|----------|----------|---------|
| 53 | 4 | |
| 111175/m | 1/m | |
| 451.3% | 0.0% | |
| No | No | |
| n/a | n/a | |

All Active CICS

WebSphere MQ Queue

Columns 2 to 5 of 5

| ΔQMgr VName | Host Name | QMgr Status | Channel Initiator | Command Server |
|-------------|-----------|-------------|-------------------|----------------|
| _ CSQ4 | Z4 | Running | Running | Waiting |
| _ CSQ3 | Z3 | Running | Running | Waiting |
| _ CSQ2 | Z2 | Running | Running | Waiting |
| _ QM2 | Z1 | Running | Running | Waiting |
| _ CSQ1 | Z1 | Running | Running | Waiting |

An entry point to Near Term History is a new "H" navigation option to display a summary, 5 minute intervals, of the most recent 2 hours of statistics for CPCs serving a Sysplex (workspace KM5CPC1H)

NTH For CPCs and LPARs– Historical Summary For CPCs Serving Sysplex (KM5CPC1H)

| Historical Summary For CPCs Serving Sysplex | | | | | | | | | | |
|---|-------------------|------------------------|-----------------|-----------------|----------------|----------------|------------------------|--------------------|-----|-----|
| Sysplex ZPETPLX2 | | | | | | | | | | |
| Recording Date/Time | CPC Serial Number | Physical % Standard CP | Physical % zAAP | Physical % zIIP | Physical % IFL | Physical % ICF | Effective MSU Capacity | Capacity Indicator | Adj | Rea |
| 14/07/10 13:40:00 | 0FBAA6 | 61.2 | No zAAPs Online | 54.4 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:40:00 | 094E15 | 82.1 | No zAAPs Online | 96.1 | 5.6 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:35:00 | 094E15 | 80.6 | No zAAPs Online | 93.1 | 6.0 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:35:00 | 0FBAA6 | 59.2 | No zAAPs Online | 53.6 | 2.4 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:30:00 | 0FBAA6 | 68.6 | No zAAPs Online | 55.8 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:30:00 | 094E15 | 75.1 | No zAAPs Online | 93.3 | 5.4 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:25:00 | 094E15 | 82.0 | No zAAPs Online | 98.5 | 5.6 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:25:00 | 0FBAA6 | 73.7 | No zAAPs Online | 57.1 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:20:00 | 094E15 | 88.5 | No zAAPs Online | 100.0 | 6.1 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:20:00 | 0FBAA6 | 62.2 | No zAAPs Online | 33.0 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:15:00 | 0FBAA6 | 60.3 | No zAAPs Online | 36.3 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:15:00 | 094E15 | 89.5 | No zAAPs Online | 100.0 | 6.3 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:10:00 | 094E15 | 92.0 | No zAAPs Online | 100.0 | 5.7 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:10:00 | 0FBAA6 | 61.8 | No zAAPs Online | 36.9 | 2.7 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:05:00 | 094E15 | 92.4 | No zAAPs Online | 100.0 | 5.7 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:05:00 | 0FBAA6 | 65.0 | No zAAPs Online | 37.7 | 2.9 | 100.0 | 6477 | 100 | No | |
| 14/07/10 13:00:00 | 094E15 | 94.1 | No zAAPs Online | 100.0 | 5.8 | 100.0 | 5001 | 100 | No | |
| 14/07/10 13:00:00 | 0FBAA6 | 66.7 | No zAAPs Online | 37.0 | 2.7 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:55:00 | 094E15 | 96.4 | No zAAPs Online | 100.0 | 6.5 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:55:00 | 0FBAA6 | 67.6 | No zAAPs Online | 37.4 | 2.8 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:50:00 | 0FBAA6 | 68.3 | No zAAPs Online | 35.5 | 2.8 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:50:00 | 094E15 | 96.2 | No zAAPs Online | 100.0 | 6.6 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:45:00 | 094E15 | 96.3 | No zAAPs Online | 100.0 | 7.3 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:45:00 | 0FBAA6 | 65.2 | No zAAPs Online | 34.7 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:40:00 | 094E15 | 93.5 | No zAAPs Online | 99.7 | 5.9 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:40:00 | 0FBAA6 | 62.8 | No zAAPs Online | 35.5 | 2.7 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:35:00 | 0FBAA6 | 73.2 | No zAAPs Online | 32.1 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:35:00 | 094E15 | 96.7 | No zAAPs Online | 100.0 | 6.4 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:30:00 | 094E15 | 95.0 | No zAAPs Online | 100.0 | 5.6 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:30:00 | 0FBAA6 | 72.8 | No zAAPs Online | 29.5 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:25:00 | 094E15 | 96.3 | No zAAPs Online | 100.0 | 5.9 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:25:00 | 0FBAA6 | 75.8 | No zAAPs Online | 30.9 | 2.6 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:20:00 | 094E15 | 92.5 | No zAAPs Online | 97.9 | 6.0 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:20:00 | 0FBAA6 | 63.1 | No zAAPs Online | 32.7 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:15:00 | 094E15 | 87.5 | No zAAPs Online | 99.3 | 5.5 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:15:00 | 0FBAA6 | 56.7 | No zAAPs Online | 31.3 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:10:00 | 0FBAA6 | 64.4 | No zAAPs Online | 31.3 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:10:00 | 094E15 | 94.2 | No zAAPs Online | 99.3 | 5.5 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:05:00 | 094E15 | 92.8 | No zAAPs Online | 99.3 | 5.5 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:05:00 | 0FBAA6 | 67.1 | No zAAPs Online | 33.3 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 12:00:00 | 094E15 | 92.0 | No zAAPs Online | 99.3 | 5.5 | 100.0 | 5001 | 100 | No | |
| 14/07/10 12:00:00 | 0FBAA6 | 67.0 | No zAAPs Online | 33.3 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 11:55:00 | 0FBAA6 | 58.5 | No zAAPs Online | 32.7 | 2.5 | 100.0 | 6477 | 100 | No | |
| 14/07/10 11:55:00 | 094E15 | 90.4 | No zAAPs Online | 99.3 | 5.5 | 100.0 | 5001 | 100 | No | |
| 14/07/10 11:50:00 | 094E15 | 89.4 | No zAAPs Online | 99.3 | 6.3 | 100.0 | 5001 | 100 | No | |
| 14/07/10 11:50:00 | 0FBAA6 | 60.9 | No zAAPs Online | 31.4 | 2.6 | 100.0 | 6396 | 100 | No | |
| 14/07/10 11:45:00 | 0FBAA6 | 62.5 | No zAAPs Online | 30.2 | 2.5 | 100.0 | 6396 | 100 | No | |
| 14/07/10 11:45:00 | 094E15 | 92.3 | No zAAPs Online | 99.9 | 7.1 | 100.0 | 5001 | 100 | No | |

KM5CPC1H displays total physical standard and specialty processor utilization for each CPC that a Sysplex member is active on (in this example 0FBAA6 and 094E15). Effective MSU capacity and cycle steering related information is also displayed.



NTH For CPCs -LPARs– Hist Summary For A CPC (KM5CPC2H)

File Edit View Tools Navigate Help 07/11/2014 11:24:36

Command ==> KM5CPC2H Historical Summary For A CPC

Display : HISTORY
Plex ID : ZPETPLX2
CPC : 0FBAA6

CPC 0FBAA6

Columns 3 to 9 of 9 Rows 1 to 24 of 24

| Recording Date/Time | ΔPhysical % ▽Standard CP | ΔPhysical % ▽zAAP | ΔPhysical % ▽zIIP | ΔPhysical % ▽IFL | ΔPhysical % ▽ICF | Effective MSU Capacity | Capacity Indicator | Adjustment Reason |
|---------------------|-----------------------------|----------------------|----------------------|---------------------|---------------------|---------------------------|-----------------------|----------------------|
| 14/07/11 11:20:00 | 71.4 | No zAAPs Online | 49.6 | 2.5 | 100.0 | 6477 | 100 | None |
| 14/07/11 11:15:00 | 66.0 | No zAAPs Online | 33.6 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 11:10:00 | 60.7 | No zAAPs Online | 33.9 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 11:05:00 | 64.0 | No zAAPs Online | 35.3 | 2.7 | 100.0 | 6477 | 100 | None |
| 14/07/11 11:00:00 | 60.8 | No zAAPs Online | 33.7 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:55:00 | 60.6 | No zAAPs Online | 34.5 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:50:00 | 68.7 | No zAAPs Online | 35.7 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:45:00 | 62.4 | No zAAPs Online | 34.9 | 2.5 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:40:00 | 61.6 | No zAAPs Online | 37.0 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:35:00 | 66.0 | No zAAPs Online | 56.5 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:30:00 | 60.8 | No zAAPs Online | 42.3 | 2.5 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:25:00 | 71.0 | No zAAPs Online | 41.3 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:20:00 | 83.4 | No zAAPs Online | 56.0 | 2.5 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:15:00 | 87.5 | No zAAPs Online | 58.1 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:10:00 | 89.0 | No zAAPs Online | 59.5 | 2.7 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:05:00 | 86.3 | No zAAPs Online | 52.1 | 2.7 | 100.0 | 6477 | 100 | None |
| 14/07/11 10:00:00 | 95.1 | No zAAPs Online | 34.7 | 3.5 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:55:00 | 95.9 | No zAAPs Online | 34.9 | 2.8 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:50:00 | 97.9 | No zAAPs Online | 36.0 | 2.7 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:45:00 | 95.9 | No zAAPs Online | 37.1 | 2.7 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:40:00 | 92.9 | No zAAPs Online | 38.0 | 2.7 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:35:00 | 89.1 | No zAAPs Online | 42.4 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:30:00 | 97.9 | No zAAPs Online | 54.6 | 2.6 | 100.0 | 6477 | 100 | None |
| 14/07/11 09:25:00 | 98.8 | No zAAPs Online | 56.2 | 2.6 | 100.0 | 6477 | 100 | None |

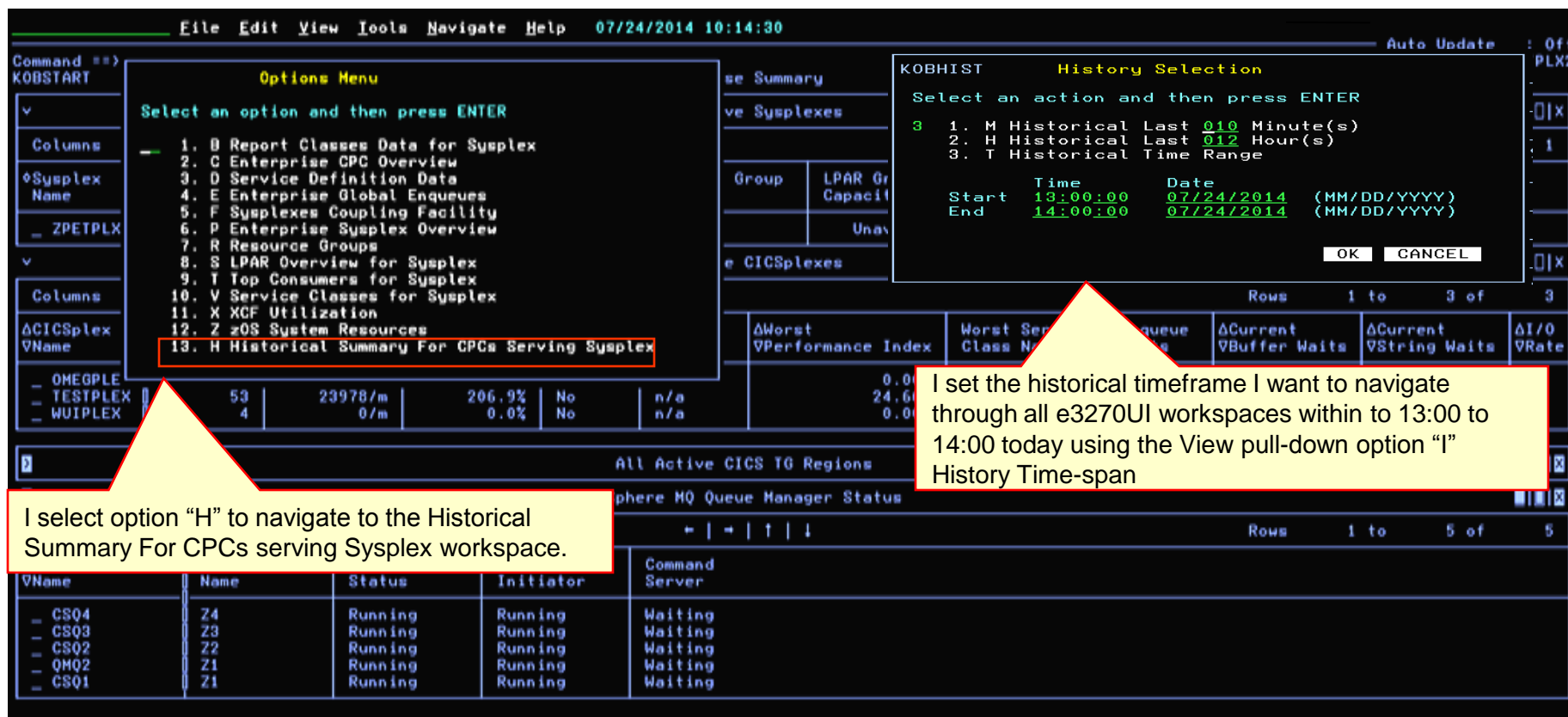
KM5CPC2H displays the identical statistics to KM5CPC1H except that it is for a specific CPC.

Scenario :

Near-Term History: CPC and LPAR

Near Term History: CPC and LPAR

- As a systems programmer I received a call from operations that application users reported a variety of response time problems and batch delays earlier today on the ZPETPLX2 Sysplex LPAR Z2 in the 1:00pm to 2:00pm timeframe. This report is fairly general so I decide to investigate starting at the CPC level where LPAR Z2 is running by selecting option “H” from KOBSTART.



File Edit View Tools Navigate Help 07/24/2014 10:14:30

Command ==> KOBSTART

Options Menu

Select an option and then press ENTER

1. B Report Classes Data for Sysplex
2. C Enterprise CPC Overview
3. D Service Definition Data
4. E Enterprise Global Enqueues
5. F Sysplex Coupling Facility
6. P Enterprise Sysplex Overview
7. R Resource Groups
8. S LPAR Overview for Sysplex
9. T Top Consumers for Sysplex
10. V Service Classes for Sysplex
11. X XCF Utilization
12. Z zOS System Resources
- 13. H Historical Summary For CPCs Serving Sysplex**

KOBHIST History Selection

Select an action and then press ENTER

- 3 1. M Historical Last 010 Minute(s)
2. H Historical Last 012 Hour(s)
3. T Historical Time Range

| | Time | Date | |
|-------|----------|------------|--------------|
| Start | 13:00:00 | 07/24/2014 | (MM/DD/YYYY) |
| End | 14:00:00 | 07/24/2014 | (MM/DD/YYYY) |

OK CANCEL

All Active CICS TO Regions

| ΔWorst VPerformance Index | Worst Ser Class No | Queue | ΔCurrent VBuffer Waits | ΔCurrent VString Waits | ΔI/O VRate |
|---------------------------|--------------------|-------|------------------------|------------------------|------------|
| 0.0 | | | 0.0 | 0.0 | 0.0 |
| 24.6 | | | 0.0 | 0.0 | 0.0 |
| 0.0 | | | 0.0 | 0.0 | 0.0 |

phere MQ Queue Manager Status

| VName | Name | Status | Initiator | Command Server |
|--------|------|---------|-----------|----------------|
| - CSQ4 | Z4 | Running | Running | Waiting |
| - CSQ3 | Z3 | Running | Running | Waiting |
| - CSQ2 | Z2 | Running | Running | Waiting |
| - QMQ2 | Z1 | Running | Running | Waiting |
| - CSQ1 | Z1 | Running | Running | Waiting |

I set the historical timeframe I want to navigate through all e3270UI workspaces within to 13:00 to 14:00 today using the View pull-down option “I” History Time-span

I select option “H” to navigate to the Historical Summary For CPCs serving Sysplex workspace.

Near Term History: CPC and LPAR

- I know that system Z2 runs on the CPC 0FBAA6 and select the 5 minute interval ending at 13:05 for that CPC in the Recording Date/Time column, using the default navigation to navigate to the Historical Details For A CPC workspace.

File Edit View Tools Navigate Help 07/24/2014 14:52:46

Command ==> KM5CPC1H Historical Summary For CPCs Serving Sysplex

Display : HISTORY
Plex ID : ZPETPLX2
SMF ID :

Sysplex ZPETPLX2

Columns 3 to 10 of 10 Rows 1 to 24 of 24

| Recording Date/Time | CPC Serial Number | Physical % Standard CP | Physical % zAAP | Physical % zIIP | Physical % IFL | Physical % ICF | Effective MSU Capacity | Capacity Indicator | +Adj Rea |
|---------------------|-------------------|------------------------|-----------------|-----------------|----------------|----------------|------------------------|--------------------|----------|
| 14/07/24 14:00:00 | 094E15 | 84.5 | No zAAP= Online | 100.0 | 6.3 | 100.0 | 5001 | 100 | No |
| 14/07/24 14:00:00 | 0FBAA6 | 85.0 | No zAAP= Online | 28.7 | 2.3 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:55:00 | 094E15 | 84.6 | No zAAP= Online | 99.8 | 6.2 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:55:00 | 0FBAA6 | 88.9 | No zAAP= Online | 30.4 | 2.4 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:50:00 | 0FBAA6 | 80.8 | No zAAP= Online | 33.0 | 2.3 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:50:00 | 094E15 | 81.5 | No zAAP= Online | 99.5 | 6.2 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:45:00 | 094E15 | 80.3 | No zAAP= Online | 99.9 | 7.4 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:45:00 | 0FBAA6 | 78.3 | No zAAP= Online | 35.8 | 2.5 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:40:00 | 0FBAA6 | 80.5 | No zAAP= Online | 52.4 | 2.4 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:40:00 | 094E15 | 81.9 | No zAAP= Online | 100.0 | 6.2 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:35:00 | 094E15 | 82.4 | No zAAP= Online | 100.0 | 6.2 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:35:00 | 0FBAA6 | 81.3 | No zAAP= Online | 54.9 | 2.3 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:30:00 | 094E15 | 83.8 | No zAAP= Online | 99.9 | 6.2 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:30:00 | 0FBAA6 | 80.4 | No zAAP= Online | 56.3 | 2.4 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:25:00 | 0FBAA6 | 81.8 | No zAAP= Online | 56.6 | 2.3 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:25:00 | 094E15 | 81.0 | No zAAP= Online | 99.9 | 6.7 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:20:00 | 094E15 | 82.1 | No zAAP= Online | 99.7 | 6.6 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:20:00 | 0FBAA6 | 82.0 | No zAAP= Online | 55.0 | 2.4 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:15:00 | 0FBAA6 | 80.4 | No zAAP= Online | 47.8 | 2.3 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:15:00 | 094E15 | 81.6 | No zAAP= Online | 99.8 | 6.3 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:10:00 | 094E15 | 79.4 | No zAAP= Online | 99.7 | 6.3 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:10:00 | 0FBAA6 | 78.6 | No zAAP= Online | 54.8 | 2.4 | 100.0 | 6396 | 100 | No |
| 14/07/24 13:05:00 | 094E15 | 80.7 | No zAAP= Online | 99.7 | 6.7 | 100.0 | 5001 | 100 | No |
| 14/07/24 13:05:00 | 0FBAA6 | 79.1 | No zAAP= Online | 56.0 | 2.5 | 100.0 | 6396 | 100 | No |

The physical Standard CP utilization across the CPC looks OK so utilization overloading is probably occurring at the LPAR level if at all.

Near Term History: CPC and LPAR

- After navigating through the 13:00 to 14:00 interval in Historical Details For A CPC it is apparent that system Z2 is running at much higher standard CP utilization than expected I need to determine what's causing this.

Command ==> KM5CPCDH Historical Details For A CPC Interval Statistics for CPC 0FBAA6

| Physical % Standard CP | Physical % zAAP | Physical % zIIP | Physical % IFL | Physical % ICF | Effective MSU Capacity | Capacity Indicator | Adjustment Reason |
|------------------------|-----------------|-----------------|----------------|----------------|------------------------|--------------------|-------------------|
| 78.3 | No zAAPs Online | 35.8 | 2.5 | 100.0 | 6396 | 100 | None |

Standard CP Pool

| LPAR Name | Defined MSU Capacity | Actual MSUs Consumed | Effective Logical CP Percent | Total Logical CP Percent | Effective Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | +Current Weight |
|-----------|----------------------|----------------------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|---------------------|-----------------|
| GT1 | None | 2 | 1.0 | 1.1 | 0.0 | 0.0 | 0.0 | 2.0 | 20 |
| JB0 | None | 1376 | 67.2 | 67.7 | 21.3 | 21.5 | 0.2 | 20.0 | 269 |
| JD0 | None | 214 | 29.8 | 30.1 | 3.3 | 3.3 | 0.0 | 7.0 | 51 |
| JF0 | None | 432 | 52.7 | 53.1 | 6.7 | 6.7 | 0.0 | 8.0 | 111 |
| J10 | None | 12 | 1.6 | 1.7 | 0.2 | 0.2 | 0.0 | 7.0 | 70 |
| JJ0 | None | 9 | 1.3 | 1.3 | 0.1 | 0.1 | 0.0 | 7.0 | 70 |
| J90 | None | 1518 | 74.2 | 74.7 | 23.6 | 23.7 | 0.1 | 20.0 | 229 |
| PETLVS | None | 1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 4.0 | 17 |
| ZG5 | None | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 30 |
| Z2 | None | 1109 | 99.2 | 99.3 | 17.3 | 17.3 | 0.0 | 11.0 | 133 |
| Z4 | None | 267 | 23.5 | 23.9 | 4.1 | 4.2 | 0.1 | 11.0 | 147 |
| PHYSICAL | | | | | | 1.2 | 0.4 | | |

zIIP Pool

| LPAR Name | Effective Logical CP Percent | Total Logical CP Percent | Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | Current Weight | Initial Weight | +Minimum Weight |
|-----------|------------------------------|--------------------------|---------------------|---------------------------|------------------------------|---------------------|----------------|----------------|-----------------|
| JB0 | 27.0 | 7.1 | 7.2 | 0.0 | 5.0 | 250 | | | |
| JD0 | 1.9 | 0.2 | 0.2 | 0.0 | 2.0 | 90 | | | |
| JF0 | 15.2 | 2.5 | 2.5 | 0.0 | 3.0 | 170 | | | |
| J10 | | | | | 5.0 | 260 | | | |
| JJ0 | | | | | 5.0 | 260 | | | |
| J90 | | | | | 5.0 | 250 | | | |
| Z2 | | | | | 3.0 | 170 | | | |
| Z4 | | | | | 3.0 | 170 | | | |
| PHYSICAL | | | | | | | | | |

Historical Details For An LPAR

| LPAR Name | Effective Logical CP | Physical CP | Physical CP Overhead Percent | Average Logical CPs | Current Weight | Initial Capping Option | +Cap Opt |
|-----------|----------------------|-------------|------------------------------|---------------------|----------------|------------------------|----------|
| PETLVS | 2.0 | 2.0 | 0.0 | 11.0 | 10 | No | No |
| PHYSICAL | | | 0.1 | | | | |

13:40 - Display 13:45 - 13:50 MOREV

Navigating "horizontally" in Historical Details For A CPC using the navigation buttons at the bottom of the workspace I see Total Logical standard CP around the 99% level for most of the intervals. This is well beyond the normal utilization on Z2 at this time of day. Note that I could have further selected LPAR Z2 and navigated to the Historical Details For An LPAR workspace and performed the same "horizontal" navigation but displaying statistics for system Z2 only.

Near Term History: CPC and LPAR

- I might also have further navigated to Historical Details For An LPAR to isolate the statistics to just system Z2 and only for the processor pool types configured to it.

File Edit View Tools Navigate Help 07/24/2014 16:56:43

Command ==> KMSLPRDH

Display : HISTORY
Plex ID : ZPETPLX2
LPAR : Z2

Historical Details For An LPAR

LPAR Z2 On CPC 0FBAA6 - Standard CP Pool

| | | | |
|------------------------------------|-------------|--------------------------------|----------|
| Defined MSU Capacity..... | None | Actual MSUs Consumed..... | 1109 |
| Effective Logical CP Percent..... | 99.2 | Total Logical CP Percent..... | 99.3 |
| Effective Physical CP Percent..... | 17.3 | Total Physical CP Percent..... | 17.3 |
| Physical CP Overhead Percent..... | 0.0 | Average Logical CPs..... | 11.0 |
| Current Weight..... | 133 | Initial Weight..... | 140 |
| Minimum Weight..... | 0 | Maximum Weight..... | 0 |
| High Share LPs..... | 6 | Medium Share LPs..... | 2 |
| LP %Share Of Physical..... | 65.2 | Low Share LPs..... | 3 |
| LPAR Configured Storage MB..... | 142336 | LPAR Cluster Name..... | ZPETPLX2 |
| Initial Capping Option..... | No | Capping Option..... | No |
| Absolute Capacity Limit..... | Unavailable | | |

LPAR Z2 On CPC 0FBAA6 - zIIP Pool

| | | | |
|------------------------------------|------|--------------------------------|------|
| Effective Logical CP Percent..... | 77.8 | Total Logical CP Percent..... | 77.9 |
| Effective Physical CP Percent..... | 12.3 | Total Physical CP Percent..... | 12.3 |
| Physical CP Overhead Percent..... | 0.0 | Average Logical CPs..... | 3.0 |
| Current Weight..... | 170 | Initial Weight..... | |
| Minimum Weight..... | | Maximum Weight..... | |
| High Share LPs..... | 1 | Medium Share LPs..... | 1 |
| LP %Share Of Physical..... | 99.8 | Low Share LPs..... | 1 |
| Initial Capping Option..... | No | | |

13:40 - Display 13:45 - 13:50 HISTORY

Navigating “horizontally” in Historical Details For An LPAR using the navigation buttons at the bottom of the workspace I see Total Logical standard CP around the 99% level for most of the intervals. This is well beyond the normal utilization on Z2 at this time of day..

Near Term History: CPC and LPAR

- I want to find out if there are any heavy CPU consuming address spaces on system Z2 during the 13:00 to 14:00 time-frame. Since this time-frame falls inside the last 4 hours I can take advantage of the fact that the 4-Hour Rolling Average MSU Statistics workspace has been enhanced to show address space CPU consumption in each of the 5-minute intervals over the 4-hour period. I back out to KOBSTART and select option “Z” from the Options menu.

File Edit View Tools Navigate Help 07/24/2014 10:14:30

Command ==> KOBSTART

Auto Update : Off
Plex ID : ZPETPLX2
Sys ID : Z2

Options Menu

Select an option and then press ENTER

1. B Report Classes Data for Sysplex
2. C Enterprise CPC Overview
3. D Service Definition Data
4. E Enterprise Global Enqueues
5. F Sysplexes Coupling Facility
6. P Enterprise Sysplex Overview
7. R Resource Groups
8. S LPAR Overview for Sysplex
9. T Top Consumers for Sysplex
10. V Service Classes for Sysplex
11. X XCF Utilization
- 12. Z zOS System Resources**
13. H Historical Summary For QPGs Serving Sysplex

| Group | LPAR Group Capacity Limit | Group LPAR MSU Limit | ΔAverage Unused ∇Group MSUs |
|-------------|---------------------------|----------------------|-----------------------------|
| Unavailable | Unavailable | Unavailable | 0 |

| ΔWorst ∇Performance Index | Worst Service Class Name | ΔEnqueue ∇Waits | ΔCurrent ∇Buffer Waits | ΔCurrent ∇String Waits | ΔI/O ∇Rate |
|---------------------------|--------------------------|-----------------|------------------------|------------------------|------------|
| 0.00% | n/a | 0 | 0 | 0 | 0 |
| 24.66% | STRANS | 0 | 0 | 0 | 0 |
| 0.00% | n/a | 0 | 0 | 0 | 0 |

All Active CICS TG Regions No Data

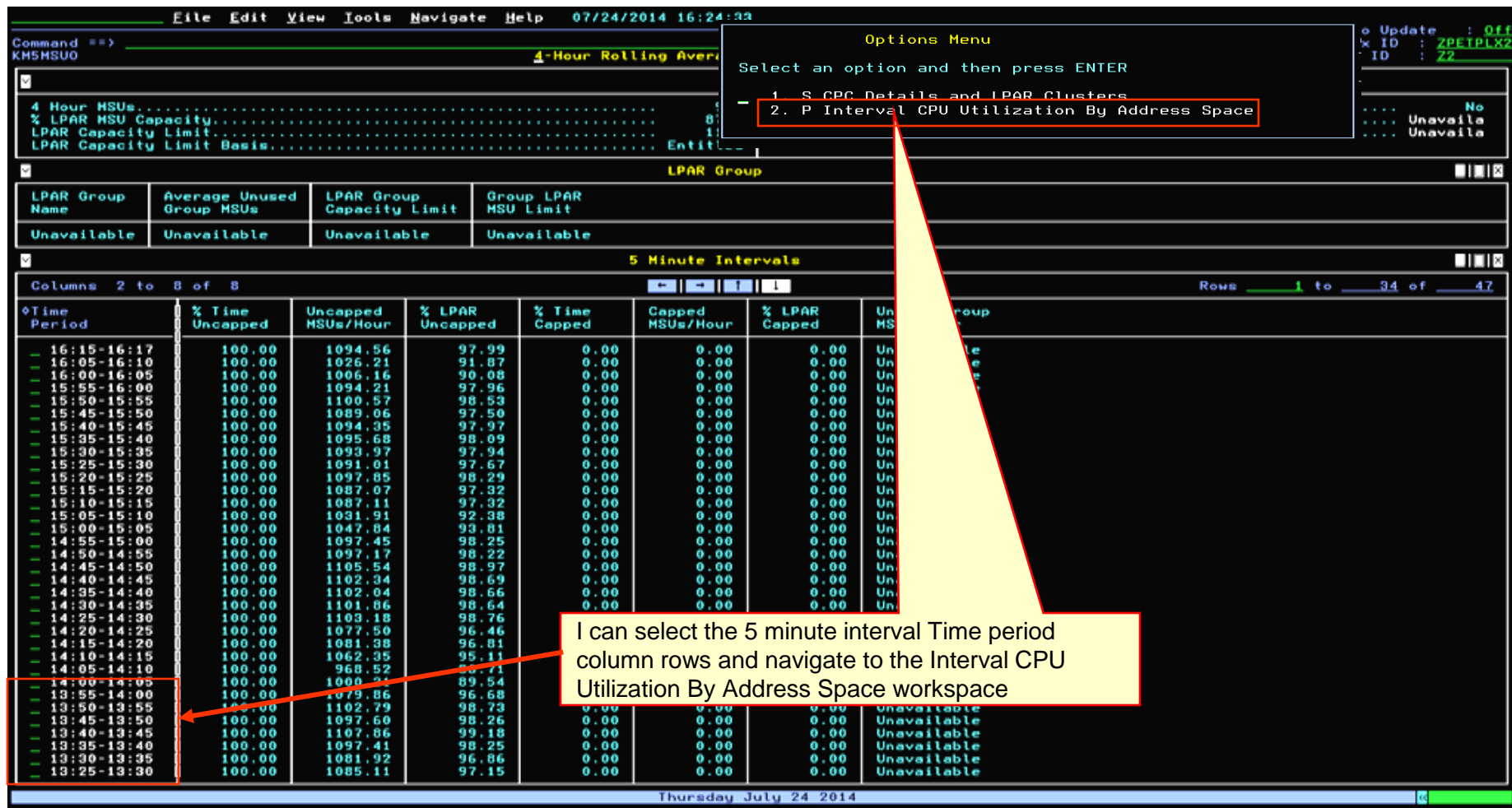
Sphere MQ Queue Manager Status

| ΔQMGr ∇Name | Host Name | QMGr Status | Channel Initiator | Command Server |
|-------------|-----------|-------------|-------------------|----------------|
| - CS04 | Z4 | Running | Running | Waiting |
| - CS03 | Z3 | Running | Running | Waiting |
| - CS02 | Z2 | Running | Running | Waiting |
| - QMQ2 | Z1 | Running | Running | Waiting |
| - CS01 | Z1 | Running | Running | Waiting |

I select option “Z” to navigate to the 4-Hour Rolling Average MSU Statistics workspace.

Near Term History: CPC and LPAR

- To display CPU utilization for all address spaces during a 5-minute 4-Hour Rolling Average time period I use the “P” navigation character to navigate to the Interval CPU Utilization By Address Space workspace for the 13:00 to 14:00 time-frame.



Options Menu

Select an option and then press ENTER

- S CPC Details and LPAR Clusters
- P Interval CPU Utilization By Address Space

LPAR Group

| LPAR Group Name | Average Unused Group MSUs | LPAR Group Capacity Limit | Group LPAR MSU Limit |
|-----------------|---------------------------|---------------------------|----------------------|
| Unavailable | Unavailable | Unavailable | Unavailable |

5 Minute Intervals

| Time Period | % Time Uncapped | Uncapped MSUs/Hour | % LPAR Uncapped | % Time Capped | Capped MSUs/Hour | % LPAR Capped | Unavail MSUs | Group |
|-------------|-----------------|--------------------|-----------------|---------------|------------------|---------------|--------------|-------|
| 16:15-16:17 | 100.00 | 1094.56 | 97.99 | 0.00 | 0.00 | 0.00 | Unavail | |
| 16:05-16:10 | 100.00 | 1026.21 | 91.87 | 0.00 | 0.00 | 0.00 | Unavail | |
| 16:00-16:05 | 100.00 | 1006.16 | 90.08 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:55-16:00 | 100.00 | 1094.21 | 97.96 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:50-15:55 | 100.00 | 1100.57 | 98.53 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:45-15:50 | 100.00 | 1089.06 | 97.50 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:40-15:45 | 100.00 | 1094.35 | 97.97 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:35-15:40 | 100.00 | 1095.68 | 98.09 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:30-15:35 | 100.00 | 1093.97 | 97.94 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:25-15:30 | 100.00 | 1091.01 | 97.67 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:20-15:25 | 100.00 | 1097.85 | 98.29 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:15-15:20 | 100.00 | 1087.07 | 97.32 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:10-15:15 | 100.00 | 1087.11 | 97.32 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:05-15:10 | 100.00 | 1031.91 | 92.38 | 0.00 | 0.00 | 0.00 | Unavail | |
| 15:00-15:05 | 100.00 | 1047.84 | 93.81 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:55-15:00 | 100.00 | 1097.45 | 98.25 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:50-14:55 | 100.00 | 1097.17 | 98.22 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:45-14:50 | 100.00 | 1105.54 | 98.97 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:40-14:45 | 100.00 | 1102.34 | 98.69 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:35-14:40 | 100.00 | 1102.04 | 98.66 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:30-14:35 | 100.00 | 1101.86 | 98.64 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:25-14:30 | 100.00 | 1103.18 | 98.76 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:20-14:25 | 100.00 | 1077.50 | 96.46 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:15-14:20 | 100.00 | 1081.38 | 96.81 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:10-14:15 | 100.00 | 1062.35 | 95.11 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:05-14:10 | 100.00 | 968.52 | 88.71 | 0.00 | 0.00 | 0.00 | Unavail | |
| 14:00-14:05 | 100.00 | 1000.54 | 89.54 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:55-14:00 | 100.00 | 1079.86 | 96.68 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:50-13:55 | 100.00 | 1102.79 | 98.73 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:45-13:50 | 100.00 | 1097.60 | 98.26 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:40-13:45 | 100.00 | 1107.86 | 99.18 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:35-13:40 | 100.00 | 1097.41 | 98.25 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:30-13:35 | 100.00 | 1081.92 | 96.86 | 0.00 | 0.00 | 0.00 | Unavail | |
| 13:25-13:30 | 100.00 | 1085.11 | 97.15 | 0.00 | 0.00 | 0.00 | Unavail | |

I can select the 5 minute interval Time period column rows and navigate to the Interval CPU Utilization By Address Space workspace

Near Term History: CPC and LPAR

- In all periods during the time-frame I see address space FLASHSCM consuming over 500% standard CP. This started task is used for stress testing purpose during designated off-peak hours. I inform the owner so that the task will not be started during peak-period in future.

File Edit View Tools Navigate Help 07/24/2014 16:42:58

Command ==> Auto Update : Off
 KMSASP1H* Interval CPU Utilization By Address Space Plex ID : M5530LGH
 SMF ID : SYS

Actual Reporting Timeframe For Requested Period 13:30-13:35

Report Interval Start Time..... 13:30:00 Report Interval End Time..... 13:35:00

CPU Utilization

Columns 2 to 9 of 18 Rows 1 to 44 of 96

| Job Name | Service Class | Service Class Period | ΔCPU %Percent | GCP Percent Including Enclave Home SRB Time | IFA Percent Including Enclave Home SRB Time | zIIP Percent Including Enclave Home SRB Time | IFA on CP Percent | +zIIP on C Percent |
|----------|---------------|----------------------|---------------|---|---|--|-------------------|--------------------|
| FLASHSCM | DISCRBAT | 1 | 525.6 | 525.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| CICS3A2A | CI2V60 | 1 | 167.7 | 167.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| MQQ2S12S | STCI2V30 | 1 | 124.4 | 119.6 | 0.0 | 4.8 | 0.0 | 1.5 |
| CSQ2MSTR | STCI2V40 | 1 | 21.3 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| CONNRP1 | DISCRSTC | 1 | 20.2 | 20.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| DBX2DBM1 | STCI2V50 | 1 | 19.6 | 8.2 | 0.0 | 11.3 | 0.0 | 0.0 |
| DBX2DIST | DDF | 1 | 14.9 | 14.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| CICS6A2A | CI2V60 | 1 | 13.2 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| DBXGWLH7 | STCI2V50 | 1 | 10.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TCPIP | SYSSTC | 1 | 9.2 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Z252D2 | SYSSTC | 1 | 6.2 | 4.5 | 0.0 | 1.6 | 0.0 | 0.0 |
| CSQ2BRK | STCI2V30 | 1 | 4.8 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C2PACHON | DISCRSTC | 1 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CATALOG | SYSTEM | 1 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| XCFAS | SYSTEM | 1 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| DFHSM | SYSSTC | 1 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| CICS6T2A | CI2V60 | 1 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| DBX2MSTR | STCI2V50 | 1 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSWS2 | DISCOMVS | 1 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| MQQ2S12 | STCI2V30 | 1 | 2.5 | 2.2 | 0.0 | 0.2 | 0.0 | 0.0 |
| RASP | SYSTEM | 1 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| WLM | SYSTEM | 1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRS | SYSTEM | 1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Z251CS | SYSSTC | 1 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| WST5S12 | STCI2V50 | 1 | 1.5 | 0.3 | 0.0 | 1.1 | 0.0 | 0.0 |
| CYTAPR22 | DISCRSTC | 1 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSC2S12 | STCI2V50 | 1 | 1.2 | 0.1 | 0.0 | 1.1 | 0.0 | 0.0 |
| TPNSG671 | STCI2V70 | 1 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Z2RRM0 | SVRSTC | 1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| BCD1BTOM | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| SBAGTOB | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| I5D0TOM0 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| CVTZTONG | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5D1622T | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| DBSTOM52 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| M5D0JYG | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |



NTH For CPCs -LPARs – Historical Details For A CPC (KM5CPCDH)

SHARE

File Edit View Tools Navigate Help 07/10/2014 14:08:00

Command ==> KM5CPCDH

Display : HISTORY
Plex ID : ZPETPLX2
CPC : 094E15

Historical Details For A CPC

Interval Statistics for CPC 094E15

| Physical % Standard CP | Physical % zAAP | Physical % zIIP | Physical % IFL | Physical % ICF | Effective MSU Capacity | Capacity Indicator | Adjustment Reason |
|------------------------|-----------------|-----------------|----------------|----------------|------------------------|--------------------|-------------------|
| 96.4 | No zAAPs Online | 100.0 | 6.5 | 100.0 | 5001 | 100 | None |

Standard CP Pool

| LPAR Name | Defined MSU Capacity | Actual MSUs Consumed | Effective Logical CP Percent | Total Logical CP Percent | Effective Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | +Current Weight |
|-----------|----------------------|----------------------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|---------------------|-----------------|
| CT2 | None | 5 | 0.8 | 0.9 | 0.1 | 0.1 | 0.0 | 7.0 | 50 |
| JA0 | None | 1214 | 90.7 | 91.1 | 24.2 | 24.3 | 0.1 | 16.0 | 295 |
| JE0 | None | 245 | 40.8 | 42.0 | 4.8 | 4.9 | 0.1 | 7.0 | 105 |
| JH0 | None | 113 | 19.1 | 19.4 | 2.2 | 2.3 | 0.0 | 7.0 | 75 |
| J80 | None | 1437 | 95.6 | 95.8 | 28.7 | 28.7 | 0.1 | 18.0 | 355 |
| TPN | None | 351 | 59.2 | 60.2 | 6.9 | 7.0 | 0.1 | 7.0 | 200 |
| VMLX01 | None | 4 | 1.0 | 1.3 | 0.1 | 0.1 | 0.0 | 4.0 | 50 |
| VMLX02 | None | 2 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 4.0 | 100 |
| Z1 | None | 799 | 86.8 | 87.1 | 15.9 | 16.0 | 0.1 | 11.0 | 310 |
| Z3 | None | 559 | 60.2 | 60.9 | 11.0 | 11.2 | 0.1 | 11.0 | 90 |
| PHYSICAL | | | | | | 1.9 | 1.3 | | |

zIIP Pool

| LPAR Name | Effective Logical CP Percent | Total Logical CP Percent | Effective Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | Current Weight | Initial Weight | +Minimum Weight |
|-----------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|---------------------|----------------|----------------|-----------------|
| JA0 | 71.9 | 71.9 | 24.0 | 24.0 | 0.0 | 3.0 | 200 | | |
| JE0 | 9.0 | 9.3 | 2.0 | 2.1 | 0.1 | 2.0 | 100 | | |
| JH0 | 5.8 | 5.9 | 1.3 | 1.3 | 0.0 | 2.0 | 100 | | |
| J80 | 71.9 | 71.9 | 24.0 | 24.0 | 0.0 | 3.0 | 200 | | |
| TPN | 2.2 | 2.2 | 0.2 | 0.2 | 0.0 | 1.0 | 100 | | |
| Z1 | 71.8 | 71.9 | 23.9 | 24.0 | 0.0 | 3.0 | 200 | | |
| Z3 | 71.7 | 71.8 | 23.9 | 23.9 | 0.0 | 3.0 | 200 | | |
| PHYSICAL | | | | 0 | | | | | |

IFL Pool

| LPAR Name | Effective Logical CP Percent | Total Logical CP Percent | Effective Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | Current Weight | Initial Weight | +Minimum Weight |
|-----------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|---------------------|----------------|----------------|-----------------|
| VMLX01 | 3.1 | 3.4 | 3.1 | 3.4 | 0.1 | 4.0 | 10 | No | No |
| VMLX03 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | | | | |
| ZGVM2 | 1.9 | 2.0 | 1.9 | 2.0 | | | | | |
| PHYSICAL | | | | 1.1 | | | | | |

12:50 Display 12:55 + 13:00 MOREV

KM5CPCDH is the default navigation from the KM5CPC1H and KM5CPC2H summary workspace rows. KM5CPCDH displays each of a CPC's LPAR statistics by processor pool. These statistics include MSU capacity and capping, physical and logical processor utilizations, IRD weights, Hiperdispatch information, configured storage.



NTH For CPCs and LPARs – Historical Details For A CPC #2 (KM5CPCDH)

File Edit View Tools Navigate Help 07/13/2014 13:56:47

Command ==> KM5CPCDH

Display : HISTORY
Plex ID : ZPETPLX2
CPC : 094E15

Historical Details For A CPC

Interval Statistics for CPC 094E15

Columns 1 to 8 of 8

| Physical % Standard CP | Physical % zAAP | Physical % zIIP | Physical % IFL | Physical % ICF | Effective MSU Capacity | Capacity Indicator | Adjustment Reason |
|------------------------|-----------------|-----------------|----------------|----------------|------------------------|--------------------|-------------------|
| 96.4 | No zAAPs Online | 100.0 | 6.5 | 100.0 | 5001 | 100 | None |

Standard CP Pool

Columns 10 to 19 of 22

| LPAR Name | Current Weight | Initial Weight | Minimum Weight | Maximum Weight | High Share LPs | Medium Share LPs | LP %Share Of Physical | Low Share LPs | LPAR Configured Storage MB | +LPAR Cluster Name |
|-----------|----------------|----------------|----------------|----------------|----------------|------------------|-----------------------|---------------|----------------------------|--------------------|
| CT2 | 50 | 50 | 0 | 0 | 1 | 1 | 84.0 | 5 | 65536 | CT2PLEX |
| JA0 | 295 | 300 | 0 | 0 | 10 | 1 | 85.8 | 5 | 204800 | UTCPLXJ8 |
| JE0 | 105 | 100 | 0 | 0 | 3 | 1 | 86.5 | 3 | 204800 | UTCPLXJ8 |
| JH0 | 75 | 75 | 0 | 0 | 2 | 1 | 76.0 | 4 | 102400 | UTCPLXJ8 |
| J80 | 355 | 350 | 0 | 0 | 12 | 2 | 53.3 | 4 | 204800 | UTCPLXJ8 |
| TPN | 200 | 200 | 0 | 0 | 7 | 0 | 0.0 | 0 | 30720 | UTCPLXJ8 |
| VMLX01 | 50 | | | | 1 | 1 | 84.0 | 2 | 131072 | |
| VMLX02 | 100 | | | | Unavailable | Unavailable | 92.0 | Unavailable | 16384 | |
| Z1 | 310 | 200 | 0 | 0 | 11 | 0 | 0.0 | 0 | 81920 | ZPETPLX2 |
| Z3 | 90 | 200 | 0 | 0 | 2 | 2 | 65.6 | 7 | 81920 | ZPETPLX2 |
| PHYSICAL | | | | | | | | | 0 | |

zIIP Pool

Columns 7 to 16 of 16

| LPAR Name | Average Logical CPs | Current Weight | Initial Weight | Minimum Weight | Maximum Weight | High Share LPs | Medium Share LPs | LP Of | | | |
|-----------|---------------------|----------------|----------------|----------------|----------------|----------------|------------------|-------|---|----|--|
| JA0 | 3.0 | 200 | | | | 1 | 1 | 63.6 | 1 | No | |
| JE0 | 2.0 | 100 | | | | 0 | 1 | 81.8 | 1 | No | |
| JH0 | 2.0 | 100 | | | | 0 | 1 | 81.8 | 1 | No | |
| J80 | 3.0 | 200 | | | | 1 | 1 | 63.6 | 1 | No | |
| TPN | 1.0 | 100 | | | | 0 | 1 | 81.8 | 0 | No | |
| Z1 | 3.0 | 200 | | | | 1 | 1 | 63.6 | 1 | No | |
| Z3 | 3.0 | 200 | | | | 1 | 1 | 63.6 | 1 | No | |
| PHYSICAL | | | | | | | | | | | |

Reverse video blue identifies the LPAR as running in Hiperdispatch Mode

IFL Pool

Columns 4 to 11 of 11

| LPAR Name | Effective Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | Current Weight | Initial Capping Option | Capping Option | Absolute Capacity Limit |
|-----------|-------------------------------|---------------------------|------------------------------|---------------------|----------------|------------------------|----------------|-------------------------|
| VMLX01 | 3.1 | 3.4 | 0.3 | 4.0 | 100 | No | No | Unavailable |
| VMLX03 | 0.0 | 0.0 | 0.0 | 4.0 | 10 | No | No | Unavailable |
| ZGVM2 | 1.9 | 2.0 | 0.1 | 4.0 | 10 | No | No | Unavailable |
| PHYSICAL | | 1.1 | 1.1 | | | | | |

12:50 Display 12:55 13:00 MOREV

NTH For CPCs -LPARs – Hist Details For A CPC #3 (KM5CPCDH)

File Edit View Tools Navigate Help 07/13/2014 14:14:09

Command ==>
KM5CPCDH

Display : HISTORY
Plex ID : ZPETPLX2
CPC : 094E15

Historical Details For A CPC

Interval Statistics for CPC 094E15

| Physical % Standard CP | Physical % zAAP | Physical % zIIP | Physical % IFL | Physical % ICF | Effective MSU Capacity | Capacity Indicator | Adjustment Reason |
|------------------------|-----------------|-----------------|----------------|----------------|------------------------|--------------------|-------------------|
| 96.4 | No zAAPs Online | 100.0 | 6.5 | 100.0 | 5001 | 100 | None |

Standard CP Pool

| LPAR Name | High Share LPs | Medium Share LPs | LP %Share Of Physical | Low Share LPs | LPAR Configured Storage MB | LPAR Cluster Name | Initial Capping Option | Capping Option | Absolute Capacity Limit |
|-----------|----------------|------------------|-----------------------|---------------|----------------------------|-------------------|------------------------|----------------|-------------------------|
| CT2 | 1 | 1 | 84.0 | 5 | 65536 | CT2PLEX | No | No | Unavailable |
| JA0 | 10 | 1 | 85.8 | 5 | 204800 | UTCPLXJ8 | No | No | Unavailable |
| JE0 | 3 | 1 | 86.5 | 3 | 204800 | UTCPLXJ8 | No | No | Unavailable |
| JH0 | 2 | 1 | 76.0 | 4 | 102400 | UTCPLXJ8 | No | No | Unavailable |
| J80 | 12 | 2 | 53.3 | 4 | 204800 | UTCPLXJ8 | No | No | Unavailable |
| TPN | 7 | 0 | 0.0 | 0 | 30720 | UTCPLXJ8 | No | No | Unavailable |
| VMLX01 | 1 | 1 | 84.0 | 2 | 131072 | UTCPLXJ8 | No | No | Unavailable |
| VMLX02 | Unavailable | Unavailable | 92.0 | Unavailable | 16384 | | No | No | Unavailable |
| Z1 | 11 | 0 | 0.0 | 0 | 81920 | ZPETPLX2 | No | No | Unavailable |
| Z3 | 2 | 2 | 65.6 | 7 | 81920 | ZPETPLX2 | No | No | Unavailable |
| PHYSICAL | | | | | 0 | | | | |

Absolute Capacity Limit specifies the LPAR CPU resource capacity limit in 1/100ths of a physical CP

zIIP Pool

| LPAR Name | Average Logical CPs | Current Weight | Initial Weight | Minimum Weight | Maximum Weight | High Share LPs | Medium Share LPs | LP % Of Physical | Capping |
|-----------|---------------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|---------|
| JA0 | 3.0 | 200 | | | | 1 | 1 | 81.8 | 1 No |
| JE0 | 2.0 | 100 | | | | 0 | 1 | 63.6 | 1 No |
| JH0 | 2.0 | 100 | | | | 0 | 1 | 81.8 | 0 No |
| J80 | 3.0 | 200 | | | | 1 | 1 | 63.6 | 1 No |
| TPN | 1.0 | 100 | | | | 0 | 1 | 63.6 | 1 No |
| Z1 | 3.0 | 200 | | | | 1 | 1 | | |
| Z3 | 3.0 | 200 | | | | 1 | 1 | | |
| PHYSICAL | | | | | | | | | |

IFL Pool

| LPAR Name | Effective Physical CP Percent | Total Physical CP Percent | Physical CP Overhead Percent | Average Logical CPs | Current Weight | Initial Capping Option | Capping Option | Absolute Capacity Limit |
|-----------|-------------------------------|---------------------------|------------------------------|---------------------|----------------|------------------------|----------------|-------------------------|
| VMLX01 | 3.1 | 3.4 | 0.3 | 4.0 | 100 | No | No | Unavailable |
| VMLX03 | 0.0 | 0.0 | 0.0 | 4.0 | 10 | No | No | Unavailable |
| ZGVH2 | 1.9 | 2.0 | 0.1 | 4.0 | 10 | No | No | Unavailable |
| PHYSICAL | | 1.1 | 1.1 | | | | | |

12:50 Display 12:55 13:00

MOREV



NTH For CPCs -LPARs – Hist Details For An LPAR (KM5LPRDH)

File Edit View Tools Navigate Help 07/10/2014 14:17:20

Command ==>
KM5LPRDH

Display : HISTORY
Plex ID : ZPETPLX2
LPAR : J80

Historical Details For An LPAR

| LPAR J80 On CPC 094E15 - Standard CP Pool | | | |
|---|----------|--------------------------------|----------|
| Defined MSU Capacity..... | None | Actual MSUs Consumed..... | 1437 |
| Effective Logical CP Percent..... | 95.6 | Total Logical CP Percent..... | 95.8 |
| Effective Physical CP Percent..... | 28.7 | Total Physical CP Percent..... | 28.7 |
| Physical CP Overhead Percent..... | 0.1 | Average Logical CPs..... | 18.0 |
| Current Weight..... | 355 | Initial Weight..... | 350 |
| Minimum Weight..... | 0 | Maximum Weight..... | 0 |
| High Share LPs..... | 12 | Medium Share LPs..... | 2 |
| LP %Share Of Physical..... | 53.3 | Low Share LPs..... | 4 |
| LPAR Configured Storage MB..... | 204800 | LPAR Cluster Name..... | UTCPLXJ8 |
| Initial Capping Option..... | No | Capping Option..... | No |
| Absolute Capacity Limit..... | Unavaila | | |

| LPAR J80 On CPC 094E15 - zIIP Pool | | | |
|------------------------------------|------|--------------------------------|------|
| Effective Logical CP Percent..... | 71.9 | Total Logical CP Percent..... | 71.9 |
| Effective Physical CP Percent..... | 24.0 | Total Physical CP Percent..... | 24.0 |
| Physical CP Overhead Percent..... | 0.0 | Average Logical CPs..... | 3.0 |
| Current Weight..... | 200 | Initial Weight..... | |
| Minimum Weight..... | | Maximum Weight..... | |
| High Share LPs..... | 1 | Medium Share LPs..... | 1 |
| LP %Share Of Physical..... | 63.6 | Low Share LPs..... | 1 |
| Initial Capping Option..... | No | | |

The majority of the statistics are well-known from the real-time workspaces but Initial Capping Option, Capping Option and Absolute Capacity Limit may require explanation. Initial Capping Option refers to the Hardware Capping specified through the HMC. Capping Option refers to either a Hardware Cap being set or an Absolute Capacity Limit in units of 1/100ths of a physical CP being set.

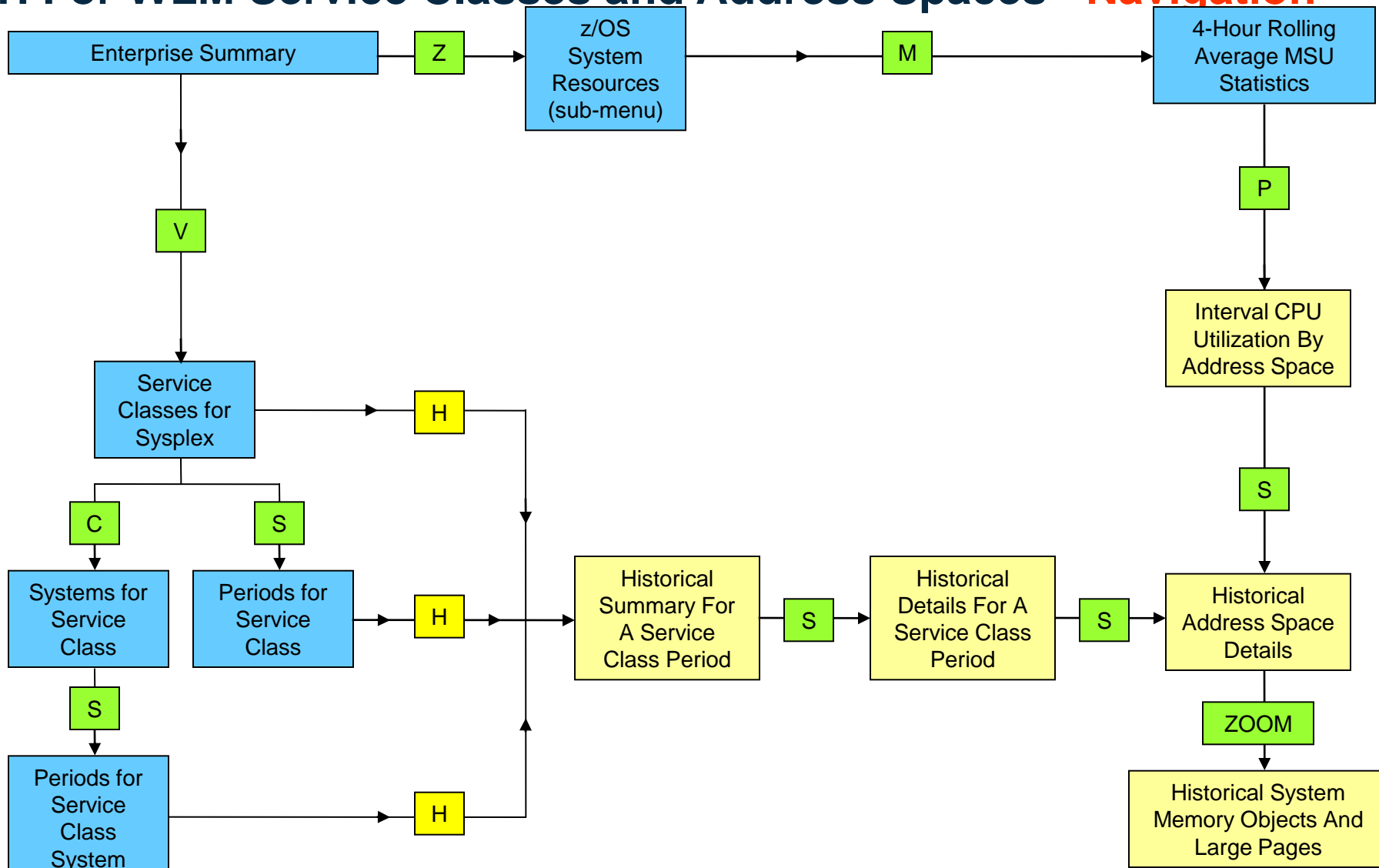
KMLPRDH is the default navigation from any LPAR row in KM5CPCDH. The workspace presents the same statistics as the row information in KM5CPCDH for each processor pool type configured to the LPAR.

12:50 ← Display 12:55 → 13:00

← HISTORY

NEAR TERM HISTORY for WLM SERVICE CLASSES AND ADDRESS SPACES

NTH For WLM Service Classes and Address Spaces - Navigation



Near Term History For WLM Service Classes and Address Spaces

Service Classes for Sysplex (KM5WSCO)

File Edit View Tools Navigate Help 07/12/2014 11:24:27

Command ==> KMSWSCO

Auto Update : Off
Plex ID : ZPETPLX2
SMF ID :

Options Menu

Select an option and then press ENTER

1. A Address Spaces for Service Class
2. B Subsystem Workflow Analysis
3. C Systems for Service Class
4. D Workflow Analysis for Service Class
5. S Periods for Service Class
6. H Historical Summary For Service Class

| | | Summary | | Rows | 1 to | 26 of | 26 |
|----------------|---------------------|------------|-------------------|-----------|---------|-------|----|
| ΔService Class | ΔGoal | ΔGoal Type | ΔTransaction Rate | ΔWorkload | ΔActual | | |
| TS0 | Avg Resp < 2.0 s | AvgResp | 48.5 | TS0 | | | |
| STCI1V9 | Velocity(+I/O) > 90 | Velocio | 0.0 | STC | | | |
| STCI2V7 | Velocity(+I/O) > 70 | Velocio | 0.0 | STC | | | |
| BATI1V90 | Velocity(+I/O) > 90 | Velocio | 0.0 | BATCH | | | |
| STCI1V40 | Velocity(+I/O) > 40 | Velocio | 0.0 | STC | | | |
| STCI2V50 | Velocity(+I/O) > 50 | Velocio | 0.0 | STC | | | |
| BATI2V50 | Velocity(+I/O) > 50 | Velocio | 0.0 | BATCH | | | |
| CI2V60 | Velocity(+I/O) > 60 | Velocio | 0.0 | CICS | | | |
| STCI2V30 | Velocity(+I/O) > 30 | Velocio | 0.0 | STC | | | |
| STCI1V30 | Velocity(+I/O) > 30 | Velocio | 0.0 | STC | | | |
| WI180%01 | Pct Resp | PctResp | 122.4 | WAS | | | |
| I1390%P7 | Pct Resp | PctResp | 0.6 | THE | | | |
| I1290%P5 | Velocity(+I/O) > 5 | Velocio | 3221.7 | STC | | | |
| CI190%P5 | Velocity(+I/O) > 60 | Velocio | 0.0 | STC | | | |
| CI390%01 | Discretionary | Discret | 25.9 | STC | | | |
| CI350%10 | Velocity(+I/O) > 40 | Velocio | 0.0 | STC | | | |
| STCI2V40 | Discretionary | Discret | 0.0 | STC | | | |
| DDF | Discretionary | Discret | 0.5 | BATCH | | | |
| STCI2V60 | Sys Goal | SysGoal | 0.0 | SYSTEM | | | |
| DISCOMVS | Sys Goal | SysGoal | 0.0 | SYSTEM | | | |
| STCI3V40 | Velocity(+I/O) > 50 | Velocio | 0.0 | STC | | | |
| DISCRSTC | | | | | | | |
| DISCRBAT | | | | | | | |
| SYSTEM | | | | | | | |
| SYSSTC | | | | | | | |
| STCI3V50 | | | | | | | |

A new H navigation option on the Service Classes for Sysplex workspace navigates to the most recent 2 hours (by default) of statistics for a selected service class period (workspace KM5WSCO)

Near Term History For WLM Service Classes and Address Spaces

Historical Summary For A Service Class Period (KM5WSCOH)

File Edit View Tools Navigate Help 07/13/2014 11:31:14

Command ==> KM5WSCOH Historical Summary For A Service Class Period

Display : HISTORY
Plex ID : ZPETPLX2
SMF ID :

Service Class TSO Period 1 (Goal = Avg Resp < 2.0 s)

Columns 1 to 5 of 5

| Goal Importance | Duration | Service Class Description | Workload Name | Resource Group |
|-----------------|-------------|---------------------------|---------------|----------------|
| High | Unavailable | TSO workload | TSO | |

Historical Summary

Columns 3 to 8 of 8

| Recording Date/Time | Performance Index | Actual | Avg. Resp. Time | Avg. Wait Time | Avg. Exec. Time | Trans. Rate | Service Class SUs/Second |
|---------------------|-------------------|--------|-----------------|----------------|-----------------|-------------|--------------------------|
| 14/07/13 11:30:00 | 1.89 | 0 | 3.781 | 0.000 | 3.781 | 46.040 | 66906.940 |
| 14/07/13 11:25:00 | 1.85 | 0 | 3.698 | 0.000 | 3.698 | 45.950 | 61208.370 |
| 14/07/13 11:20:00 | 1.67 | 0 | 3.347 | 0.000 | 3.347 | 48.700 | 59869.650 |
| 14/07/13 11:15:00 | 1.78 | 0 | 3.554 | 0.000 | 3.554 | 49.270 | 64062.560 |
| 14/07/13 11:10:00 | 1.67 | 0 | 3.347 | 0.000 | 3.347 | 48.050 | 67584.250 |
| 14/07/13 11:05:00 | 1.74 | 0 | 3.486 | 0.000 | 3.486 | 47.910 | 60542.820 |
| 14/07/13 11:00:00 | 1.84 | 0 | 3.689 | 0.000 | 3.689 | 47.360 | 63307.360 |
| 14/07/13 10:55:00 | 1.72 | 0 | 3.445 | 0.000 | 3.445 | 47.670 | 63746.980 |
| 14/07/13 10:50:00 | 1.89 | 0 | 3.771 | 0.000 | 3.771 | 47.960 | 69751.810 |
| 14/07/13 10:45:00 | 1.77 | 0 | 3.548 | 0.000 | 3.548 | 46.010 | 60411.730 |
| 14/07/13 10:40:00 | 1.81 | 0 | 3.614 | 0.000 | 3.614 | 46.110 | 64733.700 |
| 14/07/13 10:35:00 | 1.69 | 0 | 3.378 | 0.000 | 3.378 | 49.410 | 69263.500 |
| 14/07/13 10:30:00 | 1.69 | 0 | 3.389 | 0.000 | 3.389 | 49.250 | 65020.480 |
| 14/07/13 10:25:00 | 1.79 | 0 | 3.571 | 0.000 | 3.571 | 48.400 | 60026.450 |
| 14/07/13 10:20:00 | 1.71 | 0 | 3.428 | 0.000 | 3.428 | 46.940 | 70631.190 |
| 14/07/13 10:15:00 | 1.81 | 0 | 3.618 | 0.000 | 3.618 | 48.250 | 65534.930 |
| 14/07/13 10:10:00 | 1.72 | 0 | 3.439 | 0.000 | 3.439 | 48.200 | 57659.200 |
| 14/07/13 10:05:00 | 1.78 | 0 | 3.551 | 0.000 | 3.551 | 48.870 | 70651.190 |
| 14/07/13 10:00:00 | 1.85 | 0 | 3.705 | 0.000 | 3.705 | 47.010 | 63997.170 |
| 14/07/13 09:55:00 | 1.77 | 0 | 3.533 | 0.000 | 3.533 | 46.440 | 62800.640 |
| 14/07/13 09:50:00 | 1.67 | 0 | 3.344 | 0.000 | 3.344 | 48.330 | 67213.250 |
| 14/07/13 09:45:00 | 1.69 | 0 | 3.379 | 0.000 | 3.379 | 49.050 | 58874.240 |
| 14/07/13 09:40:00 | 1.81 | 0 | 3.630 | 0.000 | 3.630 | 47.170 | 65208.110 |
| 14/07/13 09:35:00 | 1.79 | 0 | 3.582 | 0.000 | 3.582 | 46.800 | 65534.240 |
| 14/07/13 09:30:00 | 1.83 | 0 | 3.668 | 0.000 | 3.668 | 47.010 | 72310.560 |
| 14/07/13 09:25:00 | 1.74 | 0 | 3.473 | 0.000 | 3.473 | 47.000 | 64471.000 |
| 14/07/13 09:20:00 | 1.79 | 0 | 3.577 | 0.000 | 3.577 | 47.000 | 64471.000 |
| 14/07/13 09:15:00 | 1.90 | 0 | 3.808 | 0.000 | 3.808 | 46.000 | 63054.130 |
| 14/07/13 09:10:00 | 1.77 | 0 | 3.532 | 0.000 | 3.532 | 46.010 | 68549.060 |
| 14/07/13 09:05:00 | 1.64 | 0 | 3.289 | 0.000 | 3.289 | 48.020 | 63054.130 |
| 14/07/13 09:00:00 | 1.70 | 0 | 3.393 | 0.000 | 3.393 | 46.010 | 68549.060 |
| 14/07/13 08:55:00 | 1.83 | 0 | 3.667 | 0.000 | 3.667 | 45.880 | 65335.140 |
| 14/07/13 08:50:00 | 1.82 | 0 | 3.638 | 0.000 | 3.638 | 48.780 | 71055.810 |
| 14/07/13 08:45:00 | 1.82 | 0 | 3.648 | 0.000 | 3.648 | 48.780 | 71055.810 |
| 14/07/13 08:40:00 | 1.72 | 0 | 3.448 | 0.000 | 3.448 | 48.020 | 63054.130 |
| 14/07/13 08:35:00 | 1.69 | 0 | 3.385 | 0.000 | 3.385 | 46.010 | 68549.060 |
| 14/07/13 08:30:00 | 2.00 | 0 | 4.004 | 0.000 | 4.004 | 45.880 | 65335.140 |
| 14/07/13 08:25:00 | 1.78 | 0 | 3.564 | 0.000 | 3.564 | 48.780 | 71055.810 |
| 14/07/13 08:20:00 | 1.72 | 0 | 3.447 | 0.000 | 3.447 | 48.780 | 71055.810 |

11 July 23:31 to 13 July 11:31

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

KM5WSCOH displays the service class period performance index, performance against goal, response time components, transaction rate and service unit consumption.

Near Term History For WLM Service Classes and Address Spaces

Historical Details For A Service Class Period (KM5WSCDH)

File Edit View Tools Navigate Help 07/13/2014 11:33:32

Command ==> KM5WSCDH

Display : HISTORY
Plex ID : ZPETPLX2
SvcClass : ISO

Historical Details For A Service Class Period

Service Class ISO Period 1 (Goal = Avg Resp < 2.0 s)

| Performance Index | Actual | Avg. Resp. Time | Avg. Wait Time | Avg. Exec. Time | Trans. Rate | Service Class SUs/Second |
|-------------------|--------|-----------------|----------------|-----------------|-------------|--------------------------|
| 1.60 | 0 | 3.378 | 0.000 | 3.378 | 49.410 | 69263.500 |

Service Class Period CPU

| CPU Percent | GCP Percent Including Enclave Home SRB Time | IFA Percent Including Enclave Home SRB Time | zIIP Percent Including Enclave Home SRB Time | IFA on CP Percent | zIIP on CP Percent | TCB Percent | SRB Percent | Job CPU Time |
|-------------|---|---|--|-------------------|--------------------|-------------|-------------|--------------|
| 136.9 | 50.1 | 0.0 | 86.9 | 0.0 | 22.9 | 136.8 | 0.0 | 408.58 |

Service Class Period Address Space CPU

| Job Name | ASID | SMF ID | ΔCPU VPercent | GCP Percent Including Enclave Home SRB Time | IFA Percent Including Enclave Home SRB Time | zIIP Percent Including Enclave Home SRB Time | IFA on CP Percent | zIIP on CP Percent | +TCB Percent |
|----------|------|--------|---------------|---|---|--|-------------------|--------------------|--------------|
| U020007 | 020C | Z1 | 26.4 | 7.5 | 0.0 | 18.9 | 0.0 | 5.0 | 26.4 |
| U020009 | 02EE | Z1 | 26.1 | 7.5 | 0.0 | 18.7 | 0.0 | 5.0 | 26.1 |
| U020008 | 0026 | Z1 | 26.0 | 7.8 | 0.0 | 18.2 | 0.0 | 5.4 | 26.0 |
| U020010 | 02F9 | Z1 | 24.9 | 7.4 | 0.0 | 17.5 | 0.0 | 5.0 | 24.8 |
| U020006 | 02EF | Z1 | 17.8 | 4.2 | 0.0 | 13.6 | 0.0 | 2.5 | 17.8 |
| U050017 | 02DC | Z1 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| U050027 | 02B6 | Z1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| U050003 | 0284 | Z1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| U050007 | 02B9 | Z1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| U050012 | 02B2 | Z1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| U050004 | 02A7 | Z1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| U040016 | 02B1 | Z1 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| U040024 | 0298 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040030 | 02C6 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040008 | 02B8 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U070007 | 029A | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040020 | 0274 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040019 | 0289 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U070023 | 02B0 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040006 | 02CE | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040005 | 02DB | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U070030 | 02CB | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U070015 | 02AE | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040018 | 029E | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040027 | 02AA | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U070002 | 02AF | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040004 | 02BA | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040021 | 02C1 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040007 | 0292 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| U040003 | 0291 | Z1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |

10:30 + Display 10:35 + 10:40 HISTORY

KM5WSCDH displays CPU statistics for all address spaces running in the service class period during the selected reporting period, 10:30-10:35 in this example.

Near Term History For WLM Service Classes and Address Spaces

Historical Details For An Address Space(KM5ASP3H)

```

File Edit View Tools Navigate Help 07/14/2014 15:07:15
Command ==>
KM5ASP3H
Display : HISTORY
Plex ID : ZPFTPLX2
SMF ID : Z1
Historical Details For An Address Space

CPU Used By U020008 0x0026
Service Class..... TSO CPU Percent..... 27.1
GCP Percent Including Enclave Home SRB Time..... 5.6 IFA Percent Including Enclave Home SRB Time..... 0.0
zIIP Percent Including Enclave Home SRB Time..... 21.6 IFA on CP Percent..... 0.0
zIIP on CP Percent..... 2.8 TCB Percent..... 27.1
SRB Percent..... 0.0 Job CPU Time..... 81.44
Job Additional SRB Service Percent..... 0.0 Job Preemptable Home SRB Service Percent..... 0.0
CPU Percent Excluding Home SRB Time..... 27.1 Time On CP Percent..... 5.6

Real Storage Used By U020008 0x0026
Total Frames..... 7638 Active Frames..... 6812
Page-In Rate..... 0 Active Frames Working Set..... 8853
Active Frames Fixed..... 185 Active Frames DIV..... 1
Idle Frames..... 826 Auxiliary Storage Slots..... 5
Shared Page-In Rate..... 0 Shared Pages Total Valid..... 2
Memory Objects Allocated..... 2

Common Storage Used By U020008
Amount CSA In Use..... 136 Percentage CSA In Use..... 0
Amount SQA In Use..... 96 Percentage SQA In Use..... 0
Amount ECSA In Use..... 2580 Percentage ECSA In Use..... 0
Amount ESQA In Use..... 529 Percentage ESQA In Use..... 0
Elapsed Time..... 371520

Memory Objects/Large Pages Used By
Avg MemObjs Allocated..... 4 Avg MemObjs HV Shared..... 0
Avg MemObjs Backed By 1MB Frames..... 0 Avg 1MB Fixed Frames..... Unavaila
Avg 1MB Frames..... Unavaila Avg 1MB Pages Backed In Central..... 0
Average Storage..... 4194304 Avg Storage HV Common..... 0
Avg Storage HV Shared..... 0 Avg Storage HV Private..... 4194304
High Water Mark HV Common..... 0 Memory Limit..... 2048

```

Placing cursor on highlighted Memory Objects Allocated display line and pressing Enter will navigate to Historical System Memory Objects And Large Pages workspace KM5STG1H for the system the address space is active on.

KM5ASP3H displays CPU and Storage statistics for an address space including standard and specialty processor CPU consumption, real-storage, common storage and large page/memory object statistics.

Near Term History For WLM Service Classes and Address Spaces Historical System Memory Objects And Large Pages(KM5STG1H)

```

----- File Edit View Tools Navigate Help 07/18/2014 13:47:40
Command ==>
KM5STG1H Historical System Memory Objects And Large Pages Display : HISTORY
Plex ID : ZPETPLX2
SMF ID : Z3

Memory Objects Used On System Z3

Avg MemObjs HV Common..... 208 Avg MemObjs HV Shared..... 21
Avg HV Shared Backed In Central..... 278 HV Shared Percent In Use..... 0.5
Avg HV Common Backed In Central..... 105 HV Common Percent In Use..... 48.0
Avg HV Common Fixed Frames..... 5498 Avg HV Shared Auxiliary Slots..... 0
Avg HV Common Auxiliary Slots..... 0 Avg Fixed MemObjs Available For 1MB Frames..... 7
Avg Fixed Common MemObjs Available For 1MB Frames..... 3 Avg Fixed Common MemObjs Inactive 1MB Frames..... 0
Avg 1MB Pages Backed In Central..... 267 Percent 1MB Pages Used By MemObjs..... 8.6
Avg Fixed 1MB Frames Available To MemObjs..... 3072 Avg Fixed 1MB Pages Built By 4K Pages..... 0
Avg Common 1MB Pages Backed In Central..... 11 Avg Common 1MB Pages Orphaned..... 0
Percent 1MB Frames Used In LFAREA..... 86 Avg Pageable 1MB Frames Available To MemObjs..... Unavaila
Avg 1MB Pages Built By 4K Pages..... Unavaila Avg 1MB LFAREA Frames Used For 1MB Pages..... Unavaila
Avg 1MB Pages Failed Requests..... Unavaila Avg 1MB Pages Demoted/Converted Requests..... Unavaila
Percent 1MB Frames Used By MemObjs..... Unavaila

```

KM5STG1H displays 12 memory object statistics and 13 1 MB large page statistics. These include 64-bit page counts and percent usage in Common and Shared areas, 1 megabyte frames converted to 4K frames, percent 1 megabyte frames used, pageable 1 megabyte frame statistics.

Near Term History For WLM Service Classes and Address Spaces

Interval CPU Utilization By Address Space (KM5ASP1H)

File Edit View Tools Navigate Help 07/18/2014 14:12:45

Command **>
KM5MSUO*

Auto Update : Off
Plex ID : M5530LGH
SMF ID : SYS

Options Menu

Select an option and then press ENTER

1. S CPC Details and LPAR Clusters
2. P Interval CPU Utilization By Address Space

verage MSU Statistics

LPAR

69 LPAR Defined Capacity Set..... No
21.6 Average % Time Capped..... Unavaila
320 Average % Time Uncapped..... Unavaila
itled

LPAR Group

| LPAR Group Name | Average Unused Group MSUs | LPAR Capacity | Group LPAR MSU Limit |
|-----------------|---------------------------|---------------|----------------------|
| Unavailable | Unavailable | Unavailable | Unavailable |

5 Minute Intervals

Columns 2 to 8 of 8 Rows 15 to 48 of 48

| Time Period | % Time Uncapped | Uncapped MSUs/Hour | % LPAR Uncapped | % Time Capped | % LPAR Capped | Unused Group MSUs/Hour |
|---------------|-----------------|--------------------|-----------------|---------------|---------------|------------------------|
| - 13:00-13:05 | 100.00 | 85.13 | 26.60 | 0.00 | 0.00 | Unavailable |
| - 12:55-13:00 | 100.00 | 61.73 | 19.29 | 0.00 | 0.00 | Unavailable |
| - 12:50-12:55 | 100.00 | 60.83 | 19.01 | 0.00 | 0.00 | Unavailable |
| - 12:45-12:50 | 100.00 | 61.98 | 19.37 | 0.00 | 0.00 | Unavailable |
| - 12:40-12:45 | 100.00 | 63.47 | 19.83 | 0.00 | 0.00 | Unavailable |
| - 12:35-12:40 | 100.00 | 61.75 | 19.30 | 0.00 | 0.00 | Unavailable |
| - 12:30-12:35 | 100.00 | 61.81 | 19.32 | 0.00 | 0.00 | Unavailable |
| - 12:25-12:30 | 100.00 | 62.73 | 19.60 | 0.00 | 0.00 | Unavailable |
| - 12:20-12:25 | 100.00 | 60.93 | 19.04 | 0.00 | 0.00 | Unavailable |
| - 12:15-12:20 | 100.00 | 61.96 | 19.36 | 0.00 | 0.00 | Unavailable |
| - 12:10-12:15 | 100.00 | 84.73 | 26.48 | 0.00 | 0.00 | Unavailable |
| - 12:05-12:10 | 100.00 | 62.38 | 19.49 | 0.00 | 0.00 | Unavailable |
| - 12:00-12:05 | 100.00 | 59.89 | 18.72 | 0.00 | 0.00 | Unavailable |
| - 11:55-12:00 | 100.00 | 65.51 | 20.47 | 0.00 | 0.00 | Unavailable |
| - 11:50-11:55 | 100.00 | 122.87 | 38.40 | 0.00 | 0.00 | Unavailable |
| - 11:45-11:50 | 100.00 | 60.55 | 18.92 | 0.00 | 0.00 | Unavailable |
| - 11:40-11:45 | 100.00 | 61.09 | 19.09 | 0.00 | 0.00 | Unavailable |
| - 11:35-11:40 | 100.00 | 62.54 | 19.54 | 0.00 | 0.00 | Unavailable |
| - 11:30-11:35 | 100.00 | 66.90 | 20.91 | 0.00 | 0.00 | Unavailable |
| - 11:25-11:30 | 100.00 | 65.85 | 20.58 | 0.00 | 0.00 | Unavailable |
| - 11:20-11:25 | 100.00 | 64.87 | 20.27 | 0.00 | 0.00 | Unavailable |
| - 11:15-11:20 | 100.00 | 63.54 | 19.86 | 0.00 | 0.00 | Unavailable |
| - 11:10-11:15 | 100.00 | 65.63 | 20.51 | 0.00 | 0.00 | Unavailable |
| - 11:05-11:10 | 100.00 | 65.13 | 20.35 | 0.00 | 0.00 | Unavailable |
| - 11:00-11:05 | 100.00 | 70.44 | 22.01 | 0.00 | 0.00 | Unavailable |
| - 10:55-11:00 | 100.00 | 87.56 | 27.36 | 0.00 | 0.00 | Unavailable |
| - 10:50-10:55 | 100.00 | 92.03 | 28.76 | 0.00 | 0.00 | Unavailable |
| - 10:45-10:50 | 100.00 | 93.90 | 29.34 | 0.00 | 0.00 | Unavailable |
| - 10:40-10:45 | 100.00 | 89.28 | 27.90 | 0.00 | 0.00 | Unavailable |
| - 10:35-10:40 | 100.00 | 85.37 | 26.68 | 0.00 | 0.00 | Unavailable |
| - 10:30-10:35 | 100.00 | 87.11 | 27.22 | 0.00 | 0.00 | Unavailable |
| - 10:25-10:30 | 100.00 | 95.17 | 29.74 | 0.00 | 0.00 | Unavailable |
| - 10:20-10:25 | 100.00 | 87.51 | 27.35 | 0.00 | 0.00 | Unavailable |
| - 10:15-10:20 | 100.00 | 85.65 | 26.77 | 0.00 | 0.00 | Unavailable |

Friday July 18 2014

The existing 4-Hour Rolling Average MSU Statistics workspace KM5MSUO has new navigation option "P" to navigate to the Interval CPU Utilization By Address Space workspace KM5ASP1H.

Near Term History For WLM Service Classes and Address Spaces Interval CPU Utilization By Address Space (KM5ASP1H)

File Edit View Tools Navigate Help 07/18/2014 14:25:35

Command ==> KM5ASP1H* Interval CPU Utilization By Address Space

Auto Update : Off
Plex ID : M5530LGH
SMF ID : SYS

Actual Reporting Timeframe For Requested Period 11:50-11:55

Report Interval Start Time..... 11:50:00 Report Interval End Time..... 11:55:00

CPU Utilization

Columns 2 to 9 of 18 Rows 1 to 44 of 99

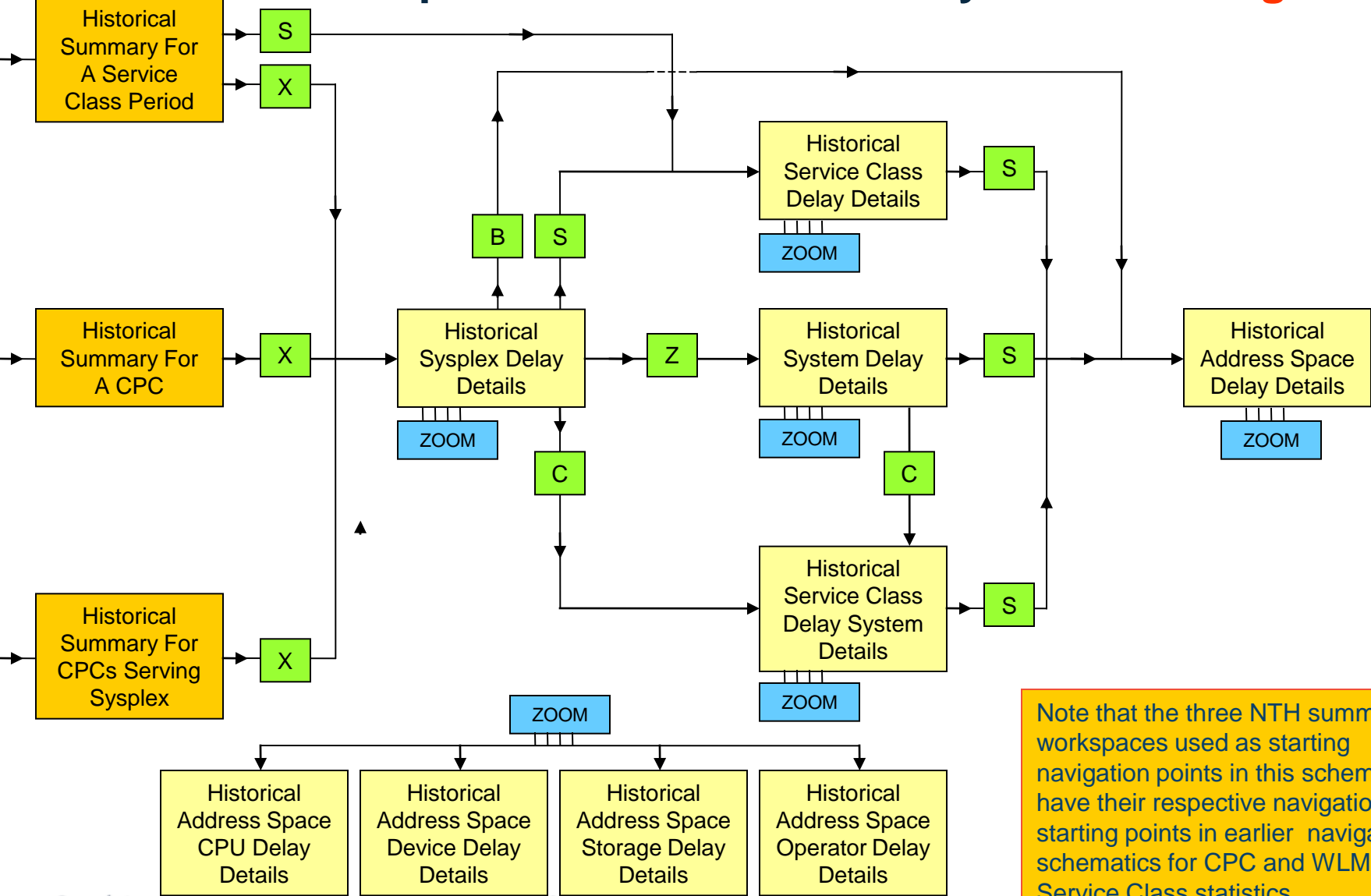
| Job Name | Service Class | Service Class Period | ΔCPU VPercent | GCP Percent Enclave Home SRB Time | IFA Percent Including Enclave Home SRB Time | zIIP Percent Including Enclave Home SRB Time | IFA on CP Percent | +zIIP on C Percent |
|-----------|---------------|----------------------|---------------|-----------------------------------|---|--|-------------------|--------------------|
| EMEHUXA | BATCH | 2 | 72.3 | 72.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| M500LI01 | STC | 2 | 14.6 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| M500LI02 | STC | 2 | 14.5 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| DBS02520 | STC | 2 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BKEALIO2 | BATCH | 2 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| BKEALIO1 | BATCH | 2 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| WLH | SYSTEM | 1 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OHPHDS | STC | 2 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| OMT2DSSG | STC | 2 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| SGLASYSG | STCPROD | 1 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| S8HUBLL | STC | 2 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| RMFGAT | SYSSTC | 1 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| OMD2RTEH | STC | 2 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5D1622L | STC | 2 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| OMT1BCDG | STC | 2 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| M500TLGX | STC | 2 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| M530DTOM | SYSSTC | 1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| LAT0DSSG | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| OMT1BCSG | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| S8AGTOB | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| I500TOM0 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5D1622H | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| M5S2L2TH | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| M5S1TOM | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| OHPTOM | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5B0TOM1 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| I500BTOM | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| M500JYG | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5D1622T | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5B0TOM0 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| BCD1BTOM | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| DBS1TOM52 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C5D1622S | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| CVT2TOMG | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| I500JHT0 | STC | 2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| S8HUB1 | STC | 2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| OMT1GWSG | STC | 2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| M500RHTG | STC | 2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| TCPIPG | SYSSTC | 1 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| VTAM25 | SYSSTC | 1 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| M500HAHB | STC | 2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| S4S0DS61 | STC | 2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| XCFAS | SYSTEM | 1 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| I500BHB0 | STC | 2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |

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The 1st sub-panel shows the time interval the statistics in the second sub-panel actually represent. The sub-panel header displays the time range of the row navigated from in KM5MSUO

The statistics for the time interval show the processor utilizations in descending CPU Percent sequence. This navigation is useful to determine the address space(s) that may be creating a "spike" in CPU consumption and pushing the 4-hour Rolling Average towards its limits.

NTH For Address Space Execution and Delay States- Navigation



Note that the three NTH summary workspaces used as starting navigation points in this schematic have their respective navigation starting points in earlier navigation schematics for CPC and WLM Service Class statistics.

Problem Solving – CPU delays on LPAR ?

KM5WSCXH Historical Sysplex Delay Details

Address Space Delays On Sysplex ZPETPLX2

Columns 3 to 11 of 18

| ΔJob ▽Name | ASID | Service Class | ΔSMF ID ▽ | ΔVelocity ▽Percentage | ΔTotal Delay ▽Percentage | ΔTotal Using ▽Percentage | ▽Total CPU _Wait Percentage |
|---------------|------|---------------|--------------|--------------------------|-----------------------------|-----------------------------|--------------------------------|
| FLASHSCM | 0048 | DISCRBAT | Z2 | 50 | 99 | 100 | 99 |
| U0270041 | 028A | DISCOMVS | Z3 | 14 | 84 | 14 | 84 |
| U0270031 | 00F9 | DISCOMVS | Z3 | 13 | 83 | 12 | 83 |
| U0270021 | 026D | DISCOMVS | Z3 | 16 | 82 | 15 | 82 |
| U0270011 | 0125 | DISCOMVS | Z3 | 12 | 82 | | 82 |
| U0270051 | 02A8 | DISCOMVS | Z3 | 14 | 82 | | 82 |
| TWOCITY | 0336 | DISCRSTC | Z1 | 6 | 74 | | 74 |
| ISSBJBP2 | 0043 | DISCRBAT | Z2 | 22 | 46 | | 46 |
| ZFSV15B2 | 0046 | DISCRBAT | Z2 | 9 | 42 | | 42 |
| ZFSV1522 | 004A | DISCRBAT | Z2 | 28 | 41 | | 41 |
| ZFSV15B3 | 0040 | | | 55 | 38 | | 38 |
| ISSBJBP1 | 003D | | | 2 | 34 | 1 | 34 |
| ZFSV1521 | 0042 | | | 47 | 34 | 30 | 34 |
| U0250035 | 0024 | | | 67 | 33 | 66 | 33 |
| LDAPTST0 | 0390 | | | 27 | 30 | 11 | 30 |
| LDAPTST0 | 02DE | | | 22 | 29 | 8 | 29 |
| LDAPTST0 | 0234 | | | 30 | 28 | 12 | 28 |
| ZFSV15B1 | 0043 | DISCRBAT | Z1 | 28 | 27 | 11 | 27 |
| LDAPTST0 | 033B | DISCOMVS | Z1 | 22 | 27 | 8 | 27 |
| WST4S33 | 029B | DISCRSTC | Z3 | 12 | 26 | 4 | 26 |
| LDAPTST0 | 036E | DISCOMVS | Z1 | 17 | 24 | 5 | 24 |
| CSQ1MSTR | 016A | STCI2V40 | Z1 | 75 | 28 | 74 | 23 |
| ZFSV1523 | 0042 | DISCRBAT | Z3 | 57 | 23 | 30 | 23 |
| LDAPTST0 | 0386 | DISCOMVS | Z1 | 40 | 19 | 13 | 19 |
| CICS3A1A | 01A6 | CI2V60 | Z1 | 78 | 18 | 63 | 18 |
| LDAPTST0 | 02F2 | DISCOMVS | Z1 | 16 | 18 | 3 | 18 |
| LDAPTST0 | 038D | DISCOMVS | Z1 | 8 | 18 | 2 | 18 |
| LDAPTST0 | 022E | DISCOMVS | Z1 | 31 | 17 | 8 | 17 |
| CSQ2MSTR | 0286 | STCI2V40 | Z2 | 76 | 23 | 64 | 16 |
| U0820014 | 031F | DISCOMVS | Z1 | 48 | 16 | 15 | 16 |

Annotations:

- Sort CPU Wait (arrow pointing to the Total CPU Wait Percentage column)
- First non DISC Class (arrow pointing to the first non-DISC service class, DISCRSTC)



Near Term History For Address Space Execution and Delay States

Historical Sysplex Delay Details (KM5WSCXH)

File Edit View Tools Navigate Help 07/17/2014 12:09:37

Command ==> KM5WSCXH

Historical Sysplex Delay Details

Address Space Delays On Sysplex ZPETPLX2

Display : HISTORY
Plex ID : ZPETPLX2
SMF ID :

Columns 3 to 11 of 18

Rows 1 to 48 of 772

| ΔJob VName | ASID | Service Class | ΔSMF ID | ΔVelocity VPercentage | ΔTotal Delay VPercentage | ΔTotal Using VPercentage | ΔTotal CPU VWait Percentage | ΔTotal Enqueue VWait Percentage | ΔTotal Device VWait Percentage | ΔTotal Storage VWait Percent |
|------------|------|---------------|---------|-----------------------|--------------------------|--------------------------|-----------------------------|---------------------------------|--------------------------------|------------------------------|
| LHART | 026F | TSO | Z1 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| DFHSM | 0204 | SYSSIC | Z2 | 47 | 100 | 96 | 3 | 0 | 14 | 0 |
| HWSZ2 | 003E | DISCRBAT | Z2 | 0 | 85 | 0 | 0 | 0 | 0 | 0 |
| HWSZ1 | 0042 | DISCRBAT | Z1 | 0 | 84 | 0 | 0 | 0 | 0 | 0 |
| HWSZ3 | 0040 | DISCRBAT | Z3 | 0 | 83 | 0 | 0 | 0 | 0 | 0 |
| FLASHSCH | 02C1 | DISCRBAT | Z2 | 51 | 78 | 81 | 78 | 0 | 0 | 0 |
| ISSBJBP1 | 003C | DISCRBAT | Z1 | 31 | 68 | 30 | 68 | 0 | 0 | 0 |
| CSQ1MSTR | 0176 | STCI2V40 | Z1 | 69 | 46 | 83 | 37 | 0 | 15 | 0 |
| ZFSV15B2 | 0046 | DISCRBAT | Z2 | 13 | 40 | 6 | 40 | 0 | 0 | 0 |
| ZFSV1522 | 004A | DISCRBAT | Z2 | 22 | 31 | 9 | 31 | 0 | 0 | 0 |
| CONNRP1 | 011C | DISCRSTC | Z2 | 37 | 31 | 18 | 31 | 0 | 0 | 0 |
| DFHSM | 01DE | SYSSIC | Z1 | 84 | 25 | 100 | 9 | 0 | 19 | 0 |
| CICS3A1A | 0192 | CI2V60 | Z1 | 77 | 23 | 75 | 23 | 0 | 0 | 0 |
| ZFSV15B1 | 003A | DISCRBAT | Z1 | 40 | 19 | 13 | 19 | 0 | 0 | 0 |
| CSQ2MSTR | 0270 | STCI2V40 | Z2 | 79 | 18 | 67 | 12 | 0 | 8 | 0 |
| ZFSV15B4 | 0046 | DISCRBAT | Z4 | 72 | 18 | 45 | 18 | 0 | 0 | 0 |
| ZFS | 0039 | SYSSIC | Z4 | 85 | 17 | 79 | 7 | 0 | 10 | 0 |
| ZFSV1524 | 0045 | DISCRBAT | Z4 | 72 | 16 | 41 | 16 | 0 | 0 | 0 |
| ZFSV1521 | 0038 | DISCRBAT | Z1 | 49 | 15 | 15 | 15 | 0 | 0 | 0 |
| ZFSV15B3 | 0041 | DISCRBAT | Z3 | 47 | 14 | 12 | 13 | 0 | 0 | 0 |
| U0200055 | 0285 | DISCOMVS | Z1 | 7 | 9 | 1 | 9 | 0 | 0 | 0 |
| U0200039 | 0273 | DISCOMVS | Z1 | 18 | 9 | 2 | 9 | 0 | 0 | 0 |
| U0200045 | 02B0 | DISCOMVS | Z1 | 21 | 9 | 2 | 9 | 0 | 0 | 0 |
| XCFAS | 0006 | SYSTEM | Z4 | 76 | 9 | 26 | 9 | 0 | 0 | 0 |
| U0820014 | 0280 | DISCOMVS | Z1 | 69 | 9 | 20 | 9 | 0 | 0 | 0 |
| U0200018 | 02BA | DISCOMVS | Z1 | 19 | 9 | 2 | 9 | 0 | 0 | 0 |
| CONNRP1 | 0116 | DISCRSTC | Z3 | 77 | 8 | 26 | 8 | 0 | 0 | 0 |
| CICS2A1A | 0193 | CI2V60 | Z1 | 72 | 8 | 22 | 8 | 0 | 0 | 0 |
| WSWS2 | 0158 | DISCOMVS | Z3 | 51 | 8 | 9 | 8 | 0 | 0 | 0 |
| WST4S13 | 0148 | DISCRSTC | Z3 | 23 | 8 | 2 | 8 | 0 | 0 | 0 |
| CONNRP1 | 0114 | DISCRSTC | Z1 | 80 | 8 | 33 | 8 | 0 | 0 | 0 |
| DBX1DIST | 0175 | DDF | Z1 | 58 | 8 | 12 | 8 | 0 | 0 | 0 |
| WSWS2 | 0044 | DISCOMVS | Z2 | 16 | 7 | 1 | 7 | 0 | 0 | 0 |
| OMVS | 0012 | SYSSIC | Z4 | 77 | 7 | 1 | 7 | 0 | 0 | 0 |
| CICS2T1A | 0191 | CI2V60 | Z1 | 64 | 7 | 1 | 7 | 0 | 0 | 0 |
| CSQ1CHIN | 01A4 | STCI2V40 | Z1 | 70 | 7 | 1 | 7 | 0 | 0 | 0 |
| CSQ3MSTR | 0288 | STCI2V40 | Z3 | 84 | 7 | 1 | 7 | 0 | 0 | 0 |
| U0200057 | 0269 | DISCOMVS | Z1 | 35 | 7 | 1 | 7 | 0 | 0 | 0 |
| WST4S33 | 0277 | DISCRSTC | Z3 | 30 | 7 | 1 | 7 | 0 | 0 | 0 |
| U0200035 | 02A0 | DISCOMVS | Z1 | 17 | 7 | 1 | 7 | 0 | 0 | 0 |
| ZFSV1523 | 003D | DISCRBAT | Z3 | 82 | 7 | 1 | 7 | 0 | 0 | 0 |
| DBX2DBM1 | 0186 | STCI2V50 | Z2 | 90 | 7 | 1 | 7 | 0 | 0 | 0 |
| CICS3A2A | 019A | CI2V60 | Z2 | 91 | 7 | 1 | 7 | 0 | 0 | 0 |
| U0200011 | 029F | DISCOMVS | Z1 | 21 | 7 | 1 | 7 | 0 | 0 | 0 |
| U0200041 | 024D | DISCOMVS | Z1 | 17 | 7 | 1 | 7 | 0 | 0 | 0 |
| U020007 | 02B3 | TSO | Z1 | 83 | 7 | 1 | 7 | 0 | 0 | 0 |
| U020009 | 0251 | TSO | Z1 | 82 | 4 | 17 | 4 | 0 | 0 | 0 |
| C2PACHON | 00DA | DISCRSTC | Z2 | 58 | 4 | 6 | 4 | 0 | 0 | 0 |

12:00 Display 12:05 Nothing Later HISTORY

KM5WSCXH displays execution and delay states for all address spaces across the Sysplex in descending Total Delay Percentage sequence. The summary delay category columns support zooming to more detailed statistics in each of the categories by placing the cursor in a row/column and pressing the ENTER key.



Near Term History For Address Space Execution and Delay States

Historical Service Class Delay Details (KM5WSCBH)

File Edit View Tools Navigate Help 07/17/2014 12:31:44

Command ==> KMSWSCBH Historical Service Class Delay Details

Display : HISTORY
Plex ID : ZPETPLX2
SvcClass : DISCRBAT

Service Class DISCRBAT

Columns 1 to 8 of 8 Rows 1 to 1 of 1

| Period | Performance Index | Actual | Avg. Resp. Time | Avg. Wait Time | Avg. Exec. Time | Trans. Rate | Service Class SUs/Second |
|--------|-------------------|-------------|-----------------|----------------|-----------------|-------------|--------------------------|
| 1 | Unavailable | Unavailable | 5.817 | 0.601 | 5.223 | 0.510 | 497052.000 |

Service Class Address Space Delays

Columns 3 to 11 of 17

| ΔJob VName | ASID | ΔSMF ID V | ΔVelocity VPercentage | ΔTotal Delay VPercentage | ΔTotal Using VPercentage | ΔTotal CPU VWait Percentage | ΔTotal Enqueue VWait Percentage | Sub | Force |
|------------|------|-----------|-----------------------|--------------------------|--------------------------|-----------------------------|---------------------------------|-----|-------|
| — HWSZ2 | 003E | Z2 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| — HWSZ3 | 0040 | Z3 | 0 | 85 | 0 | 0 | 0 | 0 | 0 |
| — HWSZ1 | 0042 | Z1 | 0 | 85 | 0 | 0 | 0 | 0 | 0 |
| — FLASHSCH | 02C1 | Z2 | 51 | 80 | 85 | 80 | 0 | 0 | 0 |
| — ISSBJBP1 | 003C | Z1 | 32 | 68 | 32 | 68 | 0 | 0 | 0 |
| — ZFSV15B2 | 0046 | Z2 | 12 | 47 | 6 | 47 | 0 | 0 | 0 |
| — ZFSV1522 | 004A | Z2 | 26 | 31 | 11 | 31 | 0 | 0 | 0 |
| — ZFSV15B3 | 0041 | Z3 | 36 | 25 | 14 | 25 | 0 | 0 | 0 |
| — ZFSV15B1 | 003A | Z1 | 43 | 17 | 13 | 17 | 0 | 0 | 0 |
| — ZFSV1524 | 0045 | Z4 | 69 | 17 | 37 | 17 | 0 | 0 | 0 |
| — ZFSV1523 | 003D | Z3 | 61 | 16 | 26 | 16 | 0 | 0 | 0 |
| — ZFSV15B4 | 0046 | Z4 | 82 | 14 | 63 | 14 | 0 | 0 | 0 |
| — ZFSV1521 | 0038 | Z1 | 80 | 9 | 37 | 9 | 0 | 0 | 0 |
| — ISSBJBP2 | 004B | Z2 | 38 | 2 | 1 | 2 | 0 | 0 | 0 |
| — ISSBJBP3 | 0038 | Z3 | 0 | 2 | 0 | 2 | 0 | 0 | 0 |
| — PDSETST3 | 0038 | Z3 | 67 | 1 | 1 | 1 | 0 | 0 | 0 |
| — PDSETST1 | 003B | Z1 | 67 | 1 | 1 | 1 | 0 | 0 | 0 |

The 1st subpanel displays WLM service class period statistics, one row for each period in the service class.

KM5WSCBH displays execution and delay states for all address spaces for a specific service class in the Sysplex in descending Total Delay Percentage sequence. The summary delay category columns support zooming to more detailed statistics in each of the categories by placing the cursor in a row/column and pressing the ENTER key.

12:10 Display 12:15 12:20 HISTORY



Near Term History For Address Space Execution and Delay States

Historical Service Class Delay System Details (KM5WSCCH)

File Edit View Tools Navigate Help 07/17/2014 12:45:21

Command ==> KM5WSCCH

Display : HISTORY
Plex ID : ZPE1PLX2
SvcClass : DISCRBAT

Historical Service Class Delay System Details

Service Class DISCRBAT

Columns 1 to 8 of 8

| Period | Performance Index | Actual | Avg. Resp. Time | Avg. Wait Time | Avg. Exec. Time | Trans. Rate | Service Cl. SUs/Second |
|--------|-------------------|-------------|-----------------|----------------|-----------------|-------------|------------------------|
| 1 | Unavailable | Unavailable | 5.541 | 0.613 | 4.956 | 0.503 | 473021.000 |

The 1st subpanel displays WLM service class period statistics, one row for each period in the service class.

Service Class Address Space Delays On System Z2

Columns 3 to 11 of 16

Rows 1 to 6 of 6

| ΔJob VName | ASID | ΔVelocity VPercentage | ΔTotal Delay VPercentage | ΔTotal Using VPercentage | ΔTotal CPU VWait Percentage | ΔTotal Enqueue VWait Percentage | ΔTotal Device VWait Percentage | ΔTotal Storage VWait Percentage | ΔTotal Subsystem VWait Percentage | +Tot Wai |
|------------|------|-----------------------|--------------------------|--------------------------|-----------------------------|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|----------|
| - FLASHSCM | 02C1 | 51 | 90 | 93 | 90 | 0 | 0 | 0 | 0 | 0 |
| - HMSZ2 | 003E | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - ZFSV15B2 | 0046 | 11 | 53 | 6 | 53 | 0 | 0 | 0 | 0 | 0 |
| - ZFSV1522 | 004A | 24 | 39 | 12 | 39 | 0 | 0 | 0 | 0 | 0 |
| - PDSETST2 | 003A | 33 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| - ISSBJBP2 | 004B | 33 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

12:25 → Display 12:30 → 12:35

← HISTORY

KM5WSCCH displays execution and delay states for all address spaces for a specific service class on a specific system in the Sysplex in descending Total Delay Percentage sequence. The summary delay category columns support zooming to more detailed statistics in each of the categories by placing the cursor in a row/column and pressing the ENTER key.

NTH For Address Space Execution and Delay States

Historical System Delay Details (KM5WSCZH)

File Edit View Tools Navigate Help 07/17/2014 12:52:19

Command ==> KMSWSCZH Historical System Delay Details

Display : HISTORY
Plex ID : ZPETPLX2
SMF ID : Z2

Address Space Delays On System Z2

Columns 3 to 11 of 17 Rows 1 to 48 of 213

| ΔJob VName | ASID | Service Class | ΔVelocity VPercentage | ΔTotal Delay VPercentage | ΔTotal Using VPercentage | ΔTotal CPU VWait Percentage | ΔTotal Enqueue VWait Percentage | ΔTotal Device VWait Percentage | ΔTotal Storage VWait Percentage | ΔTotal VWait |
|------------|------|---------------|-----------------------|--------------------------|--------------------------|-----------------------------|---------------------------------|--------------------------------|---------------------------------|--------------|
| FLASHSCH | 02C1 | DISCRBAT | 51 | 90 | 93 | 90 | 0 | 0 | 0 | 0 |
| HWSZ2 | 003E | DISCRBAT | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| DBX2DIST | 0284 | DDF | 7 | 75 | 6 | 7 | 0 | 0 | 0 | 0 |
| ZFSV15B2 | 0046 | DISCRBAT | 11 | 53 | 6 | 53 | 0 | 0 | 0 | 0 |
| ZFSV1522 | 004A | DISCRBAT | 24 | 39 | 12 | 39 | 0 | 0 | 0 | 0 |
| CSQ2MSTR | 0270 | STCI2V40 | 72 | 29 | 68 | 22 | 0 | 9 | 0 | 0 |
| CONNAPT | 011C | DISCRSTC | 41 | 23 | 16 | 23 | 0 | 0 | 0 | 0 |
| DFHSM | 0204 | SYSSTC | 89 | 12 | 94 | 2 | 0 | 10 | 0 | 0 |
| WSWS2 | 0044 | DISCOMVS | 19 | 10 | 2 | 10 | 0 | 0 | 0 | 0 |
| CICS3A2A | 019A | CI2V60 | 89 | 9 | 74 | 9 | 0 | 0 | 0 | 0 |
| C2PACHON | 00DA | DISCRSTC | 38 | 8 | 5 | 8 | 0 | 0 | 0 | 0 |
| DBX2DBM1 | 0186 | STCI2V50 | 90 | 5 | 50 | 0 | 0 | 5 | 0 | 0 |
| CYTAPRZ2 | 00F4 | DISCRSTC | 19 | 4 | 1 | 4 | 0 | 0 | 0 | 0 |
| BUYSZ20 | 02B4 | DISCRSTC | 9 | 3 | 0 | 3 | 0 | 0 | 0 | 0 |
| XCFAS | 0006 | SYSTEM | 84 | 3 | 17 | 3 | 0 | 0 | 0 | 0 |
| PDSETST2 | 003A | DISCRBAT | 33 | 3 | 1 | 3 | 0 | 0 | 0 | 0 |
| U0230013 | 01C4 | DISCOMVS | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| CICS2A2A | 0193 | CI2V60 | 83 | 2 | 8 | 2 | 0 | 0 | 0 | 0 |
| TCPIP | 00F6 | SYSSTC | 72 | 2 | 6 | 2 | 0 | 0 | 0 | 0 |
| U0230026 | 02CB | DISCOMVS | 29 | 2 | 1 | 2 | 0 | 0 | 0 | 0 |
| CSQ2BRK | 026C | STCI2V30 | 73 | 2 | 6 | 2 | 0 | 0 | 0 | 0 |
| HQQ2S12S | 01CC | STCI2V30 | 50 | 2 | 2 | 2 | 0 | 0 | 0 | 0 |
| U0230015 | 025D | DISCOMVS | 44 | 2 | 1 | 2 | 0 | 0 | 0 | 0 |
| CICS2T2A | 0196 | CI2V60 | 67 | 2 | 4 | 1 | 0 | 1 | 0 | 0 |
| U0230047 | 0225 | DISCOMVS | 38 | 2 | 1 | 2 | 0 | 0 | 0 | 0 |
| IOSAS | 001B | SYSTEM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 |
| RASP | 0003 | SYSTEM | 73 | 1 | 4 | 1 | 0 | 0 | 0 | 0 |
| Z251TMS | 028A | SYSSTC | 89 | 1 | 5 | 1 | 0 | 0 | 0 | 0 |
| U0230084 | 02FB | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230035 | 02FB | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| HQQ2S12 | 0157 | STCI2V30 | 78 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| U0230088 | 02DE | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| IXGLOGR | 001D | SYSTEM | 90 | 1 | 90 | 0 | 0 | 0 | 0 | 0 |
| U0230062 | 02D5 | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230085 | 02FB | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| CICS6T2A | 0199 | CI2V60 | 67 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| VTAM | 00EA | SYSSTC | 64 | 1 | 64 | 0 | 0 | 0 | 0 | 0 |
| U0230018 | 02D6 | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230048 | 02F0 | DISCOMVS | 60 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230041 | 0262 | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230032 | 0225 | DISCOMVS | 60 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230044 | 02DE | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230035 | 025D | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| DBX2MSTR | 02B3 | STCI2V50 | 92 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230046 | 02D8 | DISCOMVS | 60 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230099 | 017A | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| U0230059 | 017A | DISCOMVS | 50 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| ZFS | 0039 | SYSSTC | 94 | 1 | 9 | 0 | 0 | 0 | 0 | 0 |

12:25 Display 12:30 12:35 HISTORY

KM5WSCZH displays execution and delay states for all address spaces for a specific a specific system in the Sysplex in descending Total Delay Percentage sequence. The summary delay category columns support zooming to more detailed statistics in each of the categories by placing the cursor in a row/column and pressing the ENTER key.



Near Term History For Address Space Execution and Delay States

Historical Address Space Delay Details (KM5ASP4H)

```

File Edit View Tools Navigate Help 07/17/2014 13:25:16
Command **>
KM5ASP4H
Display : HISTORY
Plex ID : ZPE1PLX2
SMF ID : Z2

Historical Address Space Delay Details

Address Space FLASHSCH 0x02C1 Summary Execution/Delay States
Service Class..... DISCRBAT
Total Delay Percentage..... 90
Total CPU Wait Percentage..... 90
Total Enqueue Wait Percentage..... 0
Total Storage Wait Percentage..... 0
Total JES Wait Percentage..... 0
Total XCF Wait Percentage..... 0
Idle Wait Percentage..... 0
Velocity Percentage..... 51
Total Using Percentage..... 93
Capping Wait Percentage..... 0
Total Device Wait Percentage..... 0
Total Subsystem Wait Percentage..... 0
Total HSH Wait Percentage..... 0
Total Operator Wait Percentage..... 0
Unknown Wait Percentage..... 7

Address Space FLASHSCH 0x02C1 CPU Execution/Delay States
GCP Wait Percentage..... 90
zAAP Wait Percentage..... 0
zIIP Wait Percentage..... 0
zAAP On CP Using Percentage..... 0
GCP Using Percentage..... 93
zAAP Using Percentage..... Unavaila
zIIP Using Percentage..... Unavaila
zIIP On CP Using Percentage..... 0

GCP 1st Impactor Job Name..... FLASHSCH | GCP 1st Impactor Percentage..... 90
GCP 2nd Impactor Job Name..... | 73
GCP 3rd Impactor Job Name..... | 72
zAAP 1st Impactor Job Name..... Unavaila
zAAP 2nd Impactor Job Name..... Unavaila
zAAP 3rd Impactor Job Name..... Unavaila
zIIP 1st Impactor Job Name..... Unavaila
zIIP 2nd Impactor Job Name..... Unavaila
zIIP 3rd Impactor Job Name..... Unavaila

Address Space FLASHSCH 0x02C1 Device Execution/Delay States
1st Device Volume Serial.....
2nd Device Volume Serial.....
3rd Device Volume Serial.....
4th Device Volume Serial.....
Total Device Using Percentage..... Unavaila
1st Device Wait Percentage..... Unavaila
2nd Device Wait Percentage..... Unavaila
3rd Device Wait Percentage..... Unavaila
4th Device Wait Percentage..... Unavaila

Address Space FLASHSCH 0x02C1 Storage Execution/Delay States
Common Paging Wait Percentage..... 0
VIO Paging Wait Percentage..... Unavaila
Out And Ready Wait Percentage..... 0
Hiperspace Paging Wait Percentage..... Unavaila
Private Paging Wait Percentage..... 0
Swap Paging Wait Percentage..... 0
XHEM Paging Wait Percentage..... Unavaila
Other Paging Wait Percentage..... 0

Address Space FLASHSCH 0x02C1 Operator Execution/Delay States
Operator Mount Wait Percentage..... 0
Operator Quiesce Wait Percentage..... 0
Operator Reply Wait Percentage..... 0

```

Highlighted (white fields) in summary sub-panel support cursor being placed under them and ENTER key pressed to zoom navigate to detailed workspace related to summary category

KM5ASP4H displays all supported detailed execution and delay states for an address space. The workspace is divided into summary, CPU, device, storage and operator execution/delay sub-panels.



Near Term History For Address Space Execution and Delay States

Historical Address Space CPU Delay Details (KM5DLY1H)

```
File Edit View Tools Navigate Help 07/18/2014 11:06:01
Command ==> KM5DLY1H
Historical Address Space CPU Delay Details
Display : HISTORY
Plex ID : ZPL1PLX2
SMF ID : Z2

Address Space FLASHSCH 0x02C1 CPU Execution/Delay States

GCP Wait Percentage..... 90
zAAP Wait Percentage..... 0
zIIP Wait Percentage..... 0
zAAP On CP Using Percentage... 0
Service Class..... DISCRBAT

GCP Using Percentage..... 98
zAAP Using Percentage..... Unavaila
zIIP Using Percentage..... Unavaila
zIIP On CP Using Percentage... 0

GCP 1st Impactor Job Name..... FLASHSCH
GCP 2nd Impactor Job Name..... CONNRPT
GCP 3rd Impactor Job Name..... *ENCLAVE
zAAP 1st Impactor Job Name.....
zAAP 2nd Impactor Job Name.....
zAAP 3rd Impactor Job Name.....
zIIP 1st Impactor Job Name.....
zIIP 2nd Impactor Job Name.....
zIIP 3rd Impactor Job Name.....

GCP 1st Impactor Percentage..... 90
GCP 2nd Impactor Percentage..... 31
GCP 3rd Impactor Percentage..... 17
zAAP 1st Impactor Percentage..... Unavaila
zAAP 2nd Impactor Percentage..... Unavaila
zAAP 3rd Impactor Percentage..... Unavaila
zIIP 1st Impactor Percentage..... Unavaila
zIIP 2nd Impactor Percentage..... Unavaila
zIIP 3rd Impactor Percentage..... Unavaila

08:35 - Display 08:40 - 08:45 HISTORY
```

In this example we see job FLASHSCM being impacted 90% of the time by itself (self-contention), 31% of the time by job CONNRPT and 17% of the time by enclave work. Note that these top three impact percentages add up to 138% while the GCP Wait Percentage is 90%. This is a characteristic of multi-tasking jobs being impacted in multiple TCBS/SRBs simultaneously and RMF sampling each of them. The GCP Wait Percentage reflects the percentage of time at least 1 TCB/SRB was in CPU contention. The identical considerations apply to the zIIP and zAAP statistics.

Near Term History For Address Space Execution and Delay States

Historical Address Space Device Delay Details (KM5DLY2H)

```

File Edit View Tools Navigate Help 07/18/2014 11:21:14
Command ==>
KM5DLY2H
Historical Address Space Device Delay Details
Address Space DFHSM 0x01DE Device Execution/Delay States
Service Class..... SYSSTC      Total Device Using Percentage..... 100
1st Device Volume Serial..... WXY550  1st Device Wait Percentage..... 6
2nd Device Volume Serial..... WXY571  2nd Device Wait Percentage..... 6
3rd Device Volume Serial..... WXY500  3rd Device Wait Percentage..... 6
4th Device Volume Serial..... P20013  4th Device Wait Percentage..... 6
  
```

In this example we see job DFHSM had to wait for I/O 6% of the reporting interval time against each of the 4 device VOLSERs WXY550, WXY571, WXY500 and P20013. The top 4 devices I/O delays sampled during the reporting interval are displayed in this workspace.



Near Term History For Address Space Execution and Delay States

Historical Address Space Storage Delay Details (KM5DLY3H)

```

File Edit View Tools Navigate Help 07/18/2014 13:28:07
Command ==>
KM5DLY3H
Historical Address Space Storage Delay Details
Display : HISTORY
Plex ID : ZPE1PLX2
SMF ID : Z3

Address Space DB3ZDBM1 0x015F Storage Execution/Delay States
Service Class..... STCI2V50
Private Paging Wait Percentage..... 0
Swap Paging Wait Percentage..... 0
XMEM Paging Wait Percentage..... Unavaila
Other Paging Wait Percentage..... 0
Common Paging Wait Percentage..... 0
VIO Paging Wait Percentage..... Unavaila
Out And Ready Wait Percentage..... 0
Hiperspace Paging Wait Percentage..... Unavaila

Real Storage Used By DB3ZDBM1 0x015F
Total Frames..... 79820
Page-In Rate..... 0
Active Frames Fixed..... 2844
Idle Frames..... 0
Shared Page-In Rate..... 0
Shared Pages Total Valid..... 0
Memory Objects Allocated..... 0
Active Frames..... 79820
Active Frames Working Set..... 79820
Active Frames DIV..... 0
Auxiliary Storage Slots..... 0
Shared Pages Total Views..... 0
Shared Pages Validation Rate..... 0
1 Meg Frames In Real..... 0

Common Storage Used By DB3ZDBM1 0x015F
Amount CSA In Use..... 4096
Amount SQA In Use..... 64
Amount ECSA In Use..... 1038336
Amount ESQA In Use..... 27752
Elapsed Time..... 293760
Percentage CSA In Use..... 0
Percentage SQA In Use..... 0
Percentage ECSA In Use..... 0
Percentage ESQA In Use..... 0
07:40 ← Display 07:45 → 07:50 HISTORY

```

The Historical Address Space Storage Delay Details workspace includes a subpanel displaying percentage delay in any of 8 categories and a subpanel each for real storage consumption and common storage consumption by an address space.

Near Term History For Address Space Execution and Delay States

Historical Address Space Operator Delay Details (KM5DLY4H)

File Edit View Tools Navigate Help 07/18/2014 13:35:10

Command ==> KM5DLY4H

Display : HISTORY
Plex ID : ZBETPLX2
SMF ID : Z9

Historical Address Space Operator Delay Details

Address Space HWSZ3 0x0040 Operator Execution/Delay States

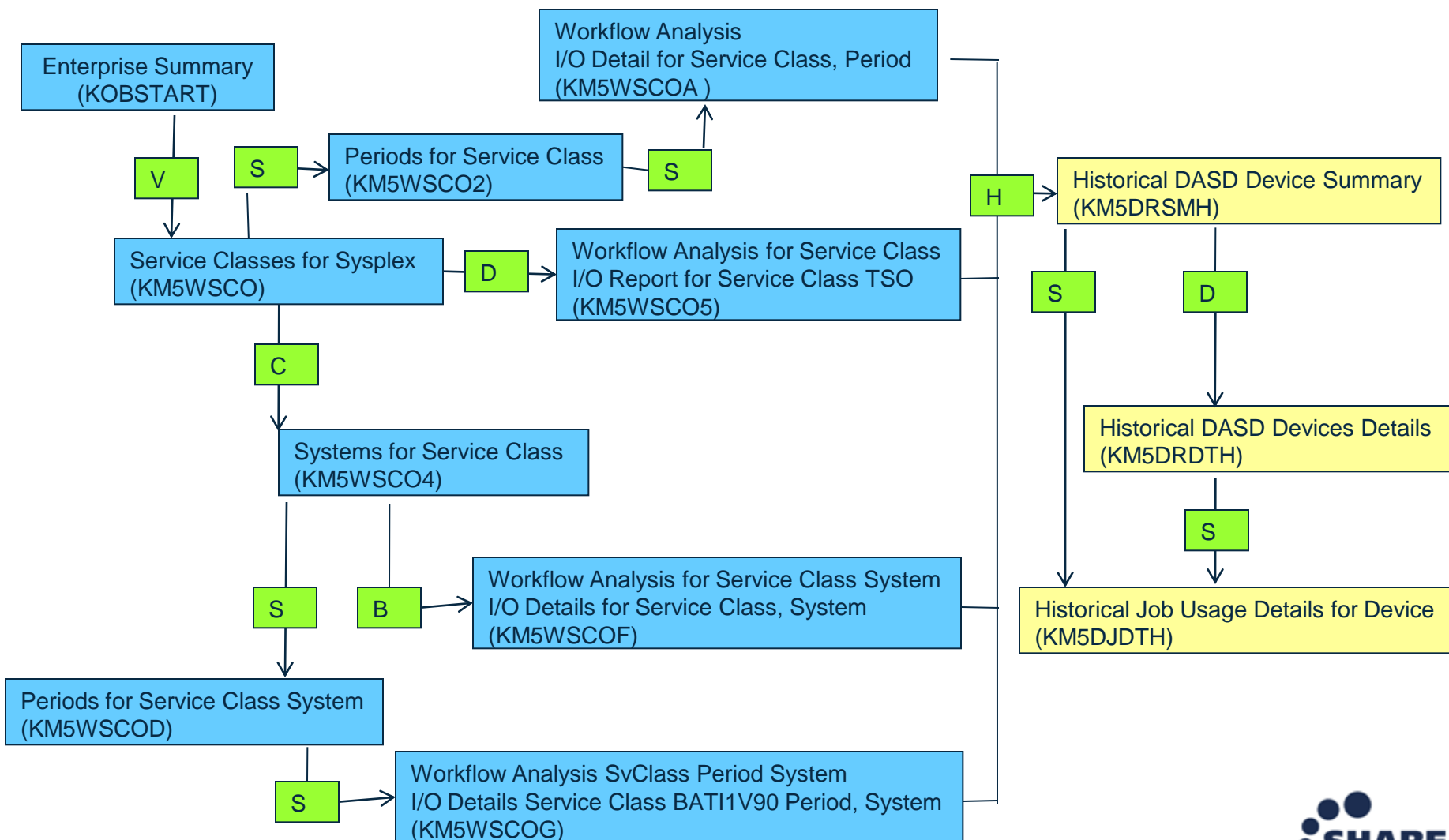
| | | | |
|-------------------------------------|----------|---------------------------------------|---|
| Service Class..... | DISCRBAT | Operator Mount Wait Percentage..... | 0 |
| Operator Reply Wait Percentage..... | 85 | Operator Quiesce Wait Percentage..... | 0 |

07:40 ← Display 07:45 → 07:50 HISTORY

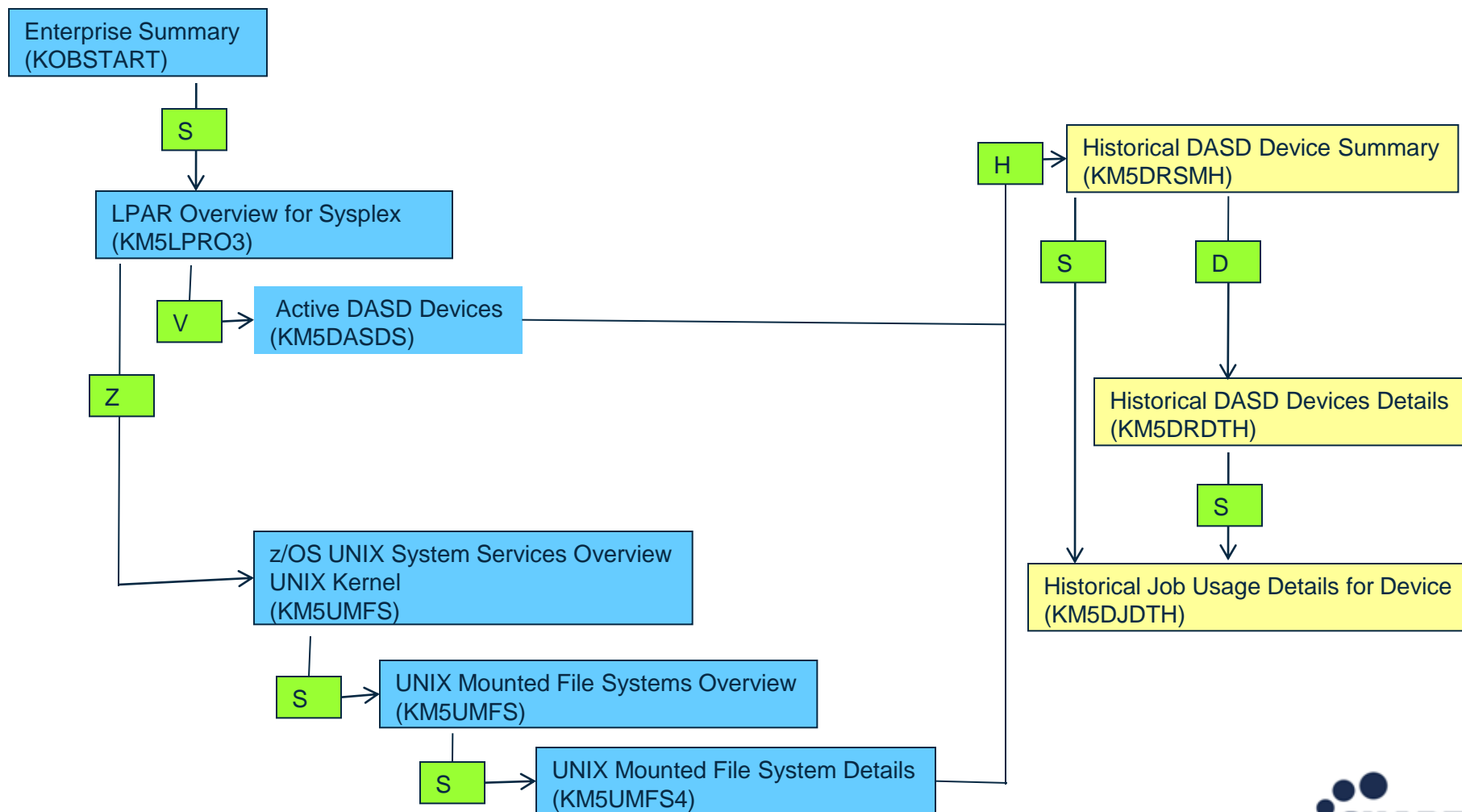
The Historical Address Space Operator Delay Details workspace displays any of three operator delay categories.

Near-term history: DASD Delay

NTH for DASD Device – Navigation (WLM)



NTH for DASD Device – Navigation (DASD & USS)



Embedded Data for CICS and MQ

- Embedded Data workspaces for CICS:
 - z/OS CPU Usage Details → CICS Region Overview
 - CICS Region Overview → z/OS CPU Usage Details
- Embedded Data Workspaces for MQ:
 - MQ Application Details → z/OS CPU Usage Details
 - MQ GSQ CF Details → z/OS CF Details
 - MQ Queue Mgr → z/OS CPU Usage Details

Embedded Data: CICS Rogue Task – Excessive CPU

- Operations Help Desk. Calls about z/OS systems issues come to me as a SME. My phone rings.
- SYMPTOMS – one of our applications teams reports that response times in a CICS region, CICSDE03, on LPAR SP22 are lengthening considerably and most tasks are not completing as they should. The Help Desk has seen this sort of behavior before and it often means that a CICS task has gone rogue, consuming so much CPU that no other work is being done in the region.
- Working on this assumption, we engage an Enhanced 3270UI session to see the summary list of address spaces on SP22, looking to see if CICSDE03 is consuming more CPU than would usually be expected.

Embedded Data: CICS Rogue Task – Excessive CPU

- KM5ASPO Address Space Overview

File Edit View Tools Navigate Help 05/20/2014 11:18:58
 Command ==> KM5ASPO Address Space Overview
 Auto Update : Off
 Plex ID : LPAR400J
 SMF ID : SP22

Address Space Counts

| | | | |
|--------------------------|-----|----------------------------|----|
| Address Space Count..... | 256 | Total Enclave Count..... | 32 |
| Started Task Count..... | 243 | Active Enclave Count..... | 8 |
| TSO User Count..... | 6 | Inactive Enclave Count.... | 24 |
| Batch Job Count..... | 0 | APPC Count..... | 7 |

CPU Utilization Summary

Columns 4 to 6 of 37 Rows 1 to 22 of 256

| ΔAddress Space ▽Name | ◇ASID | ΔCPU ▽Percent | TCB Percent | SRB Percent | CPU% Excluding Home SRB Time |
|-------------------------|-------|------------------|----------------|----------------|---------------------------------|
| — CICSDE03 | 0122 | 99.6 | 99.6 | 0.0 | 99.6 |
| — OMD2HUB | 0014 | 0.4 | 0.4 | 0.0 | 0.4 |
| — CATALOG | 002A | 0.4 | 0.4 | 0.0 | 0.4 |
| — RMFGAT | | 0.4 | 0.4 | 0.0 | 0.4 |
| — *MASTER* | | 0.0 | 0.0 | 0.0 | 0.0 |
| — PCAUTH | | 0.0 | 0.0 | 0.0 | 0.0 |
| — RASP | | 0.0 | 0.0 | 0.0 | 0.0 |
| — TRACE | | 0.0 | 0.0 | 0.0 | 0.0 |
| — DUMPSRV | | 0.0 | 0.0 | 0.0 | 0.0 |
| — XCFAS | | 0.0 | 0.0 | 0.0 | 0.0 |
| — GRS | | 0.0 | 0.0 | 0.0 | 0.0 |
| — SMSPDSE | | 0.0 | 0.0 | 0.0 | 0.0 |
| — SMSVSAM | | 0.0 | 0.0 | 0.0 | 0.0 |
| — CONSOLE | | 0.0 | 0.0 | 0.0 | 0.0 |
| — WLM | | 0.0 | 0.0 | 0.0 | 0.0 |
| — ANTMAIN | | 0.0 | 0.0 | 0.0 | 0.0 |
| — ANTAS000 | | 0.0 | 0.0 | 0.0 | 0.0 |
| — DEVMAN | 000E | 0.0 | 0.0 | 0.0 | 0.0 |
| — GTZ | 000F | 0.0 | 0.0 | 0.0 | 0.0 |
| — OMVS | 0010 | 0.0 | 0.0 | 0.0 | 0.0 |
| — PCIE | 0011 | 0.0 | 0.0 | 0.0 | 0.0 |
| — FPGHWAM | 0012 | 0.0 | 0.0 | 0.0 | 0.0 |

Select CICSDE03 which is obviously a high CPU consumer which has the reported problem.

Embedded Data: CICS Rogue Task – Excessive CPU

- KM5ASPS6 CPU Usage Details

```

File Edit View Tools Navigate Help 05/20/2014 11:19:38
Command ==> KM5ASPS6 CPU Usage Auto Update : Off
Plex ID : LPAR400J
SMF ID : SP22

```

Details Information for CICSDE03 0x0122

| | |
|--|------|
| Type..... | STC |
| CPU Percent..... | 99.6 |
| IFA Percent..... | 0.0 |
| SRB Percent..... | 0.0 |
| TCB Percent..... | 99.6 |
| zIIP Percent..... | 0.0 |
| CPU Percent Excluding Home SRB Time..... | 99.6 |
| IFA on CP Percent..... | 0.0 |
| zIIP on CP Percent..... | 0.0 |
| IFA Percent With Enclave Home SRB Time..... | 0.0 |
| zIIP Percent With Enclave Home SRB Time..... | 0.0 |
| Job CPU Percent..... | 0.6 |
| Job SRB Percent..... | 0.1 |
| Job TCB Percent..... | 0.6 |

| | |
|----------------------|----------|
| Job CPU Time..... | 981.68 |
| Job SRB Time..... | 1.74 |
| Job Preempt..... | 0.00 |
| Job Start Date..... | 14/05/18 |
| Job Start Time..... | 09:15:51 |
| Job Elapsed..... | 2d 02h |
| Start Up Mode..... | No |
| Job Addition..... | 0.00 |
| Job Addition..... | 0.0 |
| Job Preemptable..... | 0.0 |

Press Enter key when cursor is on a highlighted column to zoom

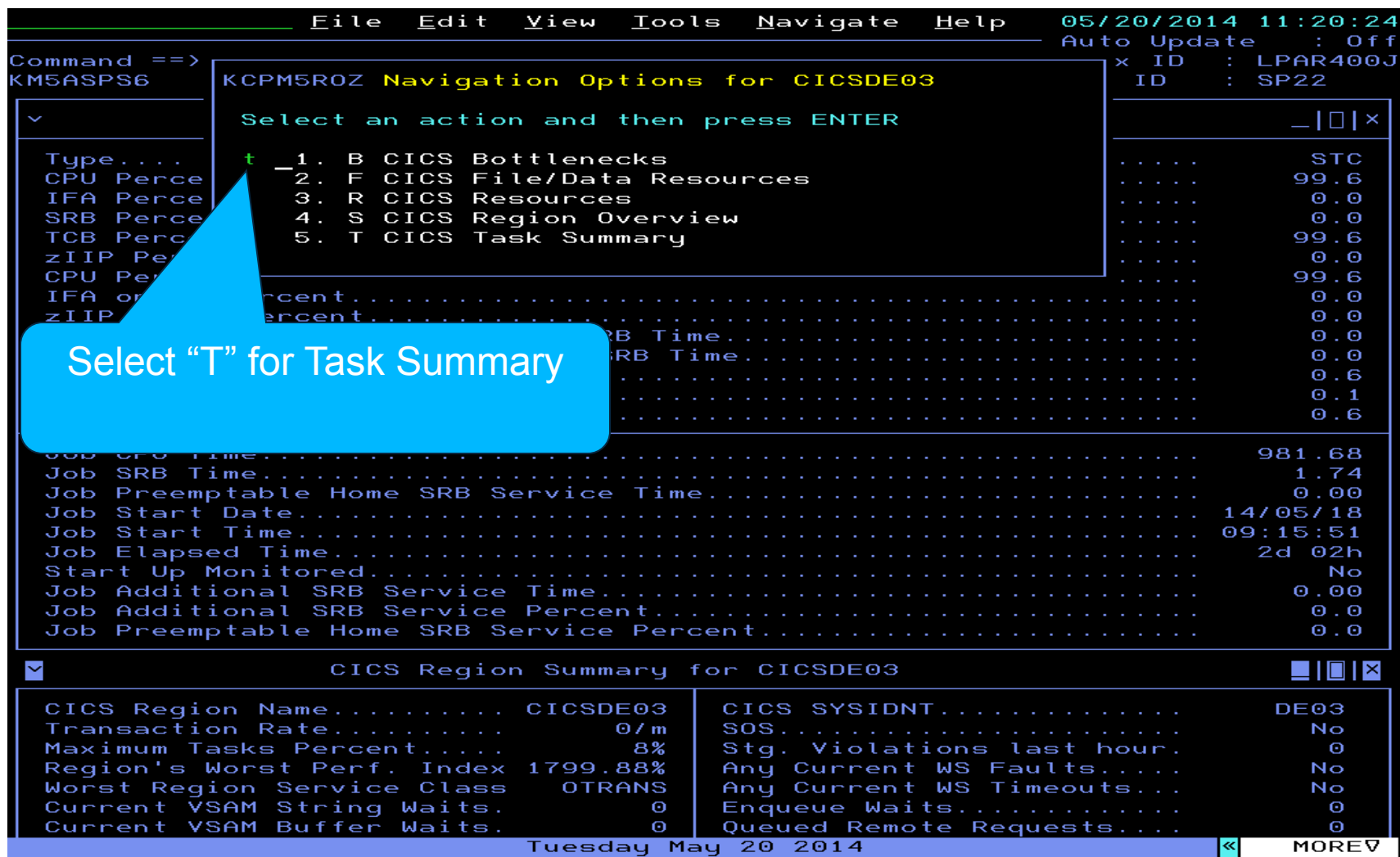
CICS Region Summary for CICSDE03

| | | | |
|---------------------------------|----------|--------------------------------|------|
| CICS Region Name..... | CICSDE03 | CICS SYSIDNT..... | DE03 |
| Transaction Rate..... | 0 / m | SOS..... | No |
| Maximum Tasks Percent..... | 8% | Stg. Violations last hour..... | 0 |
| Region's Worst Perf. Index..... | 1799.88% | Any Current WS Faults..... | No |
| Worst Region Service Class..... | OTRANS | Any Current WS Timeouts..... | No |
| Current VSAM String Waits..... | 0 | Queue Waits..... | 0 |
| Current VSAM Buffer Waits..... | 0 | Queued Remote Requests..... | 0 |

Tuesday May 20 2014

Embedded Data: CICS Rogue Task – Excessive CPU

- KCPM5ROZ Navigation Options for CICSDE03



File Edit View Tools Navigate Help 05/20/2014 11:20:24
 Auto Update : Off
 x ID : LPAR400J
 ID : SP22

Command ==>
 KM5ASPS6

KCPM5ROZ Navigation Options for CICSDE03

Select an action and then press ENTER

| | | | |
|-----------|---|-------------------------------|------|
| Type.... | t | 1. B CICS Bottlenecks | STC |
| CPU Perce | | 2. F CICS File/Data Resources | 99.6 |
| IFA Perce | | 3. R CICS Resources | 0.0 |
| SRB Perce | | 4. S CICS Region Overview | 0.0 |
| TCB Perc | | 5. T CICS Task Summary | 99.6 |
| zIIP Pe | | | 0.0 |
| CPU Pe | | | 99.6 |
| IFA or | | | 0.0 |
| zIIP | | | 0.0 |

Job CPU Time..... 981.68
 Job SRB Time..... 1.74
 Job Preemptable Home SRB Service Time..... 0.00
 Job Start Date..... 14/05/18
 Job Start Time..... 09:15:51
 Job Elapsed Time..... 2d 02h
 Start Up Monitored..... No
 Job Additional SRB Service Time..... 0.00
 Job Additional SRB Service Percent..... 0.0
 Job Preemptable Home SRB Service Percent..... 0.0

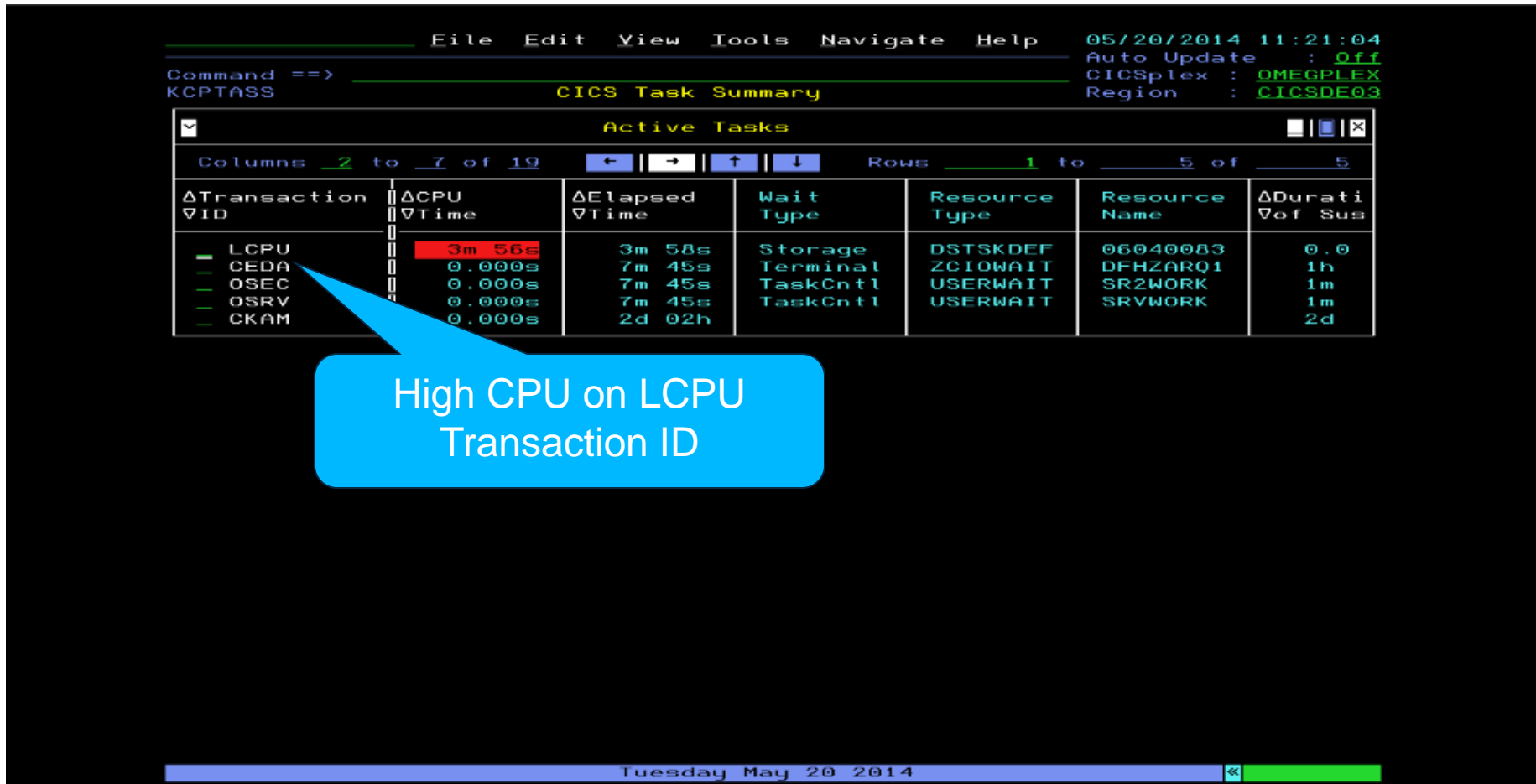
CICS Region Summary for CICSDE03

| | | | |
|----------------------------|----------|----------------------------|------|
| CICS Region Name..... | CICSDE03 | CICS SYSIDNT..... | DE03 |
| Transaction Rate..... | 0/m | SOS..... | No |
| Maximum Tasks Percent..... | 8% | Stg. Violations last hour. | 0 |
| Region's Worst Perf. Index | 1799.88% | Any Current WS Faults.... | No |
| Worst Region Service Class | OTRANS | Any Current WS Timeouts... | No |
| Current VSAM String Waits. | 0 | Enqueue Waits..... | 0 |
| Current VSAM Buffer Waits. | 0 | Queued Remote Requests... | 0 |

Tuesday May 20 2014 MORE

Embedded Data: CICS Rogue Task – Excessive CPU

- KCPTASS CICS Task Summary



The screenshot shows the CICS Task Summary window. The title bar indicates the date and time: 05/20/2014 11:21:04. The command entered is KCPTASS. The window displays a table of active tasks. A callout box points to the LCPU transaction, highlighting its high CPU usage.

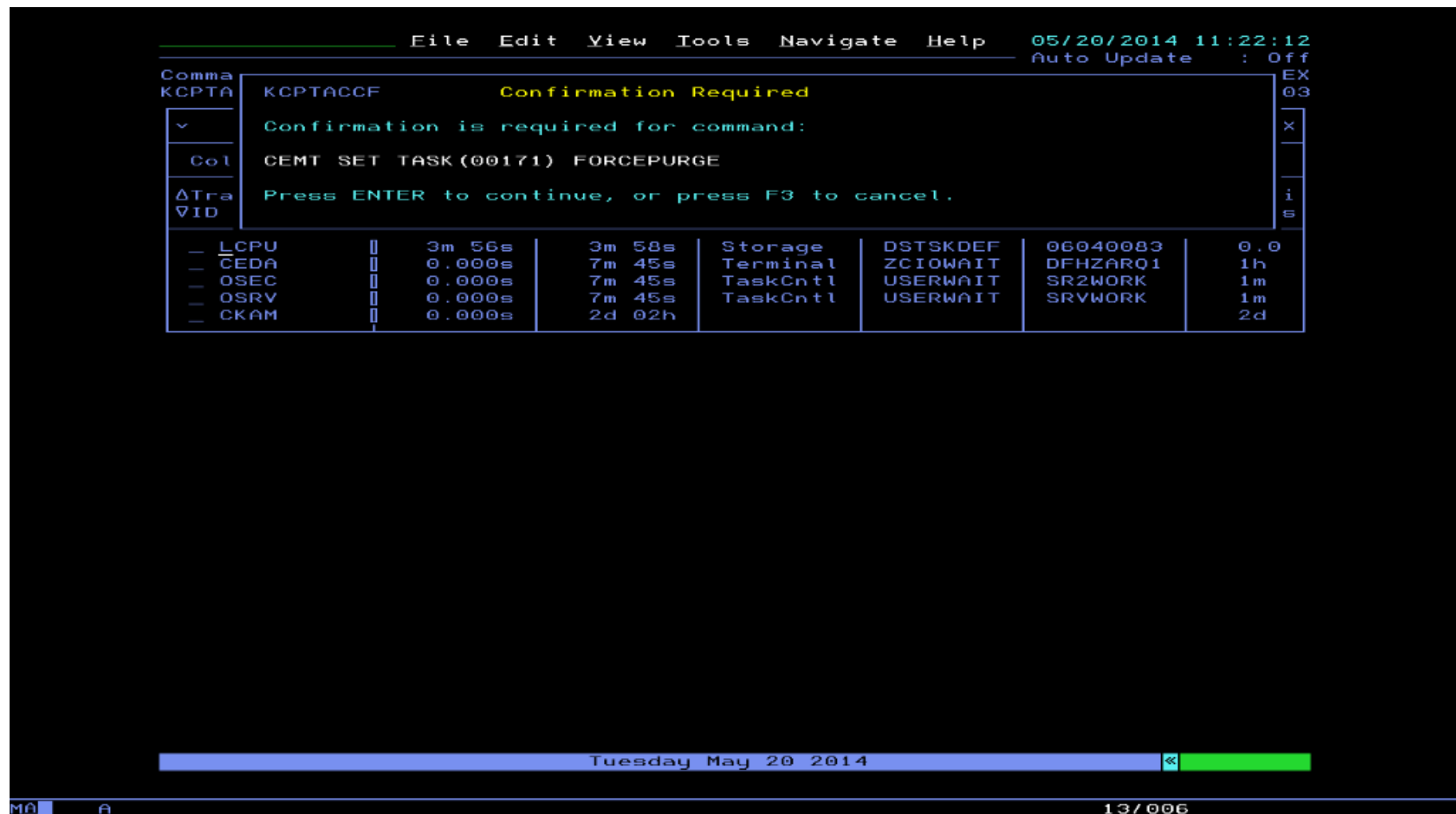
| ΔTransaction ID | ΔCPU % | ΔElapsed Time | Wait Type | Resource Type | Resource Name | ΔDuration of Sus |
|-----------------|--------|---------------|-----------|---------------|---------------|------------------|
| LCPU | 3m 56s | 3m 58s | Storage | DSTSKDEF | 06040083 | 0.0 |
| CEDA | 0.000s | 7m 45s | Terminal | ZC10WAIT | DFHZARQ1 | 1h |
| OSEC | 0.000s | 7m 45s | TaskCntl | USERWAIT | SR2WORK | 1m |
| OSRV | 0.000s | 7m 45s | TaskCntl | USERWAIT | SRVWORK | 1m |
| CKAM | 0.000s | 2d 02h | | | | 2d |

High CPU on LCPU Transaction ID

Tuesday May 20 2014

Embedded Data: CICS Rogue Task – Excessive CPU

- FORCEPURGE the rogue task using excessive CPU



The screenshot shows a CICS terminal window with a menu bar (File, Edit, View, Tools, Navigate, Help) and a date/time stamp (05/20/2014 11:22:12). The main display area is divided into a confirmation dialog and a task list.

Confirmation Dialog:

```

Comma  KCPTA  KCPTACCF          Confirmation Required
v      Confirmation is required for command:
Col    CEMT SET TASK(00171) FORCEPURGE
ΔTra   Press ENTER to continue, or press F3 to cancel.
VID
  
```

Task List:

| | | | | | | | | | |
|---|---|-----|--|--------|--------|----------|----------|----------|-----|
| — | L | CPU | | 3m 56s | 3m 58s | Storage | DSTSKDEF | 06040083 | 0.0 |
| — | C | EDA | | 0.000s | 7m 45s | Terminal | ZCIOWAIT | DFHZARQ1 | 1h |
| — | O | SEC | | 0.000s | 7m 45s | TaskCntl | USERWAIT | SR2WORK | 1m |
| — | O | SRV | | 0.000s | 7m 45s | TaskCntl | USERWAIT | SRVWORK | 1m |
| — | C | KAM | | 0.000s | 2d 02h | | | | 2d |

The terminal also shows a date bar at the bottom: Tuesday May 20 2014.

Embedded Data: CICS Rogue Task – Excessive CPU

- Take Action Result



File Edit View Tools Navigate Help 05/20/2014 11:22:47
Auto Update : Off

Comma KCPTA KCPTAMSG Take Action Results EX 03
KCP4001E: SET command execution error: DEFERRED X

| | | | | | | | |
|---------|--------|--------|----------|----------|----------|-----|--|
| Col | | | | | | | |
| ΔTra | | | | | | | |
| VID | | | | | | | |
| — L CPU | 3m 56s | 3m 58s | Storage | DSTSKDEF | 06040083 | 0.0 | |
| — CEDA | 0.000s | 7m 45s | Terminal | ZC10WAIT | DFHZARQ1 | 1h | |
| — OSEC | 0.000s | 7m 45s | TaskCntl | USERWAIT | SR2WORK | 1m | |
| — OSRV | 0.000s | 7m 45s | TaskCntl | USERWAIT | SRVWORK | 1m | |
| — CKAM | 0.000s | 2d 02h | | | | 2d | |

Tuesday May 20 2014

137006

Embedded Data: CICS Rogue Task – Excessive CPU

- Back at Task Summary rogue task no longer running

```

File Edit View Tools Navigate Help 05/20/2014 11:23:20
Auto Update : Off
CICSplex : OMEGPLEX
Region : CICSDE03
Command ==>
KCPTASS CICS Task Summary

```

| Active Tasks | | | | | | |
|------------------|------------|----------------|-----------|---------------|---------------|-----------------|
| ΔTransaction VID | ΔCPU VTime | ΔElapsed VTime | Wait Type | Resource Type | Resource Name | ΔDurati Vof Sus |
| — CEDA | 0.000s | 10m 01s | Terminal | ZC10WAIT | DFHZARQ1 | 1h |
| — OSEC | 0.000s | 10m 01s | TaskCntl | USERWAIT | SR2WORK | 32.6 |
| — OSRV | 0.000s | 10m 01s | TaskCntl | USERWAIT | SRVWORK | 32.6 |
| — CKAM | 0.000s | 2d 02h | | | | 2d |

Tuesday May 20 2014

01 / 002

Embedded Data: CICS Rogue Task – Excessive CPU

- Back at KM5ASPS6 CPU Usage Details

```

File Edit View Tools Navigate Help 05/20/2014 11:24:01
Auto Update : Off
Plex ID : LPAR400J
SMF ID : SP22

Command ==>
KM5ASPS6 CPU Usage

Details Information for CICSDE03 0x0122
Type..... STC
CPU Percent..... 99.6
IFA Percent..... 0.0
SRB Percent..... 0.0
TCB Percent..... 99.6
zIIP Percent..... 0.0
CPU Percent Excluding Home SRB Time..... 99.6
IFA on CP Percent..... 0.0
zIIP on CP Percent..... 0.0
IFA Percent With Enclave Home SRB Time..... 0.0
zIIP Percent With Enclave Home SRB Time..... 0.0
Job CPU Percent..... 0.6
Job SRB Percent..... 0.1
Job TCB Percent..... 0.6

Job CPU Time..... 981.68
Job SRB Time..... 1.74
Job Preemptable Home SRB Service Time..... 0.00
Job Start Date..... 14/05/18
Job Start Time..... 09:15:51
Job Elapsed Time..... 2d 02h
Start Up Monitored..... No
Job Additional SRB Service Time..... 0.00
Job Additional SRB Service Percent..... 0.0
Job Preemptable Home SRB Service Percent..... 0.0

CICS Region Summary for CICSDE03
CICS Region Name..... CICSDE03
Transaction Rate..... 0/m
Maximum Tasks Percent..... 8%
Region's Worst Perf. Index..... 1799.88%
Worst Region Service Class..... OTRANS
Current VSAM String Waits..... 0
Current VSAM Buffer Waits..... 0
CICS SYSIDNT..... DE03
SOS..... No
Stg. Violations last hour..... 0
Any Current WS Faults..... No
Any Current WS Timeouts..... No
Enqueue Waits..... 0
Queued Remote Requests..... 0

```

Tuesday May 20 2014 MOREV

01/002

Embedded Data: CICS Rogue Task – Excessive CPU

- Back at KM5ASPO Address Space Overview

```

File Edit View Tools Navigate Help 05/20/2014 11:24:35
Auto Update : Off
Plex ID : LPAR400J
SMF ID : SP22
Command ==> KM5ASPO Address Space Overview
  
```

Address Space Counts

| | | | |
|--------------------------|-----|----------------------------|----|
| Address Space Count..... | 256 | Total Enclave Count..... | 32 |
| Started Task Count..... | 243 | Active Enclave Count..... | 8 |
| TSO User Count..... | 6 | Inactive Enclave Count.... | 24 |
| Batch Job Count..... | 0 | APPC Count..... | 7 |

CPU Utilization Summary

Columns 4 to 6 of 37 Rows 1 to 22 of 256

| Address Space VName | ASID | ΔCPU VPercent | TCB Percent | SRB Percent | CPU% Excluding Home SRB Time |
|------------------------|------|------------------|----------------|----------------|---------------------------------|
| — OMD2HUB | 0014 | 0.4 | 0.4 | 0.0 | 0.4 |
| — RMFGAT | 0110 | 0.4 | 0.4 | 0.0 | 0.4 |
| — *MASTER* | 0001 | 0.0 | 0.0 | 0.0 | 0.0 |
| — PCAUTH | 0002 | 0.0 | 0.0 | 0.0 | 0.0 |
| — RASP | 0003 | 0.0 | 0.0 | 0.0 | 0.0 |
| — TRACE | 0004 | 0.0 | 0.0 | 0.0 | 0.0 |
| — DUMPSRV | 0005 | 0.0 | 0.0 | 0.0 | 0.0 |
| — XCFAS | 0006 | 0.0 | 0.0 | 0.0 | 0.0 |
| — GRS | 0007 | 0.0 | 0.0 | 0.0 | 0.0 |
| — SMSPDSE | 0008 | 0.0 | 0.0 | 0.0 | 0.0 |
| — SMSVSAM | 0009 | 0.0 | 0.0 | 0.0 | 0.0 |
| — CONSOLE | 000A | 0.0 | 0.0 | 0.0 | 0.0 |
| — WLM | 000B | 0.0 | 0.0 | 0.0 | 0.0 |
| — ANTMAIN | 000C | 0.0 | 0.0 | 0.0 | 0.0 |
| — ANTAS000 | 000D | 0.0 | 0.0 | 0.0 | 0.0 |
| — DEVMAN | 000E | 0.0 | 0.0 | 0.0 | 0.0 |
| — GTZ | 000F | 0.0 | 0.0 | 0.0 | 0.0 |
| — OMVS | 0010 | 0.0 | 0.0 | 0.0 | 0.0 |
| — PCIE | 0011 | 0.0 | 0.0 | 0.0 | 0.0 |
| — FPGHWAM | 0012 | 0.0 | 0.0 | 0.0 | 0.0 |
| — HZSPROC | 0013 | 0.0 | 0.0 | 0.0 | 0.0 |
| — IEFSCHAS | 0015 | 0.0 | 0.0 | 0.0 | 0.0 |

Tuesday May 20 2014

Embed for **KMQAPQZD** – MQ Application Details for Queue

```

File Edit View Tools Navigate Help 05/20/2014 21:04:34
Auto Update : Off
Command ==> HostName : SYS
KMQAPQZD QmgrName : Q7G1
z/OS Application Details for Queue

Queue P5.IN.Q1 Appl P50UP
Columns 2 to 7 of 15 Rows 1 to 1 of 1
┌───┬───┬───┬───┬───┬───┬───┐
│Appl Tag│ User ID │ Handle Status │ Asynch State │ Open for Input │ Open for Output │ +Open Brows │
├───┬───┬───┬───┬───┬───┬───┤
│ P50UP │ KMAGG │ Active │ None │ Exclusive │ No │ Yes │
└───┬───┬───┬───┬───┬───┬───┘

z/OS Address Space CPU Details for P50UP 0x004A
Job Name..... P50UP
ASID..... 004A
Type..... Batch
JESJOBID..... JOB08486
Step Name..... CSQ4BCJ
Proc Step.....
IO per Second..... 0.0
CPU Percent..... 98.7
IFA Percent..... 0.0
SRB Percent..... 0.0
TCB Percent..... 98.7
zIIP Percent..... 0.0
CPU Percent Excluding Home SRB Time..... 98.7

IFA on CP Percent..... 0.0
zIIP on CP Percent..... 0.0
IFA Percent With Enclave Home SRB Time..... 0.0
zIIP Percent With Enclave Home SRB Time..... 0.0
Job CPU Percent..... 34.2
Job SRB Percent..... 0.0
Job TCB Percent..... 34.2
Job CPU Time..... 316.11
Job SRB Time..... 0.00
Job TCB Time..... 316.11
Job Preemptable Home SRB Service Time..... 0.00
Job Preemptable Home SRB Service Percent..... 0.0
  
```

z/OS Address Space Embed

Tuesday May 20 2014 MOREV 014

Embed for **KMQQGCFD** – MQ QSG CF Structure Details

```

File Edit View Tools Navigate Help 05/20/2014 18:31:02
Auto Update : Off
Command ==>
KMQQGCFD QSG Coupling Facility Structure Details
QmgrName :

[+] QSG Q7G2 Coupling Facility Structure APPLICATION1
Struct Status..... Active      CF Struct Type..... Appl
Recovery Supported..... No      Struct Level..... 3
Failure Date..... n/a      Alter Date..... 12/08/14
Failure Time..... n/a      Alter Time..... 11:40:05
% Stor Used..... 1.0      Max Stor..... 32768
% Entries Used..... 0.3      Max Entries..... 9895
Used Entries..... 33

[+] z/OS CF Structure Details for Q7G2APPLICATION1
CF Name..... CF01
Structure Status..... ActivePe
Structure Type..... List
Asynchronous Requests per minute..... 0.0
Synchronous Requests per minute..... 0.0
Maximum Users..... 32
Total Users..... 1
Problem Users..... 0
Storage Size..... 8192
Percent CF Storage Size..... 1.1
Element Count..... 9895
Duplex..... Unavaila
AutoAlter..... Unavaila
  
```

z/OS CF Detail Embed

Embed for **KMQQMSZD** – MQ Queue Mgr Address Space Monitoring

```

File Edit View Tools Navigate Help 05/20/2014 19:45:03
Auto Update : Off
Command ==> KMQQMSZD Queue Manager Address Space Q722CHIN HostName : SP22
QmgrName : Q722

Queue Manager Monitoring Information
QMgr Subsys..... Q722 QMgr Type..... MVS
Status at Sample Interval. Active Interval Length Seconds... 299.99
Timeout Count..... 0 MQSeries Release..... 7.1.0
Start Date..... 14/05/19 Alter Date..... 14/05/19
Start Time..... 15:54:10 Alter Time..... 15:54:11

z/OS Address Space CPU Details for Q722CHIN 0x0185
Job Name..... Q722CHIN
ASID..... 0185
Type..... STC
JESJOBID..... STC07313
Step Name..... Q722CHIN
Proc Step..... PROCSTEP
IO per Second..... 0.0
CPU Percent..... 0.0
IFA Percent..... 0.0
SRB Percent..... 0.0
TCB Percent..... 0.0
zIIP Percent..... 0.0
CPU Percent Excluding Home SRB Time..... 0.0

IFA on CP Percent..... 0.0
zIIP on CP Percent..... 0.0
IFA Percent With Enclave Home SRB Time..... 0.0
zIIP Percent With Enclave Home SRB Time..... 0.0
Job CPU Percent..... 0.1
Job SRB Percent..... 0.1
Job TCB Percent..... 0.1
Job CPU Time..... 5.02
Job SRB Time..... 0.99
Job TCB Time..... 4.03
Job Preemptable Home SRB Service Time..... 0.00
Job Preemptable Home SRB Service Percent..... 0.0
Job Additional SRB Service Time..... 0.00
  
```

z/OS Address Space CPU Detail Embed

Enhanced 3270 UI Embedded Data

MQ Page Set -> XE Storage

MQ Page Set Statistics – Option “d”

```

File Edit View Tools Navigate Help 05/20/2014 20:18:24
Command ==> Auto Update : Off
KMQPGSTD Page Set Statistics HostName : SP22
QmgrName : Q722
  
```

Latest Page Set Sample Summary

| | | | |
|----------------------------|-----|--------------------------|---------|
| # of Page Sets..... | 5 | High % In Use..... | 16.3 |
| Unavailable Page Sets..... | 0 | Avg Extents..... | 11.8 |
| Full Page Sets..... | 0 | High Extents..... | 55 |
| Avg % In Use..... | 0.1 | Avg Pages Allocated..... | 41791.6 |

Page Sets

Columns 2 to 7 of 18 Rows 1 to 5 of 5

| ΔPage Set VID | Status | Δ% Pages ∇In Use | Allocated Data Pages | Unused Pages | Persistent Pages | +Non Pag |
|------------------|-----------|---------------------|-------------------------|-----------------|---------------------|-------------|
| — 00 | Available | 16.3 | 1078 | 902 | 176 | |
| — 01 | Available | 1.7 | 1078 | 1059 | 19 | |
| — 02 | Available | 0.1 | 1078 | 1076 | 2 | |
| — 03 | Available | 0.0 | 7558 | 7551 | 4 | |
| d 04 | Available | 0.0 | 198166 | 198092 | 0 | |

Tuesday May 20 2014

Page Set Dataset Details has Storage Space and Performance Data

File Edit View Tools Navigate Help 05/20/2014 20:24:07
 Auto Update : Off
 HostName : SP22
 QmgrName : Q722

Command ==> KMQPGSDD Page Set Dataset Details

Page Set 04 Dataset MQM.V710.Q722.PSID04

| | | | |
|---------------------------|-----------|----------------------------|--------|
| Status..... | Available | Volume..... | MQM002 |
| Total Extents..... | 55 | Extents Since Restart..... | 0 |
| Allocated Data Pages..... | 198166 | Buffer Pool ID..... | 03 |
| Unused Pages..... | 198092 | Buffers In Use..... | 1437 |
| % Pages In Use..... | 0.0 | % Buffer Pool In Use..... | 7.1 |
| Persistent Pages..... | 0 | Queues Assigned..... | 13 |
| Non-Persistent Pages..... | 74 | Queue Messages..... | 0 |

Dataset Space Attributes

Columns 2 to 6 of 23 Rows 1 to 1 of 1

| Volume | Tracks Allocated | Tracks Used | Tracks Used % | Number of Extents | +Dataset Type |
|--------|------------------|-------------|---------------|-------------------|---------------|
| MQM002 | 16515 | 16515 | 100.0 | 55 | VSAM |

Dataset Performance Summary

Columns 2 to 6 of 21 Rows 1 to 1 of 1

| Volume | ΔResponse Time | IOSQ Time | ΔPend Time | ΔConnect Time | Device Active Only Time |
|--------|----------------|-----------|------------|---------------|-------------------------|
| MQM002 | 0.9 | 0.1 | 0.1 | 0.2 | 0.0 |

Tuesday May 20 2014

Scroll right see data (one row -volume -multiple)

```

File Edit View Tools Navigate Help 05/20/2014 20:24:57
Auto Update : Off
Command ==> KMQPGSDD Page Set Dataset Details HostName : SP22
QmgrName : Q722
  
```

Page Set 04 Dataset MQM.V710.Q722.PSID04

| | | | |
|---------------------------|----------|----------------------------|--------|
| Status..... | Availabl | Volume..... | MQM002 |
| Total Extents..... | 55 | Extents Since Restart..... | 0 |
| Allocated Data Pages..... | 198166 | Buffer Pool ID..... | 03 |
| Unused Pages..... | 198092 | Buffers In Use..... | 1437 |
| % Pages In Use..... | 0.0 | % Buffer Pool In Use..... | 7.1 |
| Persistent Pages..... | 0 | Queues Assigned..... | 13 |
| Non-Persistent Pages..... | 74 | Queue Messages..... | 0 |

Dataset Space Attributes

Columns 6 to 10 of 23 ← | → | ↑ | ↓ Rows 1 to 1 of 1

| Volume | Dataset Type | Record Format | Logical Record Length | Block Size | +VSAM K Displa |
|--------|--------------|---------------|-----------------------|------------|----------------|
| MQM002 | VSAM | U | 0 | 4096 | 0 |

Dataset Performance Summary

Columns 7 to 10 of 21 ← | → | ↑ | ↓ Rows 1 to 1 of 1

| Volume | Interrupt Delay Time | ΔTotal ∇Disconnect Time | ΔRead ∇Disconnect Time | ΔWrite ∇Disconnect Time |
|--------|----------------------|-------------------------|------------------------|-------------------------|
| MQM002 | 0.0 | 0.4 | 0.4 | n/a |

Tuesday May 20 2014

Scrolling right one more time...

```

File Edit View Tools Navigate Help 05/20/2014 20:27:12
Auto Update : Off
Command ==> KMQPGSDD Page Set Dataset Details HostName : SP22
QmgrName : Q722
  
```

Page Set 04 Dataset MQM.V710.Q722.PSID04

| | | | |
|---------------------------|-----------|----------------------------|--------|
| Status..... | Available | Volume..... | MQM002 |
| Total Extents..... | 55 | Extents Since Restart..... | 0 |
| Allocated Data Pages..... | 198166 | Buffer Pool ID..... | 03 |
| Unused Pages..... | 198092 | Buffers In Use..... | 1437 |
| % Pages In Use..... | 0.0 | % Buffer Pool In Use..... | 7.1 |
| Persistent Pages..... | 0 | Queues Assigned..... | 13 |
| Non-Persistent Pages..... | 74 | Queue Messages..... | 0 |

Dataset Space Attributes

Columns 18 to 21 of 23 Rows 1 to 1 of 1

| Volume | Volume Sequence | Extended Address Space Eligible | Using Cylinder Managed Space | Creation Date |
|--------|-----------------|---------------------------------|------------------------------|-------------------|
| MQM002 | 1 | No | No | 12/07/09 00:00:00 |

Dataset Performance Summary

Columns 17 to 21 of 21 Rows 1 to 1 of 1

| Volume | Total I/O Count | Read I/O Count | Write I/O Count | SC Direct MSR Objective | SC Sequential MSR Objective |
|--------|-----------------|----------------|-----------------|-------------------------|-----------------------------|
| MQM002 | 385 | 385 | 0 | 99 | 99 |

Tuesday May 20 2014

OMEGAMON XE STORAGE NTH:

NTH is available for the following attribute groups

File Edit View Tools Navigate Help 07/30/2014 17:15:25

Command ==> KOBHISTB

Hub Name: S353EH91:CMS Application: OMEGAMON XE for Storage on z/OS

Historical tables

Columns 2 to 4 of 4 Rows 1 to 1

| Attribute Group | Collection Name | Interval | STATUS |
|-----------------------------------|-------------------|----------|--------|
| - S3 Cache Control Unit | Cache_CU | 15 Mins | Active |
| - S3 Cache Devices | Cache_Dev | 15 Mins | Active |
| - S3 Channel Path | Channel_Path | 15 Mins | Active |
| - S3 Volume Group Summary | Vol_Group_Sum | 15 Mins | Active |
| - S3 DASD Volume Performance | DASD_Vol_Perf | 15 Mins | Active |
| - S3 DASD Volume Space | DASD_Vol_Space | 15 Mins | Active |
| - S3 Dataset Attributes System Su | DA_Sum | 15 Mins | Active |
| - S3 Logical Control Unit | LCU | 15 Mins | Active |
| - S3 RLS Lock Structure | RLS_Lock_Str | 15 Mins | Active |
| - S3 RLS Buffer LSU Summary | RLS_Buffer_LSU | 15 Mins | Active |
| - S3 RLS Performance Overview | RLS_Perf_Overview | 15 Mins | Active |
| - S3 RLS Lock Structure CF Detail | RLS_Lock_Str_CF | 15 Mins | Active |
| - S3 RLS Storage Class | RLS_Storage_Class | 15 Mins | Active |

OMEGAMON XE STORAGE NTH:

File Edit View Tools Navigate Help 07/30/2014 17:57:16

Command ==> KS3SSGP

Auto Update : Off
Plex ID : RSPLEX01
Sys ID : RS22

SMS Storage Groups Performance Report

Columns 2 to 8 of 10 Rows 1 to 10 of 259

| Group Name | Storage Group Type | ΔStorage Group Status | ΔTotal Volumes | ΔHigh Response Time | High Busy % | Device MPL | Low Read Hit % |
|------------|--------------------|-----------------------|----------------|---------------------|-------------|------------|----------------|
| ABPG1 | Pool | Enabled | 2 | 0.2 | 0.0 | 0 | n/a |
| ARYSESG | Pool | Enabled | 8 | 0.2 | 0.0 | 0 | n/a |
| ARYSG05 | Pool | Enabled | 8 | 0.3 | 0.0 | 0 | 70.3 |
| ARYSG06 | Pool | Enabled | 16 | 2.2 | 0.0 | 0 | 73.1 |
| ARYSG07 | Pool | Enabled | 8 | 1.1 | 4.4 | 68 | 99.7 |
| ARYSG08 | Pool | Enabled | 16 | 12.3 | 0.3 | 2 | 98.1 |
| ARYSG09 | Pool | Enabled | 8 | 0.3 | 0.0 | 0 | 73.6 |
| ARYSG10 | Copy Pool Backup | Enabled | 24 | 0.3 | 0.0 | 0 | 72.0 |
| ARYSG11 | Pool | Enabled | 8 | 0.3 | 0.0 | 0 | 98.6 |
| ARYSG12 | Copy Pool Backup | Enabled | 24 | 0.3 | 0.0 | 0 | 69.6 |

Highest Volume Response Time Report

Command ==> KS3SSGP

Display : HISTORICAL
Plex ID : RSPLEX01
Sys ID : RS22

Historical Summary

Selected item ARYSG08

Columns 3 to 8 of 11 Rows 1 to 20 of 20

| Recording Time | Group Name | Storage Group Type | Storage Group Status | Total Volumes | High Response Time | High Busy % | Device MPL |
|----------------|------------|--------------------|----------------------|---------------|--------------------|-------------|------------|
| 17:45:26 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 17:30:36 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 17:15:23 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 17:00:23 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 16:45:22 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 16:30:22 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 16:15:20 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 16:01:27 | ARYSG08 | Pool | Enabled | 16 | 0.6 | 0.0 | 0 |
| 15:45:23 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 15:30:22 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 15:15:21 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 15:00:23 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 14:45:22 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 14:30:41 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 14:15:22 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 14:00:22 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 13:45:22 | ARYSG08 | Pool | Enabled | 16 | 0.3 | 0.0 | 0 |
| 13:30:22 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 13:15:23 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |
| 13:00:26 | ARYSG08 | Pool | Enabled | 16 | 0.2 | 0.0 | 0 |

Other Enhancements:

- Added two OMEGAMON Enhanced 3270UI workspaces
 - Channel Path Activity
 - Tape Drive

- SDA status workspace

- History Configuration from the TOM

- MSU collection TEP changes

DASD, CHANNEL & TAPE SUMMARY MENU



File Edit View Tools Navigate Help

07/18/2014 16:35:49

Auto Update : Off

CKPLEX

Command ==>

KM5LPR03

Options Menu

Select an option and then press ENTER

- V_** 1. A Operator Alerts
- 2. B System CPU Utilization
- 3. C CPC Details and LPAR Clusters
- 4. D zAware Analysis
- 5. L Health Checker
- 6. M 4-Hour Rolling Average MSU Statistics
- 7. N Enclave Information
- 8. O Storage Resources
- 9. P System Paging & Dataset Activity
- 10. R Enqueue, Reserve, and Lock Summary
- 11. S Address Space Overview
- 12. V DASD, Channel & Tape Summary**
- 13. W WLM Service Class Resources
- 14. Z z/OS UNIX System Services Overview
- 15. H Historical Summary For a CPC

| |
|------------|
| ∨ |
| Columns |
| ◊LPAR Name |
| _ CANSP13 |
| _ CANSP11 |
| _ CANSYSG |
| _ CANSYSL |
| _ CANSP22 |
| _ CANSP23 |
| _ CANSP12 |
| _ CANSP14 |

| |
|-----------|
| _ 0 x |
| 8 |
| In U cent |
| 46.6 |
| 10.4 |
| 36.0 |
| 19.0 |
| 17.2 |
| 6.3 |
| 45.4 |
| 43.4 |

MENU PANEL – (KM5DCTMN)

```

File Edit View Tools Navigate Help 07/18/2014 16:55:57
Auto Update : Off
Command ==> KM5LPR03 JACKPLEX
KM5DCTMN DASD Devices, Channel Path & Tape Drives

Select one of the following, then press ENTER

  1. C Channel Path Activity
  2. D Active DASD Devices
  3. T Tape Drives
  
```

| Columns | SA In U ercent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------|-----|-----|------|------|-----------|---|-----|-----|-----|------|-----------|---|-----|-----|-----|------|-----------|----|------|-----|-----|------|-----------|---|-----|-----|-----|------|-----------|---|-----|-----|-----|------|-----------|---|-----|-----|-----|-----|-----------|---|-----|-----|-----|------|-----------|---|-----|-----|-----|------|--|
| <table border="1"> <thead> <tr> <th>LPAR Name</th> <th>5</th> <th>7.5</th> <th>0.3</th> <th>0.1</th> <th>46.6</th> </tr> </thead> <tbody> <tr> <td>— CANSP13</td> <td>5</td> <td>7.5</td> <td>0.3</td> <td>0.1</td> <td>46.6</td> </tr> <tr> <td>— CANSP11</td> <td>2</td> <td>1.6</td> <td>0.0</td> <td>0.0</td> <td>10.4</td> </tr> <tr> <td>— CANSYSG</td> <td>14</td> <td>16.6</td> <td>6.5</td> <td>8.6</td> <td>36.0</td> </tr> <tr> <td>— CANSYSL</td> <td>4</td> <td>4.5</td> <td>0.1</td> <td>0.0</td> <td>19.0</td> </tr> <tr> <td>— CANSP22</td> <td>7</td> <td>5.6</td> <td>2.3</td> <td>0.1</td> <td>17.2</td> </tr> <tr> <td>— CANSP23</td> <td>2</td> <td>1.6</td> <td>0.0</td> <td>0.0</td> <td>6.3</td> </tr> <tr> <td>— CANSP12</td> <td>4</td> <td>3.2</td> <td>0.0</td> <td>0.0</td> <td>45.4</td> </tr> <tr> <td>— CANSP14</td> <td>5</td> <td>3.8</td> <td>0.0</td> <td>0.0</td> <td>43.4</td> </tr> </tbody> </table> | LPAR Name | 5 | 7.5 | 0.3 | 0.1 | 46.6 | — CANSP13 | 5 | 7.5 | 0.3 | 0.1 | 46.6 | — CANSP11 | 2 | 1.6 | 0.0 | 0.0 | 10.4 | — CANSYSG | 14 | 16.6 | 6.5 | 8.6 | 36.0 | — CANSYSL | 4 | 4.5 | 0.1 | 0.0 | 19.0 | — CANSP22 | 7 | 5.6 | 2.3 | 0.1 | 17.2 | — CANSP23 | 2 | 1.6 | 0.0 | 0.0 | 6.3 | — CANSP12 | 4 | 3.2 | 0.0 | 0.0 | 45.4 | — CANSP14 | 5 | 3.8 | 0.0 | 0.0 | 43.4 | |
| LPAR Name | 5 | 7.5 | 0.3 | 0.1 | 46.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSP13 | 5 | 7.5 | 0.3 | 0.1 | 46.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSP11 | 2 | 1.6 | 0.0 | 0.0 | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSYSG | 14 | 16.6 | 6.5 | 8.6 | 36.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSYSL | 4 | 4.5 | 0.1 | 0.0 | 19.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSP22 | 7 | 5.6 | 2.3 | 0.1 | 17.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSP23 | 2 | 1.6 | 0.0 | 0.0 | 6.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSP12 | 4 | 3.2 | 0.0 | 0.0 | 45.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CANSP14 | 5 | 3.8 | 0.0 | 0.0 | 43.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MENU PANEL – (KM5DCTMN)

```

File Edit View Tools Navigate Help 07/18/2014 16:55:57
Auto Update : Off
Command ==> KM5LPR03 JACKPLEX
KM5DCTMN DASD Devices, Channel Path & Tape Drives

Select one of the following, then press ENTER

C 1. C Channel Path Activity
  2. D Active DASD Devices
  3. T Tape Drives
  
```

| Columns | SA In U ercent |
|-----------|-------------------|
| – CANSP13 | 46.6 |
| – CANSP11 | 10.4 |
| – CANSYSG | 36.0 |
| – CANSYSL | 19.0 |
| – CANSP22 | 17.2 |
| – CANSP23 | 6.3 |
| – CANSP12 | 45.4 |
| – CANSP14 | 43.4 |

CHANNEL PATH ACTIVITY – (KM5CHPAS)

File Edit View Tools Navigate Help 07/18/2014 21:39:24
 Auto Update : Off
 Plex ID : JACKPLEX
 SMF ID : _____

Command ==> _____
 <M5CHPAS Channel Path Activity

| Summary | | | | | | |
|---|-----------------|---|------------|------------|--|-------|
| Columns <u>2</u> to <u>7</u> of <u>12</u> | | <input type="button" value="←"/> <input type="button" value="→"/> <input type="button" value="↑"/> <input type="button" value="↓"/> | | | Rows <u>1</u> to <u>29</u> of <u>104</u> | |
| ΔRMF Interval ▽Start | Sample Count | CPMF | Path ID | ΔType ▽ | Shared | +Onli |
| 21:30:00 | 0 | Extended | 00 | IQD | Y | Y |
| 21:30:00 | 0 | Extended | 01 | IQD | Y | Y |
| 21:30:00 | 0 | Extended | 02 | IQD | Y | Y |
| 21:30:00 | 0 | Extended | 03 | IQD | Y | Y |
| 21:30:00 | 0 | Extended | 04 | IQD | Y | Y |
| 21:30:00 | 0 | Extended | 05 | IQD | Y | Y |
| 21:30:00 | 0 | Extended | 10 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 11 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 17 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 1E | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 1F | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 28 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 2C | OSC | Y | Y |
| 21:30:00 | 0 | Extended | 30 | OSX | Y | Y |
| 21:30:00 | 0 | Extended | 31 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 32 | OSX | Y | Y |
| 21:30:00 | 0 | Extended | 34 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 35 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 36 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 37 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 38 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 39 | OSD | Y | Y |
| 21:30:00 | 0 | Extended | 3A | OSX | Y | Y |
| 21:30:00 | 0 | Extended | 3B | OSX | Y | Y |

CHANNEL PATH ACTIVITY – (KM5CHPAS)

```

File Edit View Tools Navigate Help 07/19/2014 10:01:07
Auto Update : Off
Command ==> KM5CHPAS Channel Path Activity Plex ID : JACKPLEX
SMF ID :
  
```

| Summary | | | | | |
|-------------------------|---------|---------------------|--------|--------|-------------------|
| Columns 4 to 8 of 12 | | Rows 1 to 29 of 104 | | | |
| ΔRMF Interval ▽Start | Path ID | ΔType ▽ | Shared | Online | ΔLPAR ▽Percent |
| 21:30:00 | 00 | IQD | Y | Y | 0.0 |
| 21:30:00 | 01 | IQD | Y | Y | 0.0 |
| 21:30:00 | 02 | IQD | Y | Y | 0.0 |
| 21:30:00 | 03 | IQD | Y | Y | 0.0 |
| 21:30:00 | 04 | IQD | Y | Y | 0.0 |
| 21:30:00 | 05 | IQD | Y | Y | 0.0 |
| 21:30:00 | 10 | OSD | Y | Y | 0.0 |
| 21:30:00 | 11 | OSD | Y | Y | 0.0 |
| 21:30:00 | 17 | OSD | Y | Y | 0.0 |
| 21:30:00 | 1E | OSD | Y | Y | 0.0 |
| 21:30:00 | 1F | OSD | Y | Y | 0.0 |
| 21:30:00 | 28 | OSD | Y | Y | 0.0 |
| 21:30:00 | 2C | OSC | Y | Y | 0.0 |
| 21:30:00 | 30 | OSX | Y | Y | 0.0 |
| 21:30:00 | 31 | OSD | Y | Y | 0.0 |
| 21:30:00 | 32 | OSX | Y | Y | 0.0 |
| 21:30:00 | 34 | OSD | Y | Y | 0.0 |
| 21:30:00 | 35 | OSD | Y | Y | 0.0 |
| 21:30:00 | 36 | OSD | Y | Y | 0.0 |
| 21:30:00 | 37 | OSD | Y | Y | 0.0 |

TAPE DRIVES

File Edit View Tools Navigate Help 07/19/2014 10:05:58

Auto Update : Off

Command ==>
KM5LPR03

KM5DCTMN DASD Devices, Channel Path & Tape Drives

JACKPLEX
SP13

Select one of the following, then press ENTER

- T 1. C Channel Path Activity
- 2. D Active DASD Devices
- 3. T Tape Drives

||x

Columns

8

LPAR
Name

SA In U
ercent

| | | | | | | |
|-----------|----|--|------|-----|-----|------|
| _ CANSP13 | 5 | | 7.5 | 0.3 | 0.1 | 46.6 |
| _ CANSP11 | 2 | | 1.6 | 0.0 | 0.0 | 10.4 |
| _ CANSYSG | 14 | | 16.6 | 6.5 | 8.6 | 36.0 |
| _ CANSYSL | 4 | | 4.5 | 0.1 | 0.0 | 19.0 |
| _ CANSP22 | 7 | | 5.6 | 2.3 | 0.1 | 17.2 |
| _ CANSP23 | 2 | | 1.6 | 0.0 | 0.0 | 6.3 |
| _ CANSP12 | 4 | | 3.2 | 0.0 | 0.0 | 45.4 |
| _ CANSP14 | 5 | | 3.8 | 0.0 | 0.0 | 43.4 |

TAPE DRIVES – (KM5TPDRS)

```

File Edit View Tools Navigate Help 07/19/2014 10:11:01
Auto Update : Off
Command ==> KM5TPDRS Tape Drives Plex ID : JACKPLEX
SMF ID : SP13
  
```

| Summary | | | | | |
|---------------------|---------|--------------------|---------|------------|------------------|
| Columns 2 to 6 of 8 | | Rows 1 to 29 of 34 | | | |
| ΔAddress | ΔVolume | User | ΔStatus | ΔI/O Count | Permanent Errors |
| 00000A00 | | | FREE | 271 | 0 |
| 00000A01 | | | FREE | 159 | 0 |
| 00000A02 | | | FREE | 21603 | 0 |
| 00000A03 | | | FREE | 684 | 0 |
| 00000A04 | | | FREE | 1147 | 0 |
| 00000A05 | | | FREE | 544 | 0 |
| 00000A06 | | | FREE | 1796 | 0 |
| 00000A07 | | | FREE | 5594 | 0 |
| 00003A50 | | | FREE | 81 | 0 |
| 00003A51 | | | FREE | 93 | 0 |
| 00003A58 | | | FREE | 125 | 0 |
| 00003A59 | | | FREE | 65 | 0 |
| 00003A80 | | | FREE | 0 | 0 |
| 00003A81 | | | FREE | 0 | 0 |
| 00003A82 | | | FREE | 0 | 0 |
| 00003A83 | | | FREE | 0 | 0 |
| 00003A84 | | | FREE | 12379 | 0 |
| 00003A85 | | | FREE | 588 | 0 |
| 00003D60 | | | FREE | 0 | 0 |
| 00003D61 | | | FREE | 0 | 0 |
| 00003D62 | | | FREE | 0 | 0 |
| 00003D63 | | | FREE | 0 | 0 |

TAPE DRIVES – (KM5TPDRS)

File Edit View Tools Navigate Help

07/19/2014 10:20:07

Auto Update : Off

Plex ID : JACKPLEX

SMF ID : SP13

Command ==>

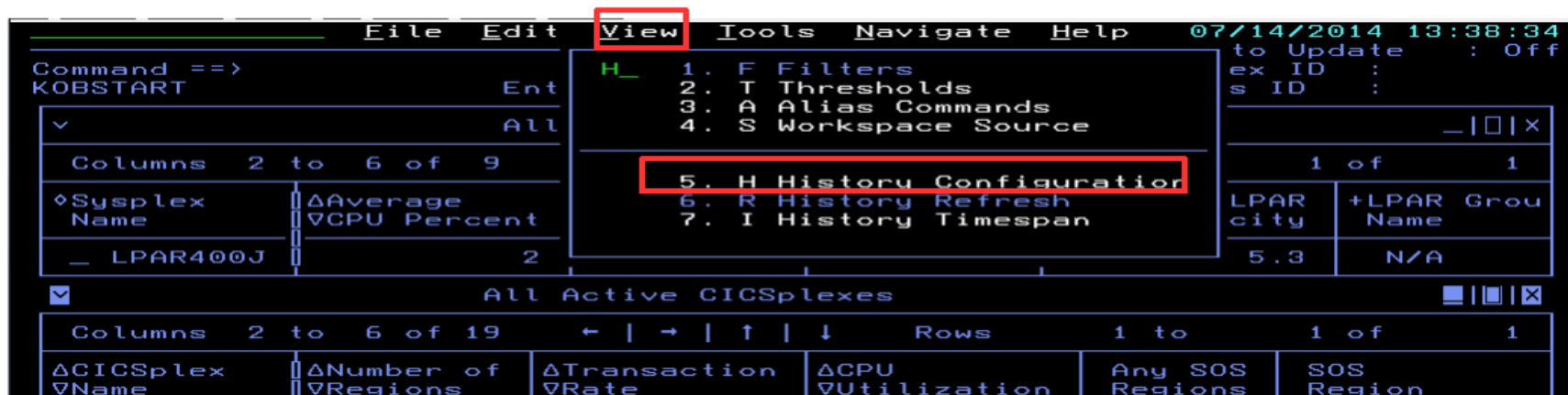
KM5TPDRS

Tape Drives

| Summary | | | | | |
|---------------------|------------|--------------------|------------------|----------------------|--|
| Columns 5 to 8 of 8 | | Rows 1 to 29 of 34 | | | |
| ΔAddress | ΔI/O Count | Permanent Errors | Temporary Errors | Tape Mount Wait Time | |
| 00000A00 | 271 | 0 | 0 | 0 | |
| 00000A01 | 159 | 0 | 0 | 0 | |
| 00000A02 | 21603 | 0 | 0 | 0 | |
| 00000A03 | 684 | 0 | 0 | 0 | |
| 00000A04 | 1147 | 0 | 0 | 0 | |
| 00000A05 | 544 | 0 | 0 | 0 | |
| 00000A06 | 1796 | 0 | 0 | 0 | |
| 00000A07 | 5594 | 0 | 0 | 0 | |
| 00003A50 | 81 | 0 | 0 | 0 | |
| 00003A51 | 93 | 0 | 0 | 0 | |
| 00003A58 | 125 | 0 | 0 | 0 | |
| 00003A59 | 65 | 0 | 0 | 0 | |
| 00003A80 | 0 | 0 | 0 | 0 | |
| 00003A81 | 0 | 0 | 0 | 0 | |
| 00003A82 | 0 | 0 | 0 | 0 | |
| 00003A83 | 0 | 0 | 0 | 0 | |
| 00003A84 | 12379 | 0 | 0 | 0 | |
| 00003A85 | 588 | 0 | 0 | 0 | |
| 00003D60 | 0 | 0 | 0 | 0 | |
| 00003D61 | 0 | 0 | 0 | 0 | |
| 00003D62 | 0 | 0 | 0 | 0 | |
| 00003D63 | 0 | 0 | 0 | 0 | |
| 00003D64 | 0 | 0 | 0 | 0 | |

Enhanced 3270UI Historical Data Collection Configuration

- **Action Bar: View, H to invoke the Historical collection configuration dialogs**



The screenshot shows a terminal window with a menu open. The menu items are:

1. F Filters
2. T Thresholds
3. A Alias Commands
4. S Workspace Source
5. H History Configuration
6. R History Refresh
7. I History Timespan

The 'View' menu is highlighted in red, and the 'H History Configuration' option is also highlighted in red. The terminal background shows a table with columns for 'ΔCICSplex Name', 'ΔNumber of Regions', 'ΔTransaction Rate', 'ΔCPU Utilization', 'Any SOS Regions', and 'SOS Region'. The current row shows 'LPAR400J' with values '2', '2', '5.3', and 'N/A'.

- **...to navigate to the KOBHISTL workspace and launch product specific historical collection configuration**



Enhanced 3270UI – Self Describing Agent (SDA) Info

- =KOBSDA command

```

=kobsda_____ File Edit View Tools Navigate Help 07/15/2014 11:45:41
Command ==> _____ Auto Update : _____
KOBSTART..... Enterprise Summary..... Plex ID : _____
_____ File Edit View Tools Navigate Help Sys ID : _____

```

```

Command ==> _____ Auto Update : Off
KOBSDA Self-Describing Agent (SDA) Overview Plex ID : _____
Sys ID : _____

```

```

SDA Installation Status for OMD1HUB:CMS
Columns 3 to 4 of 13 Rows 1 to 20 of 66

```

| ΔSeed Process ▽Status | ΔProduct Name ▽ | ΔProduct ▽Version | ΔManaging ▽System |
|--------------------------|-----------------------|----------------------|----------------------|
| Operation successf | OMEGAMON for CICS | 05300120 | SYSL:CMS |
| Operation successf | OMEGAMON for CICS TG | 05300098 | SYSL:CMS |
| Operation successf | OMEGAMON for IMS | 05300006 | SYSL:CMS |
| Manual install det | OMEGAMON for MQSeries | 07300000 | SYSL:CMS |
| Manual install det | OMEGAMON for z/OS | 05300012 | SYSL:CMS |
| Manual install det | OMEGAMON for Storage | 05300000 | SYSL:CMS |
| Operation successf | OMEGAMON for CICS | 05300120 | SYSG:CMS |
| Manual install det | OMEGAMON for DB2 | 05200000 | SYSG:CMS |
| Operation successf | OMEGAMON for CICS TG | 05300098 | SYSG:CMS |
| Operation successf | OMEGAMON for IMS | 05300006 | SYSG:CMS |
| Manual install det | OMEGAMON for MQSeries | 07300000 | SYSG:CMS |
| Manual install det | OMEGAMON for z/OS | 05300012 | SYSG:CMS |
| Manual install det | OMEGAMON for Storage | 05300000 | SYSG:CMS |
| Operation successf | OMEGAMON for CICS | 05300120 | SP23:CMS |
| Operation successf | OMEGAMON for CICS TG | 05300098 | SP23:CMS |
| Operation successf | OMEGAMON for IMS | 05300006 | SP23:CMS |
| Manual install det | OMEGAMON for MQSeries | 07300000 | SP23:CMS |
| Manual install det | OMEGAMON for z/OS | 05300012 | SP23:CMS |
| Manual install det | OMEGAMON for Storage | 05300000 | SP23:CMS |
| Operation successf | OMEGAMON for CICS | 05300120 | SP22:CMS |

```

SDA Configuration Information for OMD1HUB:CMS
Columns 2 to 4 of 5 Rows 1 to 10 of 10

```

| ΔManaging ▽System | ΔProduct Name ▽ | ΔSDA Record ▽Type | ΔLast ▽Updated |
|----------------------|--------------------|----------------------|-------------------|
| SYSL:CMS | Monitoring Server | Server SDA Status | 14/07/13 |
| SYSG:CMS | Monitoring Server | Server SDA Status | 14/07/13 |

Tuesday July 15 2014

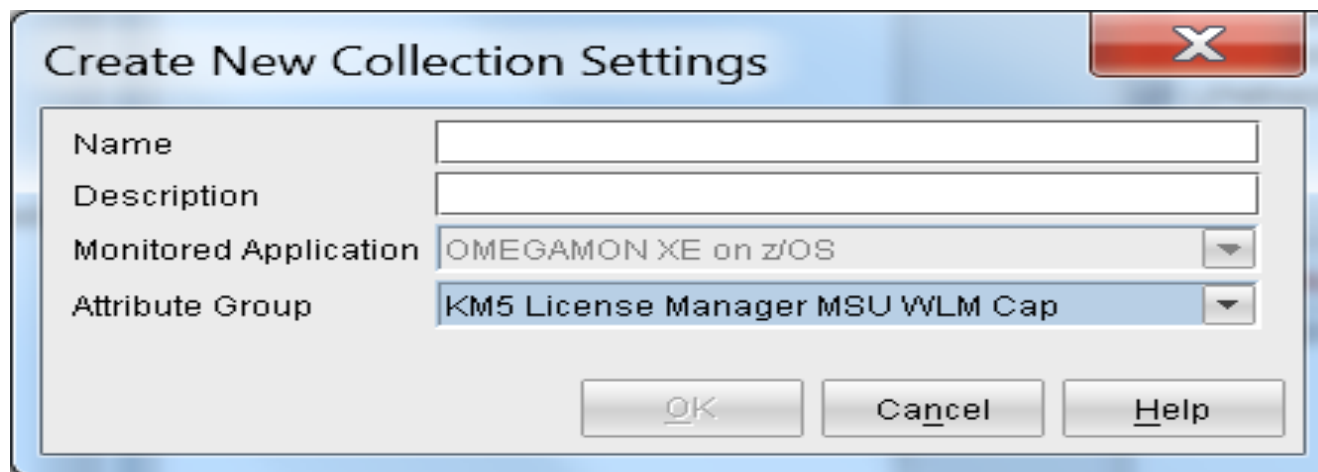
MORE ▾

License Manager MSU WLM Cap

- History collection now available
- Row Count Attribute added

The Row Count allows queries or situations to select specific data rows for processing.

(example showing attribute group to select for history collection)



Create New Collection Settings

Name

Description

Monitored Application OMEGAMON XE on z/OS

Attribute Group KM5 License Manager MSU WLM Cap

OK Cancel Help

License Manager MSU WLM Cap



(Query for License Manager MSU WLM Cap table selected for lower half of Channel Path Activity report)

| Row Count | Managed System | % LPAR Capped | % LPAR MSU Capacity | % LPAR Uncapped | % Time Capped | % Time Uncapped | 4 Hour MSUs | Average % Time Capped | Average % Time Uncapped | Average Unused Group MSUs | Capped MSUs/Hour | Group LPAR MSU Limit | LPAR Capacity Limit | LPAR Capacity Limit Basis | LPAR Defined Capacity Set | LPAR Capacity |
|-----------|---------------------|---------------|---------------------|-----------------|---------------|-----------------|-------------|-----------------------|-------------------------|---------------------------|------------------|----------------------|---------------------|---------------------------|---------------------------|---------------|
| 1 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 8.37 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 2 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 10.24 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 3 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.53 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 4 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.63 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 5 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.16 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 6 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.25 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 7 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.30 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 8 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.33 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 9 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.59 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 10 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.49 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 11 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.27 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 12 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.70 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 13 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 11.08 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 14 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.54 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 15 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.10 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 16 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 9.37 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 17 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 25.33 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 18 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 33.10 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |
| 19 | LPAR400J:SYS:MVSSYS | 0.00 | 13.4 | 33.42 | 0.00 | 100.00 | 43 | Unavailable | Unavailable | Unavailable | 0.00 | Unavailable | 320 | Entitled | No | Unav |

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

IBM System z Service Management critical for moving to Mobile, Big Data and Cloud



IBM continues to improve z/OS environment to support new technologies

- IBM SmartCloud Analytics – Log Analysis z/OS Insight Packs 1.1.0.1
- IBM Service Management Suite for z/OS V1.2
- IBM Tivoli OMEGAMON Performance Management Suite for z/OS V5.3.0
- IBM Tivoli OMEGAMON XE on z/OS 5.3.0, IBM Tivoli OMEGAMON Dashboard Edition on z/OS 5.3.0, IBM Tivoli OMEGAMON XE for Messaging for z/OS 7.3.0, IBM Tivoli OMEGAMON XE for CICS on z/OS 5.3.0, IBM Tivoli OMEGAMON XE for Storage on z/OS 5.3.0
- IBM Tivoli System Automation for z/OS V3.5
- IBM Automation Control for z/OS V1.1.1
- IBM Tivoli NetView for z/OS V6.2.1
- IBM Tivoli NetView Monitoring for GDPS V6.2.1
- IBM Tivoli Workload Scheduler for z/OS V9.2

Learn More: <http://www-01.ibm.com/software/os/systemz/itsm/>

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<https://www.ibm.com/developerworks/servicemanagement/z/>

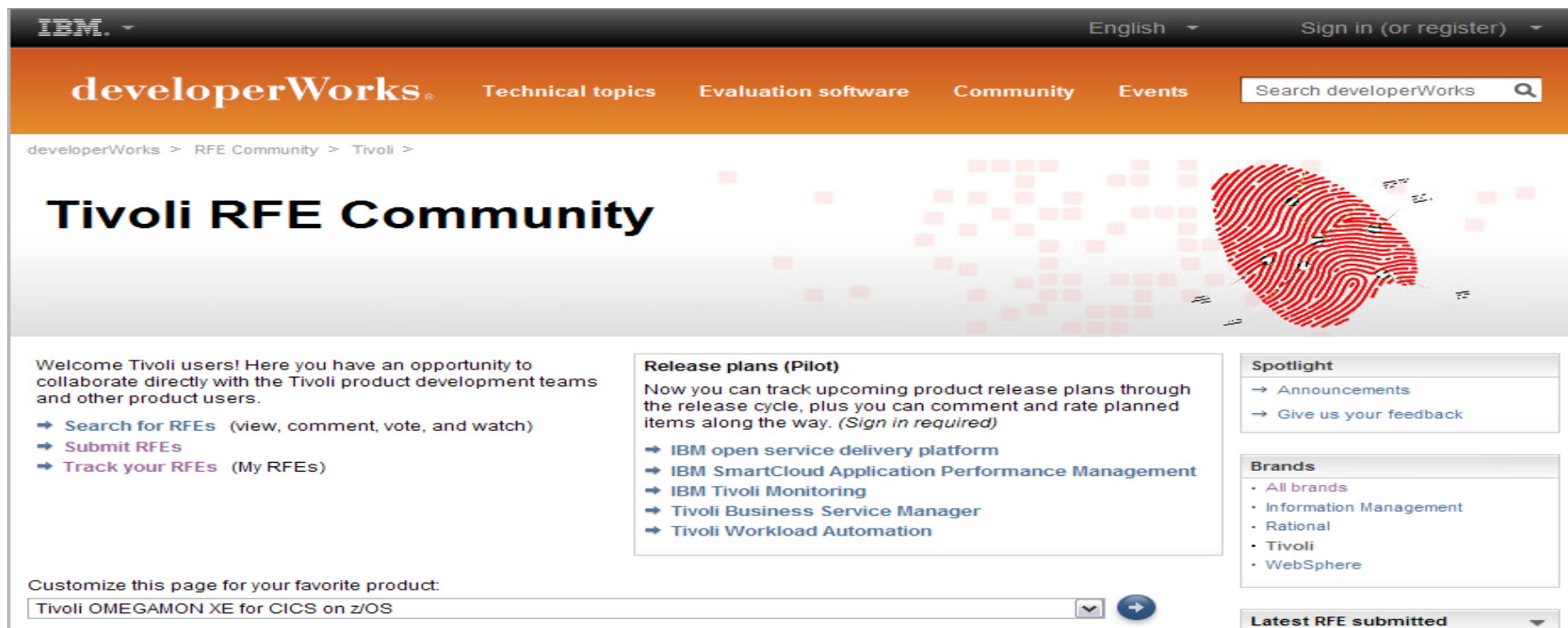
And, Mainframe Insights:

https://www-304.ibm.com/connections/blogs/systemz/?lang=en_us

Twitter: @ServMgmtConnect @systemz #mainframe #servicemgmt



Tivoli RFE Community



The screenshot shows the IBM developerWorks website interface for the Tivoli RFE Community. At the top, there is a navigation bar with the IBM logo, language selection (English), and a sign-in/register link. Below this is a secondary navigation bar with categories like 'Technical topics', 'Evaluation software', 'Community', and 'Events', along with a search bar. The main content area features a large header for 'Tivoli RFE Community' with a decorative background of red squares and a fingerprint graphic. The page is divided into several sections: a welcome message, a 'Release plans (Pilot)' section with a list of products, a 'Spotlight' section with links to announcements and feedback, a 'Brands' section listing various product lines, and a 'Latest RFE submitted' section. At the bottom, there is a customization dropdown menu set to 'Tivoli OMEGAMON XE for CICS on z/OS'.

Tivoli RFE Community

http://www.ibm.com/developerworks/rfe/?BRAND_ID=90

Summary

- OMEGAMON XE on zOS v5.3 overview
- OMEGAMON XE for Storage on zOS v5.3 overview
- OMEGAMON XE on zOS v5.3 details
- OMEGAMON XE on zOS v5.3 problem solving
- Summary

Backup:

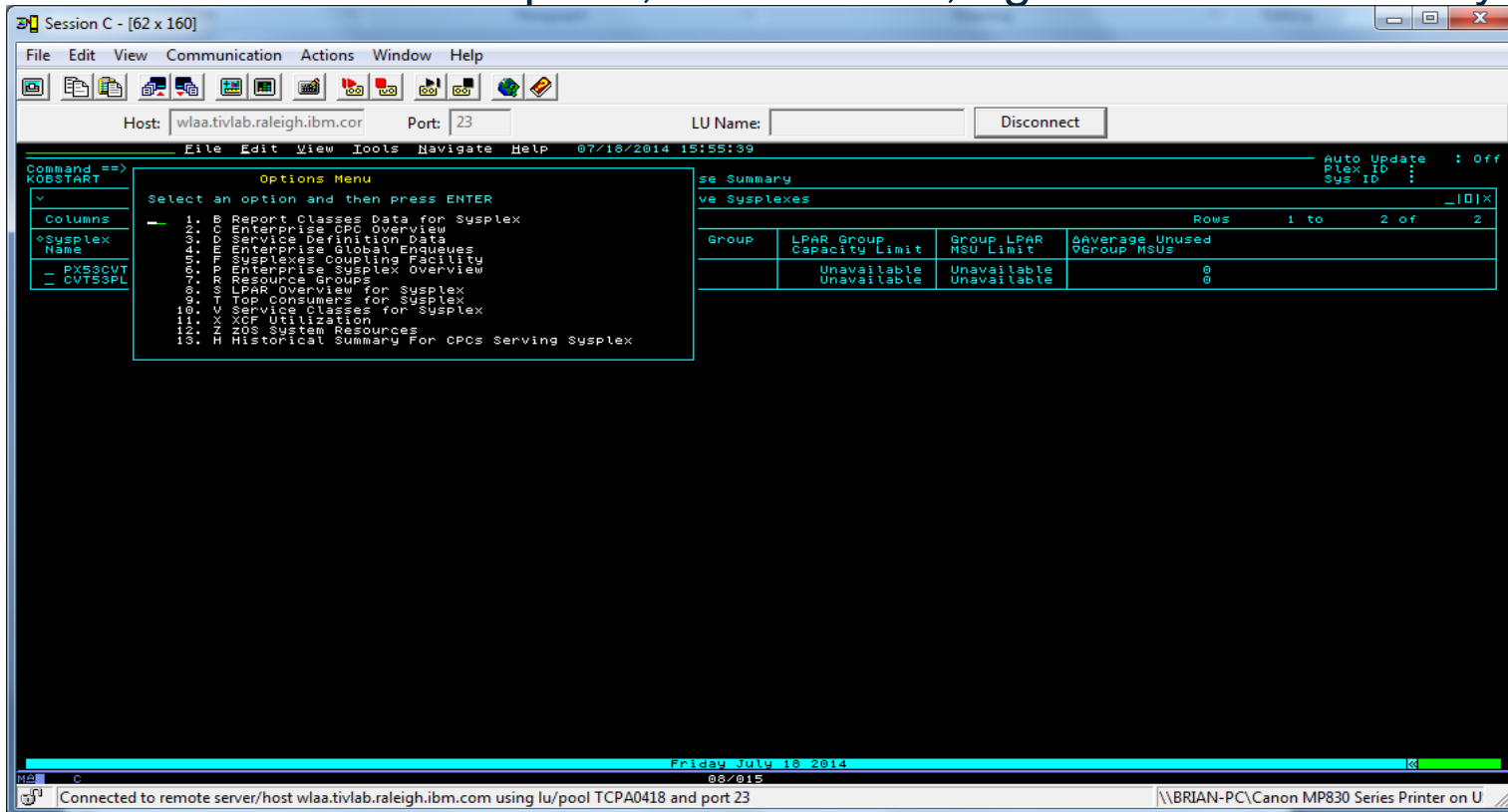


Additional materials

- NTH XE zOS DASD Scenario
- Parmgen First Time User (FTU)
- IBM System z Service Management

Near Term History: DASD Scenario

- I work in Operations support and on 07/18/14 at about 3pm I receive a call that a users batch jobs BKEALIO1 and BKEALIO2 in the CVT53PLX sysplex are being delayed.
- From the initial workspace, KOBSTART, I go to the menu for sysplex



The screenshot shows a terminal window titled "Session C - [62 x 160]". The window has a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The main area displays the following content:

Host: wlaa.tivlab.raleigh.ibm.com Port: 23 LU Name: Disconnect

File Edit View Tools Navigate Help 07/18/2014 15:55:39 Auto Update : Off

Command ==> KOBSTART

Options Menu
Select an option and then press ENTER

| Columns | Options |
|---------|--|
| 1 | B Report Classes Data for Sysplex |
| 2 | CC Enterprise CPC Overview |
| 3 | DD Service Definition Data |
| 4 | EE Enterprise Global Enqueues |
| 5 | FF Sysplex Coupling Facility |
| 6 | PP Enterprise Sysplex Overview |
| 7 | RR Resource Groups |
| 8 | SS LPAR Overview for Sysplex |
| 9 | TT Top Consumers for Sysplex |
| 10 | UU Service Classes for Sysplex |
| 11 | VV XCF Utilization |
| 12 | ZZ ZOS System Resources |
| 13 | HH Historical Summary For CPCs Serving Sysplex |

se Summary
ve Sysplexes

| Group | LPAR Group Capacity Limit | Group LPAR MSU Limit | Average Unused @Group MSUs | Rows | 1 to | 2 of |
|-------|---------------------------|----------------------|----------------------------|------|------|------|
| | Unavailable | Unavailable | 0 | 2 | | |

Friday July 18 2014 03:015

Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23 \\BRIAN-PC\Canon MP830 Series Printer on U

Near Term History: DASD Scenario

- I select the “V” option to see service classes right now

Session C - [62 x 160]

File Edit View Communication Actions Window Help

Host: wlaa.tivlab.raleigh.ibm.com Port: 23 LU Name: Disconnect

07/18/2014 15:08:05

Command ==> KMSVSCO Service Classes for Sysplex

Auto Update : Off
Plex ID : CVT53PLX
SMF ID :

Summary

Columns 3 to 10 of 12 Rows 1 to 19 of 19

| Service Class | Period | Goal Importance | Performance Index | Worst Performance Index | Goal | Goal Type | Transaction Rate | Workload | Actual Netwo |
|---------------|--------|-----------------|-------------------|-------------------------|--------------------------|-----------|------------------|----------|--------------|
| IMSMPRS | 1 | High | 30.00 | 30.00 | Velocity(+1/0) > 30 | Velocio | 0.0 | BATCH | |
| STC | 1 | High | 10.00 | 10.00 | Velocity(+1/0) > 30 | Velocio | 0.0 | STC | |
| OMVSJOBS | 1 | Medium | 10.00 | 10.00 | Velocity(+1/0) > 10 | Velocio | 0.0 | OPENEDTN | |
| CICSTEST | 1 | High | 4.10 | 4.10 | Pct Resp 95 % < 1.0 s | PctResp | 49.7 | CICS | |
| STCONLY | 1 | High | 4.00 | 5.00 | Velocity(+1/0) > 20 | Velocio | 0.0 | STC | |
| STCPRD | 1 | High | 1.25 | 1.42 | Velocity(+1/0) > 20 | Velocio | 0.0 | STC | |
| STCCMS | 1 | Medium | 0.90 | 0.90 | Velocity(+1/0) > 20 | Velocio | 0.0 | STC | |
| CICS | 1 | High | 0.50 | 0.50 | Pct Resp 90 % < 1.0 s | PctResp | 0.0 | CICS | |
| TSO | 1 | Highest | 0.50 | 0.50 | Pct Resp 40 % < 750.0 ms | PctResp | 0.0 | TSO | |
| STC | 1 | Medium | 0.43 | 0.57 | Velocity(+1/0) > 20 | Velocio | 0.0 | STC | |
| TSO | 1 | Medium | 0.35 | 0.35 | Velocity(+1/0) > 30 | Velocio | 0.0 | TSO | |
| BATCH | 1 | Medium | 0.28 | 0.28 | Velocity(+1/0) > 15 | Velocio | 0.0 | BATCH | |
| TSO | 1 | Highest | 0.10 | 0.10 | Avg Resp < 500.0 ms | AvgResp | 0.4 | TSO | |
| TSO | 1 | High | 0.00 | 0.00 | Avg Resp < 5.0 s | AvgResp | 0.0 | TSO | |
| OMVSJOBS | 1 | High | 0.00 | 0.00 | Velocity(+1/0) > 20 | Velocio | 0.0 | OPENEDTN | |
| SYSTEM | 1 | Unavailable | 0.00 | 0.00 | Sys Goal | SysGoal | 0.0 | SYSTEM | |
| SYSSIC | 1 | Unavailable | 0.00 | 0.00 | Sys Goal | SysGoal | 0.0 | SYSTEM | |
| SYSDTHER | 1 | Unavailable | 0.00 | 0.00 | Sys Goal | SysGoal | 0.0 | SYSTEM | |
| BATCH | 1 | Medium | 0.00 | 0.00 | Velocity(+1/0) > 30 | Velocio | 0.0 | BATCH | |

Friday July 18 2014

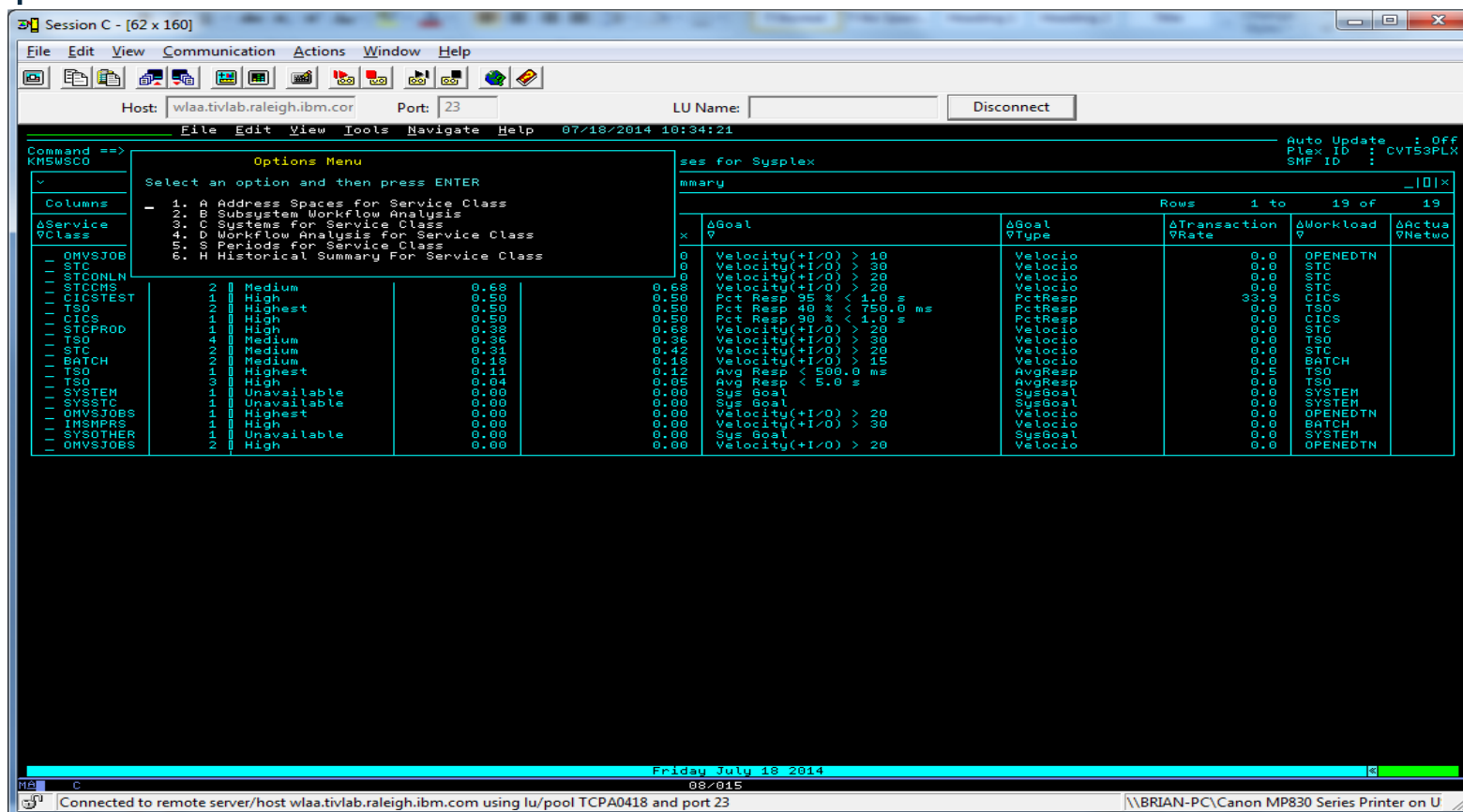
01/002

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\\BRIAN-PC\Canon MP830 Series Printer on U

Near Term History: DASD Scenario

- Looking at Service Classes for Sysplex I see nothing suspicious for batch class but decide to look further at batch period 2 for Workflow Analysis, option “D”



Command ==> KMSMSCD

Options Menu

Select an option and then press ENTER

1. A Address Spaces for Service Class
2. B Subsystem Workflow Analysis
3. C Systems for Service Class
4. D WorkFlow Analysis for Service Class
5. E Periods for Service Class
6. H Historical Summary For Service Class

ses for Sysplex

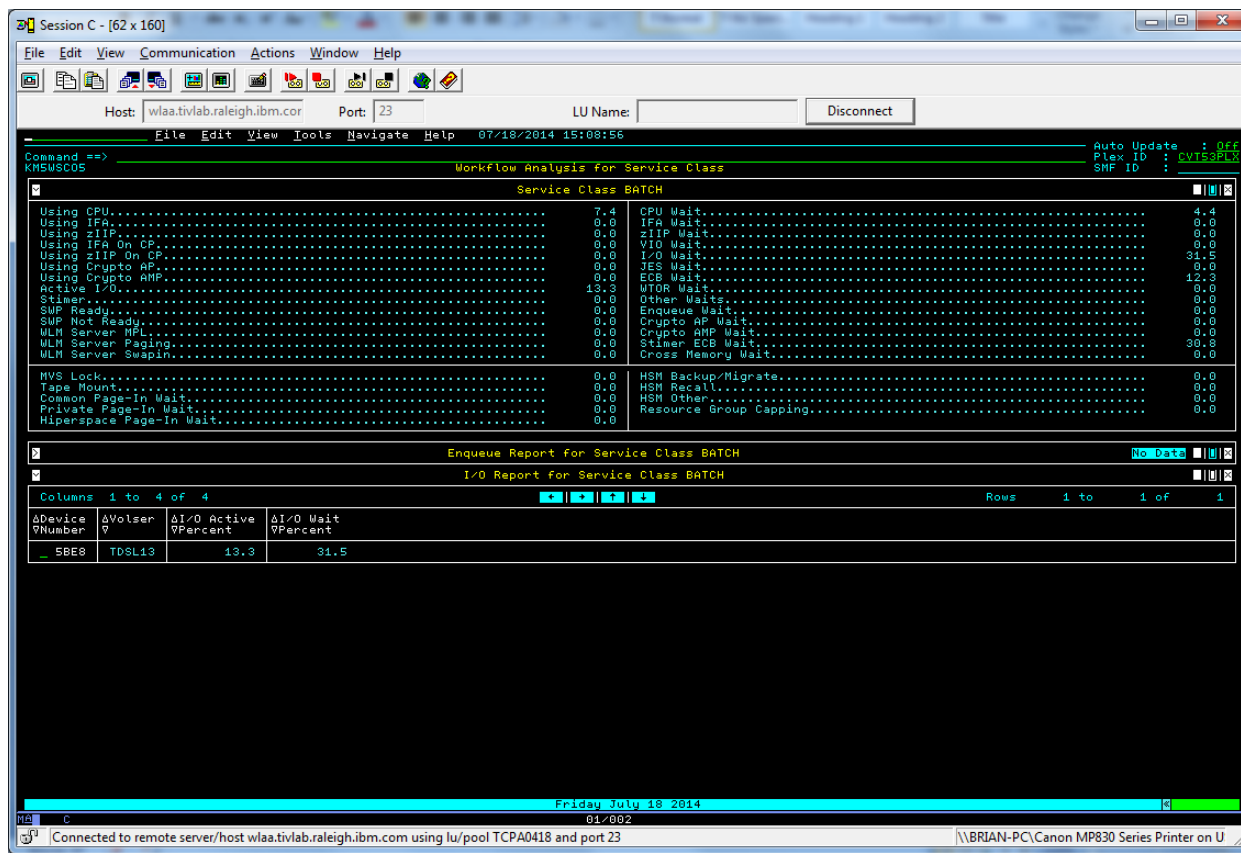
| mmary | | Rows 1 to 19 of 19 | | | | |
|-------|-------|--------------------------|--------------|-----------|--------|----------|
| x | ΔGoal | ΔGoal | ΔTransaction | ΔWorkload | ΔActua | |
| | ? | ?Type | ?Rate | ? | ?Netwo | |
| 0 | 0.00 | Velocity(+I/O) > 10 | 0.00 | 0.00 | 0.00 | OPENEDTN |
| | | Velocity(+I/O) > 30 | 0.00 | 0.00 | 0.00 | STC |
| | | Velocity(+I/O) > 20 | 0.00 | 0.00 | 0.00 | STC |
| | 0.68 | Velocity(+I/O) > 20 | 0.00 | 0.00 | 0.00 | STC |
| | 0.50 | Pct Resp 95 % < 1.00 s | 33.3 | 0.00 | 0.00 | CICS |
| | 0.50 | Pct Resp 40 % < 750.0 ms | 0.00 | 0.00 | 0.00 | TSO |
| | 0.50 | Pct Resp 90 % < 1.00 s | 0.00 | 0.00 | 0.00 | CICS |
| | 0.68 | Velocity(+I/O) > 20 | 0.00 | 0.00 | 0.00 | STC |
| | 0.36 | Velocity(+I/O) > 30 | 0.00 | 0.00 | 0.00 | TSO |
| | 0.42 | Velocity(+I/O) > 20 | 0.00 | 0.00 | 0.00 | STC |
| | 0.18 | Velocity(+I/O) > 15 | 0.00 | 0.00 | 0.00 | BATCH |
| | 0.14 | Avg Resp < 500.0 ms | 0.5 | 0.00 | 0.00 | TSO |
| | 0.04 | Avg Resp < 5.0 s | 0.00 | 0.00 | 0.00 | STC |
| | 0.00 | Sys Goal | 0.00 | 0.00 | 0.00 | SYSTEM |
| | 0.00 | Sys Goal | 0.00 | 0.00 | 0.00 | SYSTEM |
| | 0.00 | Velocity(+I/O) > 20 | 0.00 | 0.00 | 0.00 | OPENEDTN |
| | 0.00 | Velocity(+I/O) > 30 | 0.00 | 0.00 | 0.00 | BATCH |
| | 0.00 | Sys Goal | 0.00 | 0.00 | 0.00 | SYSTEM |
| | 0.00 | Velocity(+I/O) > 20 | 0.00 | 0.00 | 0.00 | OPENEDTN |

Friday July 18 2014

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Near Term History: DASD Scenario

- Workflow Analysis shows that the service class is seeing I/O activity for device TDSL13



Session C - [62 x 160]
Host: wlaa.tivlab.raleigh.ibm.cor Port: 23 LU Name: Disconnect

Command ==> KMSUSC05 Workflow Analysis for Service Class
Auto Update : Off
Plex ID : CVT53PLX
SWF ID :

Service Class BATCH

| | | | |
|------------------------------|------|-----------------------------|------|
| Using CPU..... | 7.4 | CPU Wait..... | 4.4 |
| Using IFA..... | 0.0 | IFA Wait..... | 0.0 |
| Using zIIP..... | 0.0 | zIIP Wait..... | 0.0 |
| Using IFA On CP..... | 0.0 | VIO Wait..... | 0.0 |
| Using zIIP On CP..... | 0.0 | I/O Wait..... | 31.5 |
| Using Crypto AP..... | 0.0 | JES Wait..... | 0.0 |
| Using Crypto RMP..... | 0.0 | ECB Wait..... | 12.3 |
| Active I/O..... | 13.3 | MTOR Wait..... | 0.0 |
| Stimer..... | 0.0 | Other Waits..... | 0.0 |
| SMP Ready..... | 0.0 | Enqueue Wait..... | 0.0 |
| SMP Not Ready..... | 0.0 | Crypto AP Wait..... | 0.0 |
| WLM Server MPL..... | 0.0 | Crypto RMP Wait..... | 0.0 |
| WLM Server Paging..... | 0.0 | Stimer COB Wait..... | 30.8 |
| WLM Server Swapin..... | 0.0 | Cross Memory Wait..... | 0.0 |
| MVS Lock..... | 0.0 | HSM Backup/Migrate..... | 0.0 |
| Tape Mount..... | 0.0 | HSM Recall..... | 0.0 |
| Common Page-In Wait..... | 0.0 | HSM Other..... | 0.0 |
| Private Page-In Wait..... | 0.0 | Resource Group Capping..... | 0.0 |
| Hiperspace Page-In Wait..... | 0.0 | | |

Enqueue Report for Service Class BATCH
No Data

I/O Report for Service Class BATCH

| ΔDevice Number | ΔVolser | ΔI/O Active Percent | ΔI/O Wait Percent |
|----------------|---------|---------------------|-------------------|
| SBE8 | TDSL13 | 13.3 | 31.5 |

Friday July 18 2014
01/002
Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23

- Lets look at history for this device. Select “H” for history

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Near Term History: DASD Scenario

- Activity rate and Active Percent are quite high over the last 2 hours.

Session C - [62 x 160]

File Edit View Communication Actions Window Help

Host: wlaa.tivlab.raleigh.ibm.cor Port: 23 LU Name: Disconnect

07/18/2014 15:09:56

Command ==> Historical DASD Device Summary Display : HISTORY
KMSDRSHH Plex ID : C1158PLX
SWF ID : S15

Device TDSL13

Columns 3 to 11 of 20 Rows 1 to 24 of 24

| Recording Date/Time | Device Number | Response Time | ΔDevice Busy %Percent | Activity rate | ΔActive %Percent | IO Intensity | I/O queue time | ΔPending %Percent | ΔConnect %Percent | ΔDisconnect %Percent |
|---------------------|---------------|---------------|-----------------------|---------------|------------------|--------------|----------------|-------------------|-------------------|----------------------|
| 14/07/18 15:05:00 | 5BEE | 0.9 | 0 | 2927.0 | 89 | 2779 | 0.6 | 43 | 46 | 0 |
| 14/07/18 15:00:00 | 5BEE | 0.9 | 0 | 3003.0 | 89 | 2734 | 0.6 | 43 | 46 | 0 |
| 14/07/18 14:55:00 | 5BEE | 0.9 | 0 | 3039.0 | 89 | 2816 | 0.6 | 43 | 46 | 0 |
| 14/07/18 14:50:00 | 5BEE | 0.9 | 0 | 2965.0 | 89 | 2793 | 0.6 | 43 | 46 | 0 |
| 14/07/18 14:45:00 | 5BEE | 1.0 | 0 | 3011.0 | 89 | 2859 | 0.7 | 43 | 46 | 0 |
| 14/07/18 14:40:00 | 5BEE | 0.9 | 0 | 3008.0 | 89 | 2746 | 0.6 | 43 | 46 | 0 |
| 14/07/18 14:35:00 | 5BEE | 1.0 | 0 | 2950.0 | 90 | 2810 | 0.6 | 43 | 47 | 0 |
| 14/07/18 14:30:00 | 5BEE | 1.0 | 0 | 2948.0 | 90 | 2834 | 0.7 | 44 | 46 | 0 |
| 14/07/18 14:25:00 | 5BEE | 1.0 | 0 | 2919.0 | 90 | 2920 | 0.7 | 43 | 47 | 0 |
| 14/07/18 14:20:00 | 5BEE | 0.9 | 0 | 2961.0 | 88 | 2739 | 0.6 | 43 | 45 | 0 |
| 14/07/18 14:15:00 | 5BEE | 0.9 | 0 | 2976.0 | 88 | 2805 | 0.6 | 43 | 45 | 0 |
| 14/07/18 14:10:00 | 5BEE | 1.0 | 0 | 2974.0 | 89 | 2967 | 0.7 | 43 | 46 | 0 |
| 14/07/18 14:05:00 | 5BEE | 0.9 | 0 | 2963.0 | 89 | 2743 | 0.6 | 43 | 46 | 0 |
| 14/07/18 14:00:00 | 5BEE | 0.9 | 0 | 3049.0 | 88 | 2686 | 0.6 | 43 | 45 | 0 |
| 14/07/18 13:55:00 | 5BEE | 0.9 | 0 | 2985.0 | 88 | 2719 | 0.6 | 43 | 45 | 0 |
| 14/07/18 13:50:00 | 5BEE | 0.9 | 0 | 3058.0 | 88 | 2636 | 0.6 | 43 | 45 | 0 |
| 14/07/18 13:45:00 | 5BEE | 0.9 | 0 | 3102.0 | 89 | 2739 | 0.6 | 44 | 45 | 0 |
| 14/07/18 13:40:00 | 5BEE | 0.9 | 0 | 3118.0 | 89 | 2686 | 0.6 | 44 | 45 | 0 |
| 14/07/18 13:35:00 | 5BEE | 0.8 | 0 | 3202.0 | 88 | 2666 | 0.6 | 44 | 44 | 0 |
| 14/07/18 13:30:00 | 5BEE | 0.9 | 0 | 3202.0 | 87 | 2772 | 0.6 | 44 | 43 | 0 |
| 14/07/18 13:25:00 | 5BEE | 0.9 | 0 | 3106.0 | 89 | 2721 | 0.6 | 45 | 44 | 0 |
| 14/07/18 13:20:00 | 5BEE | 0.9 | 0 | 3132.0 | 88 | 2759 | 0.6 | 44 | 44 | 0 |
| 14/07/18 13:15:00 | 5BEE | 0.8 | 0 | 3188.0 | 88 | 2660 | 0.6 | 44 | 44 | 0 |
| 14/07/18 13:10:00 | 5BEE | 0.9 | 0 | 3137.0 | 89 | 2793 | 0.6 | 45 | 44 | 0 |

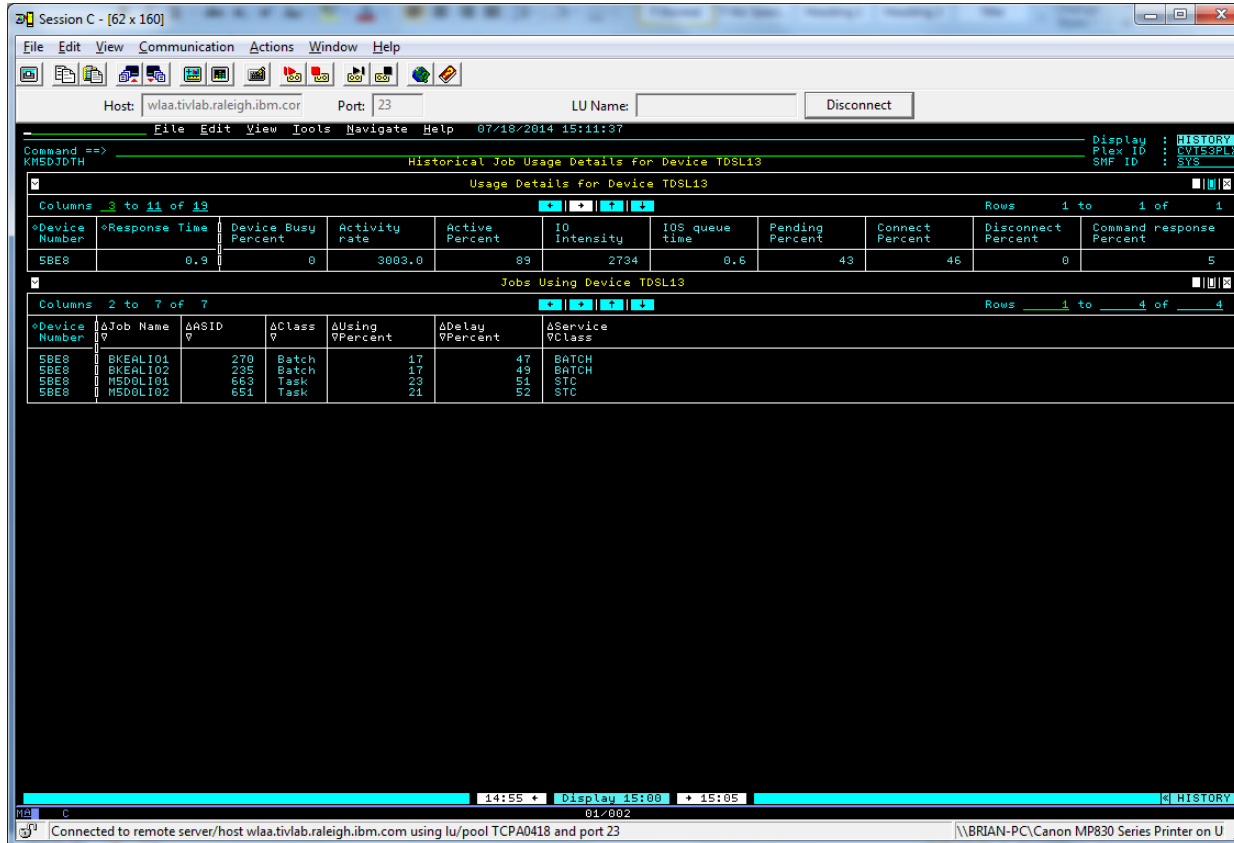
18 July 13:09 to 18 July 15:09 HISTORY

Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23

- What jobs are using device? Select "S" for jobs on any row.

Near Term History: DASD Scenario

- Indeed the batch jobs I was called about are delayed for the device. We also see that there are two started tasks contending for use of the device.



Session C - [62 x 160]

Host: wlaa.tivlab.raleigh.ibm.com Port: 23 LU Name: Disconnect

Command ==> Historical Job Usage Details for Device TDSL13

Usage Details for Device TDSL13

| Device Number | Response Time | Device Busy Percent | Activity Rate | Active Percent | I/O Intensity | I/O queue time | Pending Percent | Connect Percent | Disconnect Percent | Command response Percent |
|---------------|---------------|---------------------|---------------|----------------|---------------|----------------|-----------------|-----------------|--------------------|--------------------------|
| SBE8 | 0.9 | 0 | 3003.0 | 89 | 2734 | 0.6 | 43 | 46 | 0 | 5 |

Jobs Using Device TDSL13

| Device Number | Job Name | ASID | Class | Using Percent | Delay Percent | Service Class |
|---------------|----------|------|-------|---------------|---------------|---------------|
| SBE8 | BKERL101 | 270 | Batch | 17 | 47 | BATCH |
| SBE8 | BKERL102 | 235 | Batch | 17 | 49 | BATCH |
| SBE8 | MSDOL101 | 663 | Task | 23 | 51 | STC |
| SBE8 | MSDOL102 | 651 | Task | 21 | 52 | STC |

14:55 Display 15:00 HISTORY

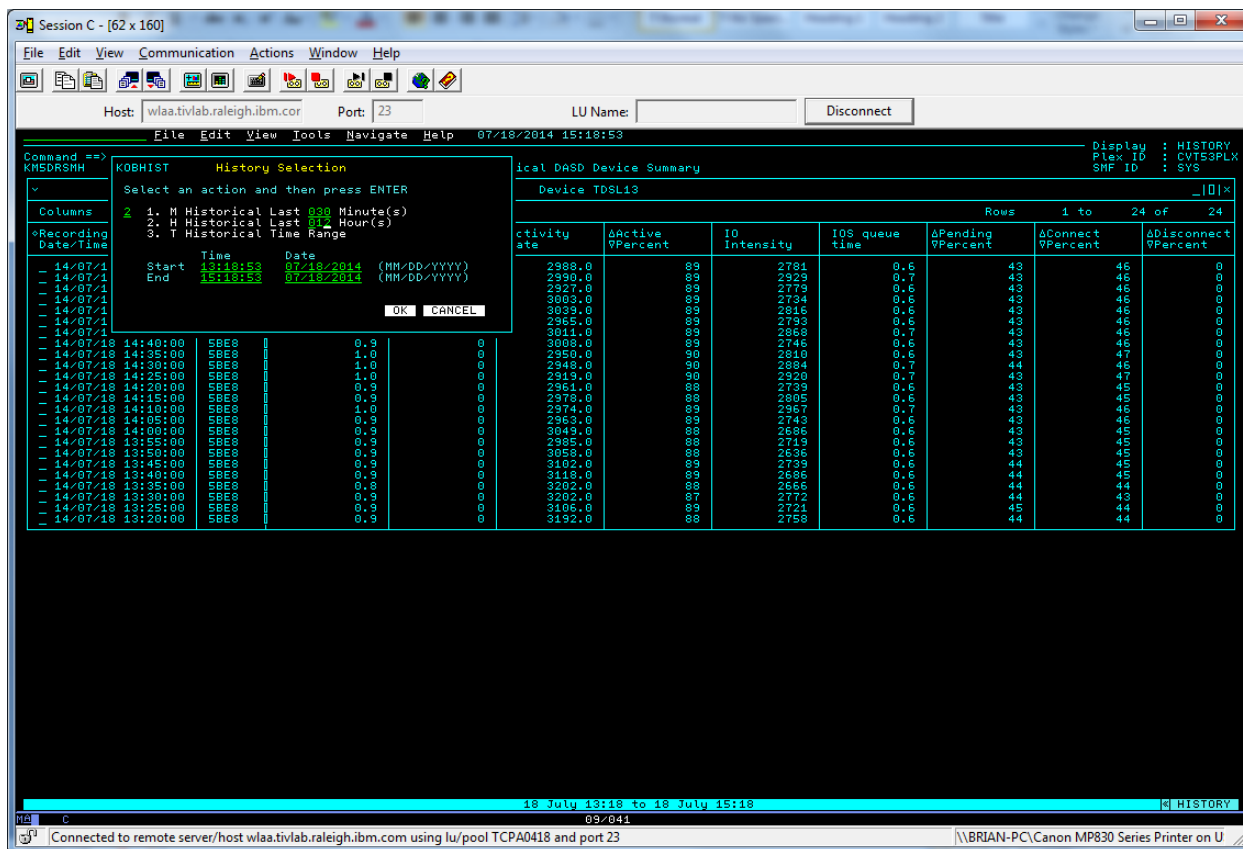
Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23

- When did this start?

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Near Term History: DASD Scenario

- I use history time configuration (View -> History Timespan) to look at the last 12 hours



The screenshot shows a mainframe terminal window titled "Session C - [62 x 160]". The window contains a "History Selection" dialog box and a table of DASD device activity.

History Selection Dialog:

```

KOBHIST History Selection
Select an action and then press ENTER
Columns 2 1. M Historical Last 030 Minute(s)
          2. H Historical Last 014 Hour(s)
          3. T Historical Time Range
Recording Date/Time Start Time Date (MM/DD/YYYY)
                   14:18:53 07/18/2014
                   End 14:18:53 07/18/2014
OK CANCEL
  
```

ical DASD Device Summary Table:

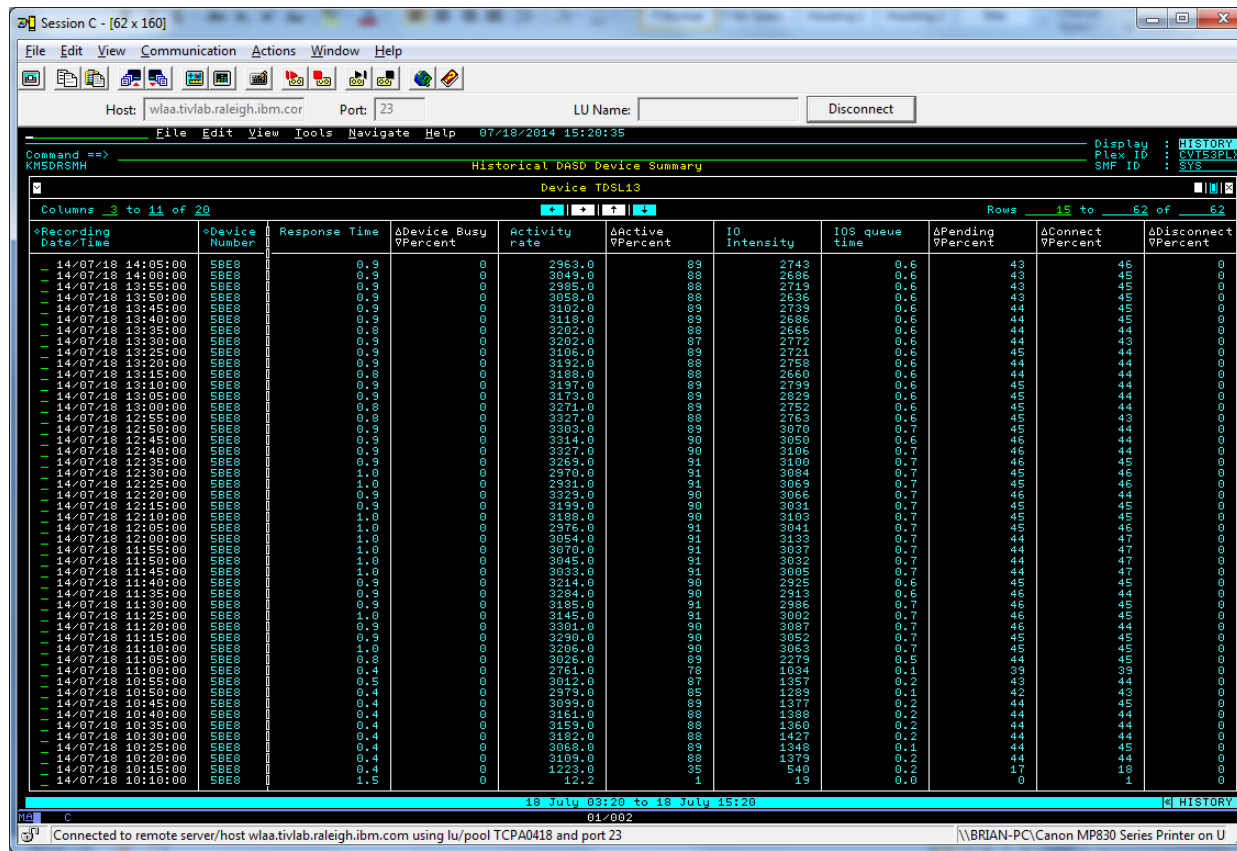
| activity site | ΔActive %Percent | IO Intensity | IOS queue time | ΔPending %Percent | ΔConnect %Percent | ΔDisconnect %Percent |
|---------------|------------------|--------------|----------------|-------------------|-------------------|----------------------|
| 2988.0 | 89 | 2784 | 0.6 | 43 | 46 | 0 |
| 2990.0 | 89 | 2929 | 0.7 | 43 | 46 | 0 |
| 2927.0 | 89 | 2779 | 0.6 | 43 | 46 | 0 |
| 3003.0 | 89 | 2734 | 0.6 | 43 | 46 | 0 |
| 3039.0 | 89 | 2915 | 0.6 | 43 | 46 | 0 |
| 2965.0 | 89 | 2793 | 0.6 | 43 | 46 | 0 |
| 3011.0 | 89 | 2668 | 0.7 | 43 | 46 | 0 |
| 3008.0 | 89 | 2745 | 0.6 | 43 | 46 | 0 |
| 2950.0 | 90 | 2810 | 0.6 | 43 | 47 | 0 |
| 2948.0 | 90 | 2884 | 0.7 | 44 | 46 | 0 |
| 2919.0 | 90 | 2920 | 0.7 | 43 | 47 | 0 |
| 2961.0 | 88 | 2739 | 0.6 | 43 | 45 | 0 |
| 2978.0 | 88 | 2805 | 0.6 | 43 | 45 | 0 |
| 2974.0 | 89 | 2967 | 0.7 | 43 | 46 | 0 |
| 2963.0 | 89 | 2743 | 0.6 | 43 | 46 | 0 |
| 3049.0 | 88 | 2686 | 0.6 | 43 | 45 | 0 |
| 2985.0 | 88 | 2713 | 0.6 | 43 | 45 | 0 |
| 3058.0 | 88 | 2636 | 0.6 | 43 | 45 | 0 |
| 3102.0 | 89 | 2739 | 0.6 | 44 | 45 | 0 |
| 3118.0 | 89 | 2686 | 0.6 | 44 | 45 | 0 |
| 3202.0 | 88 | 2656 | 0.6 | 44 | 44 | 0 |
| 3202.0 | 87 | 2772 | 0.6 | 44 | 43 | 0 |
| 3106.0 | 89 | 2721 | 0.6 | 45 | 44 | 0 |
| 3132.0 | 88 | 2758 | 0.6 | 44 | 44 | 0 |

18 July 13:18 to 18 July 15:18 HISTORY

Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23

Near Term History: DASD Scenario

- We scroll to the bottom of the range to see that activity for the device started at about 10:10am



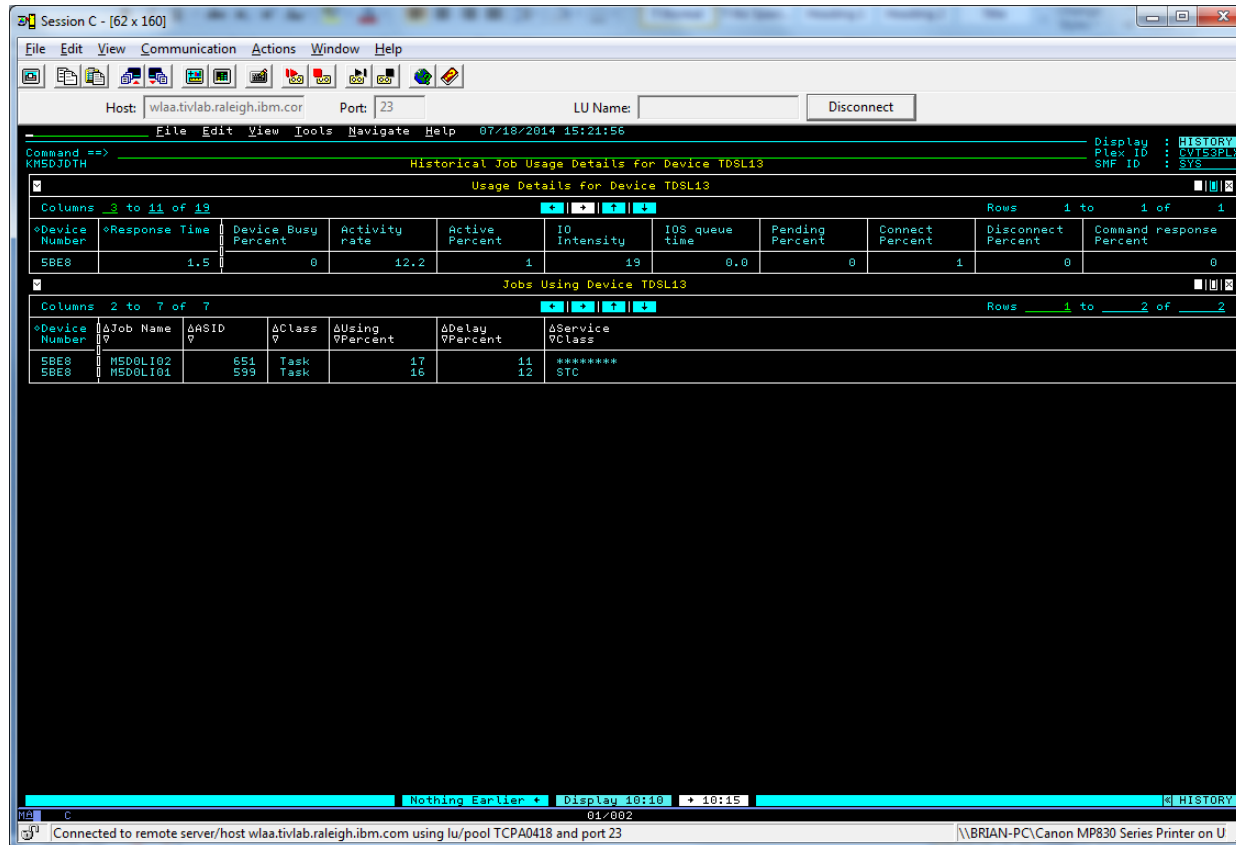
| Recording Date/Time | Device Number | Response Time | Device Busy %Percent | Activity rate | Active %Percent | IO Intensity | I/O queue time | Pending %Percent | Connect %Percent | Disconnect %Percent |
|---------------------|---------------|---------------|----------------------|---------------|-----------------|--------------|----------------|------------------|------------------|---------------------|
| 14/07/18 14:05:00 | 5BEE | 0.9 | 0 | 2983.0 | 89 | 2743 | 0.6 | 43 | 46 | 0 |
| 14/07/18 14:00:00 | 5BEE | 0.3 | 0 | 3049.0 | 88 | 2686 | 0.6 | 43 | 45 | 0 |
| 14/07/18 13:55:00 | 5BEE | 0.9 | 0 | 2885.0 | 88 | 2719 | 0.6 | 43 | 45 | 0 |
| 14/07/18 13:50:00 | 5BEE | 0.3 | 0 | 3058.0 | 88 | 2636 | 0.6 | 43 | 45 | 0 |
| 14/07/18 13:45:00 | 5BEE | 0.3 | 0 | 3102.0 | 89 | 2739 | 0.6 | 44 | 45 | 0 |
| 14/07/18 13:40:00 | 5BEE | 0.3 | 0 | 3118.0 | 89 | 2686 | 0.6 | 44 | 45 | 0 |
| 14/07/18 13:35:00 | 5BEE | 0.6 | 0 | 3202.0 | 88 | 2666 | 0.6 | 44 | 44 | 0 |
| 14/07/18 13:30:00 | 5BEE | 0.3 | 0 | 3202.0 | 87 | 2772 | 0.6 | 44 | 43 | 0 |
| 14/07/18 13:25:00 | 5BEE | 0.3 | 0 | 3106.0 | 89 | 2721 | 0.6 | 45 | 44 | 0 |
| 14/07/18 13:20:00 | 5BEE | 0.9 | 0 | 3132.0 | 88 | 2758 | 0.6 | 44 | 44 | 0 |
| 14/07/18 13:15:00 | 5BEE | 0.3 | 0 | 3138.0 | 88 | 2658 | 0.6 | 44 | 44 | 0 |
| 14/07/18 13:10:00 | 5BEE | 0.3 | 0 | 3137.0 | 89 | 2799 | 0.6 | 45 | 44 | 0 |
| 14/07/18 13:05:00 | 5BEE | 0.9 | 0 | 3173.0 | 89 | 2829 | 0.6 | 45 | 44 | 0 |
| 14/07/18 13:00:00 | 5BEE | 0.3 | 0 | 3271.0 | 89 | 2752 | 0.6 | 44 | 44 | 0 |
| 14/07/18 12:55:00 | 5BEE | 0.6 | 0 | 3327.0 | 88 | 2763 | 0.6 | 45 | 43 | 0 |
| 14/07/18 12:50:00 | 5BEE | 0.9 | 0 | 3303.0 | 89 | 3070 | 0.7 | 45 | 44 | 0 |
| 14/07/18 12:45:00 | 5BEE | 0.3 | 0 | 3344.0 | 90 | 3050 | 0.6 | 46 | 44 | 0 |
| 14/07/18 12:40:00 | 5BEE | 0.9 | 0 | 3324.0 | 90 | 3106 | 0.7 | 44 | 44 | 0 |
| 14/07/18 12:35:00 | 5BEE | 0.9 | 0 | 3269.0 | 91 | 3100 | 0.7 | 46 | 45 | 0 |
| 14/07/18 12:30:00 | 5BEE | 1.0 | 0 | 2370.0 | 91 | 3084 | 0.7 | 45 | 46 | 0 |
| 14/07/18 12:25:00 | 5BEE | 1.0 | 0 | 2931.0 | 91 | 3095 | 0.7 | 45 | 46 | 0 |
| 14/07/18 12:20:00 | 5BEE | 0.9 | 0 | 3329.0 | 90 | 3066 | 0.7 | 46 | 44 | 0 |
| 14/07/18 12:15:00 | 5BEE | 0.3 | 0 | 3139.0 | 90 | 3031 | 0.7 | 45 | 45 | 0 |
| 14/07/18 12:10:00 | 5BEE | 1.0 | 0 | 3188.0 | 90 | 3103 | 0.7 | 45 | 45 | 0 |
| 14/07/18 12:05:00 | 5BEE | 1.0 | 0 | 2976.0 | 91 | 3041 | 0.7 | 45 | 46 | 0 |
| 14/07/18 12:00:00 | 5BEE | 1.0 | 0 | 3054.0 | 91 | 3133 | 0.7 | 44 | 47 | 0 |
| 14/07/18 11:55:00 | 5BEE | 1.0 | 0 | 3070.0 | 91 | 3070 | 0.7 | 44 | 47 | 0 |
| 14/07/18 11:50:00 | 5BEE | 1.0 | 0 | 3045.0 | 91 | 3032 | 0.7 | 44 | 47 | 0 |
| 14/07/18 11:45:00 | 5BEE | 1.0 | 0 | 3033.0 | 91 | 3005 | 0.7 | 44 | 47 | 0 |
| 14/07/18 11:40:00 | 5BEE | 0.3 | 0 | 3244.0 | 91 | 2925 | 0.6 | 45 | 45 | 0 |
| 14/07/18 11:35:00 | 5BEE | 0.3 | 0 | 3284.0 | 90 | 2913 | 0.6 | 46 | 44 | 0 |
| 14/07/18 11:30:00 | 5BEE | 0.9 | 0 | 3135.0 | 91 | 2986 | 0.6 | 46 | 45 | 0 |
| 14/07/18 11:25:00 | 5BEE | 1.0 | 0 | 3145.0 | 91 | 3002 | 0.7 | 46 | 45 | 0 |
| 14/07/18 11:20:00 | 5BEE | 0.9 | 0 | 3301.0 | 90 | 3087 | 0.7 | 46 | 44 | 0 |
| 14/07/18 11:15:00 | 5BEE | 0.9 | 0 | 3230.0 | 90 | 3052 | 0.7 | 45 | 45 | 0 |
| 14/07/18 11:10:00 | 5BEE | 1.0 | 0 | 3206.0 | 90 | 3063 | 0.7 | 45 | 45 | 0 |
| 14/07/18 11:05:00 | 5BEE | 0.6 | 0 | 3025.0 | 89 | 2273 | 0.5 | 44 | 45 | 0 |
| 14/07/18 11:00:00 | 5BEE | 0.4 | 0 | 2761.0 | 78 | 1094 | 0.1 | 39 | 39 | 0 |
| 14/07/18 10:55:00 | 5BEE | 0.5 | 0 | 3012.0 | 87 | 1357 | 0.2 | 43 | 44 | 0 |
| 14/07/18 10:50:00 | 5BEE | 0.4 | 0 | 3179.0 | 86 | 1283 | 0.2 | 43 | 43 | 0 |
| 14/07/18 10:45:00 | 5BEE | 0.4 | 0 | 3099.0 | 89 | 1377 | 0.2 | 44 | 45 | 0 |
| 14/07/18 10:40:00 | 5BEE | 0.4 | 0 | 3121.0 | 88 | 1388 | 0.2 | 44 | 44 | 0 |
| 14/07/18 10:35:00 | 5BEE | 0.4 | 0 | 3153.0 | 89 | 1369 | 0.2 | 44 | 44 | 0 |
| 14/07/18 10:30:00 | 5BEE | 0.4 | 0 | 3182.0 | 88 | 1427 | 0.2 | 44 | 44 | 0 |
| 14/07/18 10:25:00 | 5BEE | 0.4 | 0 | 3068.0 | 89 | 1348 | 0.1 | 44 | 45 | 0 |
| 14/07/18 10:20:00 | 5BEE | 0.4 | 0 | 3109.0 | 89 | 1379 | 0.2 | 44 | 44 | 0 |
| 14/07/18 10:15:00 | 5BEE | 0.4 | 0 | 1223.0 | 35 | 540 | 0.2 | 17 | 18 | 0 |
| 14/07/18 10:10:00 | 5BEE | 1.5 | 0 | 12.2 | 1 | 19 | 0.0 | 0 | 1 | 0 |

- Lets look at what jobs were using the device then.

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Near Term History: DASD Scenario

- So the two started tasks are using the device already.



Command ==> KMSDDTH

Historical Job Usage Details for Device TDSL13

| Device Number | Response Time | Device Busy Percent | Activity Rate | Active Percent | I/O Intensity | I/O queue time | Pending Percent | Connect Percent | Disconnect Percent | Command response Percent |
|---------------|---------------|---------------------|---------------|----------------|---------------|----------------|-----------------|-----------------|--------------------|--------------------------|
| SBE8 | 1.5 | 0 | 12.2 | 1 | 19 | 0.0 | 0 | 1 | 0 | 0 |

Jobs Using Device TDSL13

| Device Number | Job Name | ASID | Class | Using % | Delay % | Service Class |
|---------------|----------|------|-------|---------|---------|---------------|
| SBE8 | MEDDL102 | 651 | Task | 17 | 11 | ***** |
| SBE8 | MEDDL101 | 599 | Task | 16 | 12 | STC |

Nothing Earlier · Display 10:10 · 10:15 · HISTORY

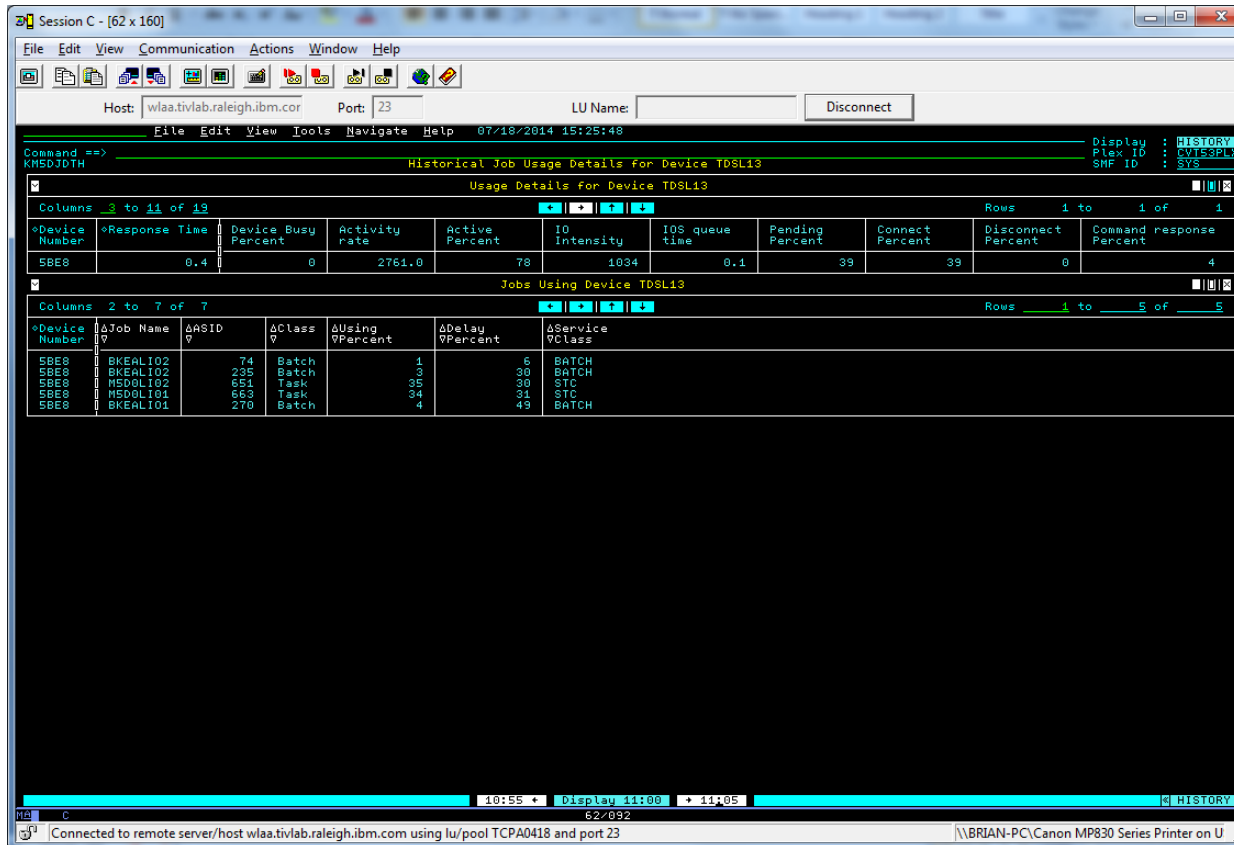
Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23

- Lets move forward in time to see how things progress... (use the forward arrow at screen bottom)

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Near Term History: DASD Scenario

- Around 11am we see the batch jobs starting to use the device as well.



Session C - [62 x 160]

File Edit View Communication Actions Window Help

Host: wlaa.tivlab.raleigh.ibm.com Port: 23 LU Name: Disconnect

07/18/2014 15:25:48

Command ==> KMSDDTH Historical Job Usage Details for Device TDSL13 Display : HISTORY
Plex ID : CUI58PLX
SWF ID : S15

Usage Details for Device TDSL13

| Device Number | Response Time | Device Busy Percent | Activity Rate | Active Percent | I/O Intensity | IOS queue time | Pending Percent | Connect Percent | Disconnect Percent | Command response Percent |
|---------------|---------------|---------------------|---------------|----------------|---------------|----------------|-----------------|-----------------|--------------------|--------------------------|
| SBE8 | 0.4 | 0 | 2761.0 | 78 | 1034 | 0.1 | 39 | 39 | 0 | 4 |

Jobs Using Device TDSL13

| Device Number | Job Name | ASID | Class | Using Percent | Delay Percent | Service Class |
|---------------|----------|------|-------|---------------|---------------|---------------|
| SBE8 | BKEAL102 | 74 | Batch | 1 | 6 | BATCH |
| SBE8 | BKEAL102 | 235 | Batch | 3 | 30 | BATCH |
| SBE8 | MSDOL102 | 651 | Task | 35 | 30 | STC |
| SBE8 | MSDOL101 | 663 | Task | 34 | 31 | STC |
| SBE8 | BKEAL101 | 270 | Batch | 4 | 43 | BATCH |

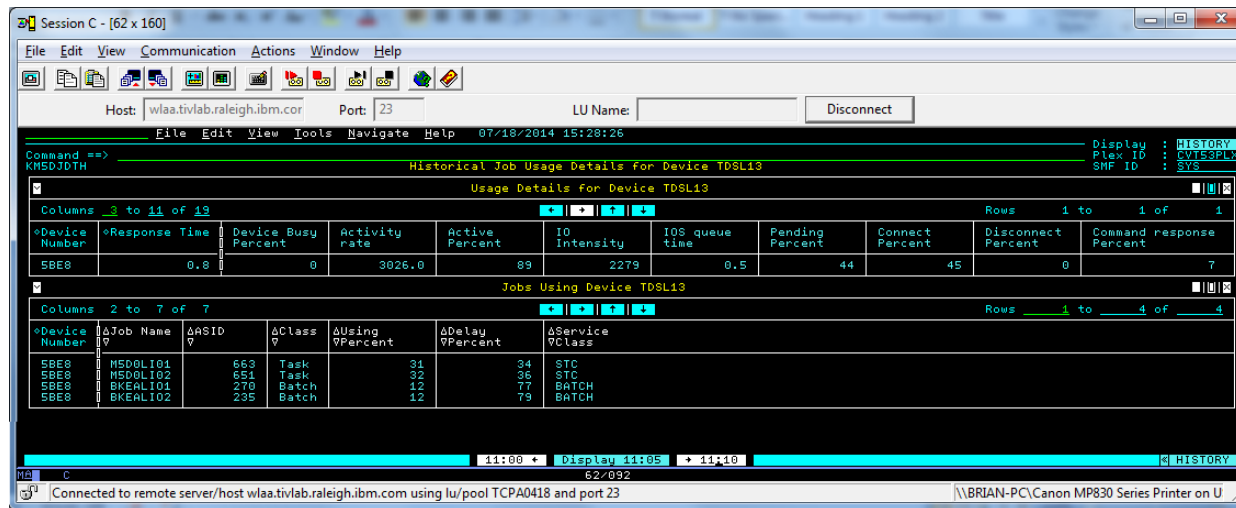
18:55 Display 11:00 11:05 HISTORY

Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23 \\BRIAN-PC\Canon MP830 Series Printer on U

- Another interval forward shows

Near Term History: DASD Scenario

- Now we see that by 11:05 our two batch jobs are being significantly delayed for device use by the started tasks.



Command ==> `KMSDJDTH` Historical Job Usage Details For Device TDSL13

Usage Details for Device TDSL13

| Device Number | Response Time | Device Busy Percent | Activity rate | Active Percent | I/O Intensity | IOS queue time | Pending Percent | Connect Percent | Disconnect Percent | Command response Percent |
|---------------|---------------|---------------------|---------------|----------------|---------------|----------------|-----------------|-----------------|--------------------|--------------------------|
| SBE8 | 0.0 | 0 | 3026.0 | 89 | 2279 | 0.5 | 44 | 45 | 0 | 7 |

Jobs Using Device TDSL13

| Device Number | Job Name | ASID | Class | Using Percent | Delay Percent | Service Class |
|---------------|----------|------|-------|---------------|---------------|---------------|
| SBE8 | MEDOL101 | 663 | Task | 31 | 34 | STC |
| SBE8 | MEDOL102 | 651 | Task | 32 | 36 | STC |
| SBE8 | BKEAL101 | 270 | Batch | 12 | 77 | BATCH |
| SBE8 | BKEAL102 | 235 | Batch | 12 | 79 | BATCH |

11:00 + Display 11:05 + 11:10 HISTORY

Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using lu/pool TCPA0418 and port 23

- We can now tell our batch job user that his jobs are contending for I/O access with two started tasks. The owners of these jobs and tasks should perhaps run at different times or segregate their files so they are not on the same volume.

Welcome JOBGEN/PARMGEN Integration Screen

New PARMGEN Quick Configuration Mode



```
Welcome to the z/OS Installation and Configuration Tools for
IBM Tivoli Management Services (TMS) dependent products
```

```
Option ==> _
```

1. **Checklist:** System preparation checklists
Tip: Read/Print Checklists prior to installation and configuration.

2. SMP/E-install z/OS products with Install Job Generator **(JOBGEN)**

Configure z/OS products with Parameter Generator Workflow **(PARMGEN)**

Select either option 3 or 4.

3. **Quick Configuration:** Streamlined configuration options.

4. **Standard Configuration:** Detailed/Custom configuration options.

5. **About joining the community:** Service Management Connect (SMC)

Maintenance Level: HKCI310 PTF UA73689 (APAR OA45024 3Q14B Interim Feature)

More streamlined welcome panel:

Type new 3 option for the new

streamlined quick configuration and press Enter.





PARMGEN Quick Configuration Mode

for all users, whether you are a new first-time-user (FTU) in PARMGEN or whether you are an experienced subject matter expert!

```

----- PARAMETER GENERATOR (PARMGEN) WORKFLOW - PRIMARY OPTION MENU -----
Option ==> _
                Quick Configuration Mode

GBL_USER_JCL:   TDITNT.COMMON.PARMGEN.JCL
RTE_PLIB_HILEV: TDITN.FTU
RTE_NAME:      LPAR1

Note: Perform steps 1 through 5 in sequence, repeating steps as necessary.
      Enter n (1-5) to perform tasks.
      Enter ns (1s-5s) for detailed job/task status.

-----
Description                               Job/Label  Status      Date
-----
1. Set up PARMGEN work environment for an RTE.  KCIJPCFG
2. Customize PARMGEN configuration profiles.    LPAR1
3. Create the RTE members and jobs.            $PARSE    Enter 3 for details
4. Submit batch jobs to complete PARMGEN setup. SUBMIT     Enter 4 for details
5. Perform post configuration steps.           POSTCFG
R  Reset RTE, Status and Date fields. (Optional) New RTE

Press F1=Help for more information.  Type U or UTIL to access utility menu.

```

Quick Configuration Mode: Just 4 streamlined steps REGARDLESS of "QUICKNEW", "QUICKCLONE", "QUICKCONVERT" mode



Subscribe to PARMGEN FTU APAR OA45024 IF



URL: <http://www.ibm.com/support/docview.wss?uid=swg21417935>

**Master
PARMGEN
Technote**

Enablement Support : (**updated** Date Last Updated: 20140715)

A. Download the latest GA PARMGEN PTFs and let 's get started!

| APAR# | FMID / PTF# | Interim Feature (IF) Release Date |
|---------------------|-----------------------------|-----------------------------------|
| OA43859 | HKCI310/UA72225 | *GA* February 28, 2014 (1Q14A) |
| OA44620 NEW! | HKCI310/UA73688 NEW! | *ETA GA TBD* (3Q14A) NEW! |
| OA45024 NEW! | HKCI310/UA73689 NEW! | *ETA GA TBD* (3Q14B) NEW! |

Details :

NEW! Section: What's New in 1Q14A? *GA* <--- *** Required reading *** (**updated** Date Last Updated: 20140301)

PARMGEN 1Q14A Whats New (HKCI310 PTF UA72225 APAR OA43859) Interim Feature D20140217.zip

updated Section: What Will Be in 3Q14A/3Q14B? <--- (**updated** Date Last Updated: 20140715)

PARMGEN 3Q14B Whats New (HKCI310 PTF UA73689 APAR OA45024) Interim Feature D20140715.zip

Check out the SMC System z community blog



developerWorks > Technical topics >

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- Business Service Management [Products >](#)
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- Data Center Automation [Products >](#)
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Check out regular updates on PARMGEN, enhanced 3270UI TOM, latest OMXE features, best practices, notification on available beta/EAP programs!



Check out the System z blog on PARMGEN FTU



Good news for PARMGEN First-Time-Users (FTU) and PARMGEN SMEs - deploy OMEGAMON management suites even faster using PARMGEN Quick Configuration mode!

Cecile_Day | July 19 | Visits (838) 2 Like

What's New in PARMGEN?

Upcoming PARMGEN APAR OA45024 brings significant improvements to the PARMGEN Workflow interface. The new PARMGEN APAR OA45024 delivers the following enhancements for **all users**, whether you are a **new first-time-user** in PARMGEN or whether you are an **experienced subject matter expert**.

The new PARMGEN enhancements will be generally available with the recently announced **IBM OMEGAMON Performance Management Suite for z/OS V5.3** and **IBM Service Management Suite for z/OS V1.2** solutions.

Here's a preview of what's new in PARMGEN:

- Follow through a **simple, easy-to-navigate documentation** that has an even more **task-oriented organization** in our new **IBM® Knowledge Center**. **Value ->** The new IBM Knowledge Center provides the flexibility for customers to dynamically create a **collection of their favorite product deployment topics** (Planning, Installing, Upgrading, Configuring, Scenarios and How-tos).
- Quickly build new runtime environments (RTEs) from several **IBM-provided best-practice out-of-the-box models**. **Value ->** The new **\$MDL* predefined RTE models** save significant time in setting parameter values for the different product and LPAR RTE configurations.
- Quickly deploy SMP/E maintenance cross-LPAR RTEs **via one job**. **Value ->** The new **PARMGEN "LOADALL" cross-RTE command** provides the flexibility to deploy maintenance quicker across all your LPAR RTEs, or if you prefer, selectively deploy to a subset of your monitored environments, via a **new composite KCIJ@LOD job**.
- Quickly convert your existing ICAT RTEs to PARMGEN mode and upgrade the products faster, with streamlined **PARMGEN deployment jobs**.
- The new PARMGEN support also provides:
 - simple, tailored labels** to make it easier to see which of the **few 12 task-oriented, function-centric composite jobs** are required for submission to complete the RTE set-up.
 - a set of **handy and concise, tailored post configuration README files** that are **catered** to your product

0

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