

CA MICS® Resource Management

Release 14.2 – Sprint Review 2

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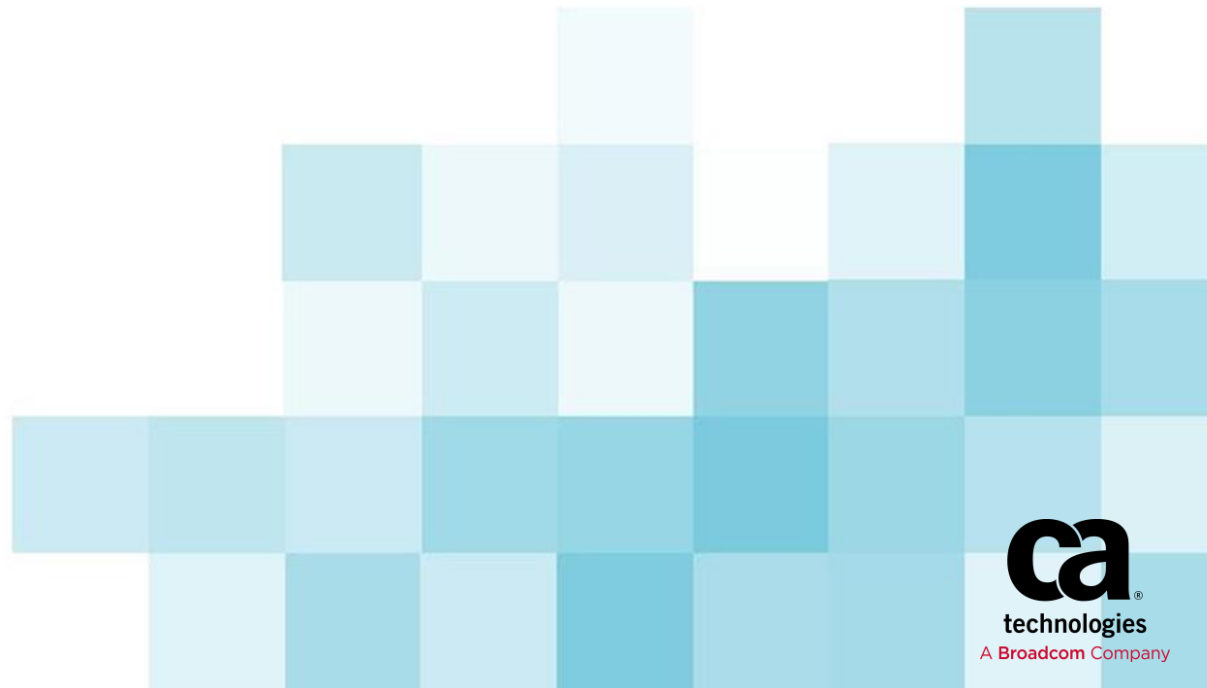
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Agenda

1

STATE OF THE RELEASE - ENHANCEMENTS IN 14.2 (DELIVERED / IN PROGRESS / NEXT RELEASE)

2

SHOWCASE 14.2 ENHANCEMENTS – HIGHLIGHTS AND BUSINESS VALUE INFO

3

SHOWCASE DEMO - NEW ENHANCED WEB REPORTING UI FOR SAS ODS COLOR GRAPHICS/CHARTING

4

UPDATES

5

Q&A

State of the Release

- Enhancements in Release 14.2
(Delivered / In Progress / Next Release)

Progress towards Release 14.2

IDM6617 - ADD DATA ELEMENT JESJOBNO - JES JOB NUMBER
(Published as SO01158)

[Showcased](#)

IMS6706 - Toleration Support for BMC Mainview for IMS v5.3
(Published as SO01618)

RMF7098 - Exploitation Support for the New z14 (HIS) Hardware Instrumentation Counters
(Published as SO04091)

[Showcased](#)

RMF7101 - Improved SMF Type 113 Record Processing, Diagnostics, and Maintenance
(Published as SO04598)

[Showcased](#)

VMC6755 – z/VM 7.1 Toleration Support
(Published as SO05685)

SMF7010 - Add metrics for Job Steps executed and Support for IBM APAR OA53355 for Address Spaces that make use of USER Common Key Storage
(Published as SO06318)

[Showcased](#)

TAP7147 – TS7700 release 4.1.2 & 4.2 Support, and New Compression Metrics
(Published as SO06854)

[Showcased](#)

MQS6686 - Support for MQ v9.1
(Published as SO06941)

RMF7097 and RMF7108 - Support for new or enhanced entities introduced with z/OS 2.3
(Published as SO06614 and SO06894)

[Showcased](#)

VMC6751 - Support for 3390-A EAV DASD Volumes and Maintenance
(Published as SO06057)

DB26909 – New MICF SAS ODS Graphics Inquiries
(Published as SO07222)

RMF7080 - New SAS ODS Inquiries for the RMF z13 & z14 CPCs & Correct display issues for existing RMF ODS Inquiries on the Web UI
(Published as **SO07307**)

[Showcase](#)

DELIVERED

IN PROGRESS

NEXT RELEASE

Progress towards Release 14.2

Support for new SAS maintenance release TS1M5
– 11 PTF's or Components need supporting
(All 11 PTF's Published – **BASE is a HYPER**)

SNT6740 & ACT7307 - IBM Sterling Connect: Direct
Support (formerly (NDM) Network Data Mover)
(Published as **SO07565** and **SO07561**)

Showcased

CIC6840 - Support for CTS 5.5 and TMON 4.2 &
maintenance
(Published as **SO07713**)

Showcased

VCC6740, VCA6760 - z/OS 2.3 Support for VCC & VCA
Pervasive Encryption fields + some minor additions &
maintenance
(Published as **SO08735** and **SO08734**)

Showcase

RMF7111 - z/OS 2.3 Subchannel SET ID Updates
(Published as **SO08944**)

Showcase

RMF7115 - z/OS 2.3 Subchannel Workload Manager
Updates
(Published as **SO08945**)

Showcase

MQS6688 - Enhanced Support for MQ v8.0 & v9.0
Add data elements for the following:
- Channel Initiator Statistics and Accounting
- Page Set Statistics (Published as **SO08943**)

Showcase

IDM6618 - Add CICS UOWID and NETNAME for
transaction activity that originated in CICS and called
IDMS
(Published as **SO08942**)

Showcased

VCA6746 – Inquiry Updates and Corrections to VCAOX1
– VCAOX3
(Published as **SO08946**)

RMF7125 - SCM CF Enhancements and z/OS 2.3 related
to SCM CF
(**Dev Finalizing**)

IMS6715 - Enhanced Support for IMS 14.1 ODBM
Accounting Records
(**In Dev**)

WEB6260 - Support for Websphere Liberty SMF 120:
Subtype 11 – z/OS req logging info on HTTP requests
Subtype 12 – z/OS Java Batch Job SMF Logging Activity
(**In Dev/On Hold awaiting Customer Data**)

DELIVERED

IN PROGRESS

NEXT RELEASE

Showcase Enhancements

- Highlights and Business Value Info

Showcase 1

MQS6688 - Enhanced Support for IBM Websphere MQ v8 & v9

Support is added for the SMF 116 subtype 10 Channel Initiator Accounting record. This record, added with IBM WebSphere v8, provides the ability to monitor channel utilization, peak throughput, and data transfer rates.

```
----- System Identifier=1X01 Queue Manager Name=QIX1 End Time Stamp=06FEB19:16:52:37.79 -----
```

Connection Name	Remote QMGR/APP Name	Channel Active Time	Number of Batches	Number of Full Batches	Transmission Buffers Sent	Transmission Buffers Received	Bytes Sent Count	Bytes Received Count	Avg Net Time	Max Net Time
171.186.5.5	QIX2	0:05:51.27	10	0	34	22	6728	1096	0.001251	0.005617
171.186.5.5	QIX3	0:05:51.27	10	0	23	22	6412	1096	0.000644	0.002119
171.186.5.5	QIX2	0:05:51.27	10	0	22	34	1096	6568	0.000000	0.000000
171.186.5.4	QTZB	0:02:51.97	10	0	16	27	928	6524	0.000000	0.000000
171.186.5.5	QIX3	0:00:00.00	0	0	1	1	36	268	0.000000	0.000000
171.186.5.5	QIX3	0:00:00.00	0	0	1	1	36	268	0.000000	0.000000
171.186.5.5	QIX3	0:00:00.00	0	0	1	1	36	268	0.000000	0.000000
171.186.5.5	QIX2	0:04:59.89	1	0	13	11	1300	548	0.000640	0.000806
171.186.5.5	QIX2	0:04:59.89	1	0	13	11	1496	548	0.009958	0.091242
171.186.5.4	QTZB	0:05:51.27	10	0	79	68	7740	2144	0.000407	0.001378
-----			-----	-----	-----	-----				
0:36:16.84			52	0	203	198				

Showcase 1

MQS6688 - Enhanced Support for IBM Websphere MQ v8 & v9 contd.

Support is added for the SMF 115 subtype 231 Channel Initiator Statistics record. This record, added with IBM WebSphere v8, provides performance information about the channel performance and CPU usage between queue managers.

--- System Identifier=CA31 Queue Manager Name=S31Q CHINIT Task Type=ADP End Time Stamp=04JAN19:15:48:26.67 ----

Task Segment	CHINIT Task Type	Task Request Count	Channel Busy Elapsed Time	Channel Busy CPU Time	Pct Channel Busy	Avg CPU Time per Request	Avg Elapsed Time per Request	Recording Interval Time
0	ADP	3313	1.831498	0.268026	10.2084%	0.000081	0.000553	0:29:54.11
1	ADP	103	1.046026	0.013122	5.83032%	0.000127	0.010156	0:29:54.11
2	ADP	32	0.470474	0.004265	2.62232%	0.000133	0.014702	0:29:54.11
3	ADP	2	0.042432	0.000361	.236509%	0.000181	0.021216	0:29:54.11
4	ADP	0	0.000002	0.000002	.000010%	0.000000	0.000000	0:29:54.11
5	ADP	0	0.000000	0.000000	.000000%	0.000000	0.000000	0:29:54.11
6	ADP	0	0.000000	0.000000	.000000%	0.000000	0.000000	0:29:54.11
7	ADP	0	0.000000	0.000000	.000000%	0.000000	0.000000	0:29:54.11
		----- 3450	----- 3.390432	----- 0.285776				

Showcase 1

MQS6688 - Enhanced Support for IBM Websphere MQ v8 & v9 contd.

Support is added for the SMF 115 subtype 201 Pageset I/O Statistics record. This record, introduced in IBM WebSphere v9, provides page set configuration and utilization metrics useful for monitoring performance and capacity.

----- System Identifier=CA11 Queue Manager Name=MQA1 End Time Stamp=04JAN19:07:54:20.19 -----

Page Set ID	Buffer Pool Number	Total Pages	Current Unused Pages	Pct Free Pages	Total Page Set I/O Requests	Pages Written in Checkpoint	Pages Not Written in Checkpoint	Avg Pages per I/O
0	0	1078	1022	94.81 %	5	54	1	11.00
1	0	1078	1022	94.81 %	2	8	1	4.50
2	1	20517	20502	99.93 %	3	5	1	2.33
3	2	1078	1075	99.72 %	2	2	1	1.50
		-----	-----		-----	-----	-----	
		23751	23621		12	69	4	

Showcase 2

RMF7111 - Device Subchannel Set ID Updates

- Beginning with z/OS V1R7 IBM introduced multiple subchannel sets
 - Why? Parallel Access Volume (PAV) alias device definitions
 - With PAV a single DASD often uses up 4 subchannels (DEVNUMs)
- Multiple subchannel sets defined within a logical channel subsystem (LCSS)
- With the zEC12, IBM added an additional subchannel set 2
- The z13 and z14 support four subchannel sets– 0, 1, 2, and 3
- Relieves constraint on number of devices accessible by an LPAR
 - Subchannel Set 0 – 63.75K device definitions (256 subchannels reserved)
 - Subchannel Sets 1 -3 provide 64K additional device definitions each

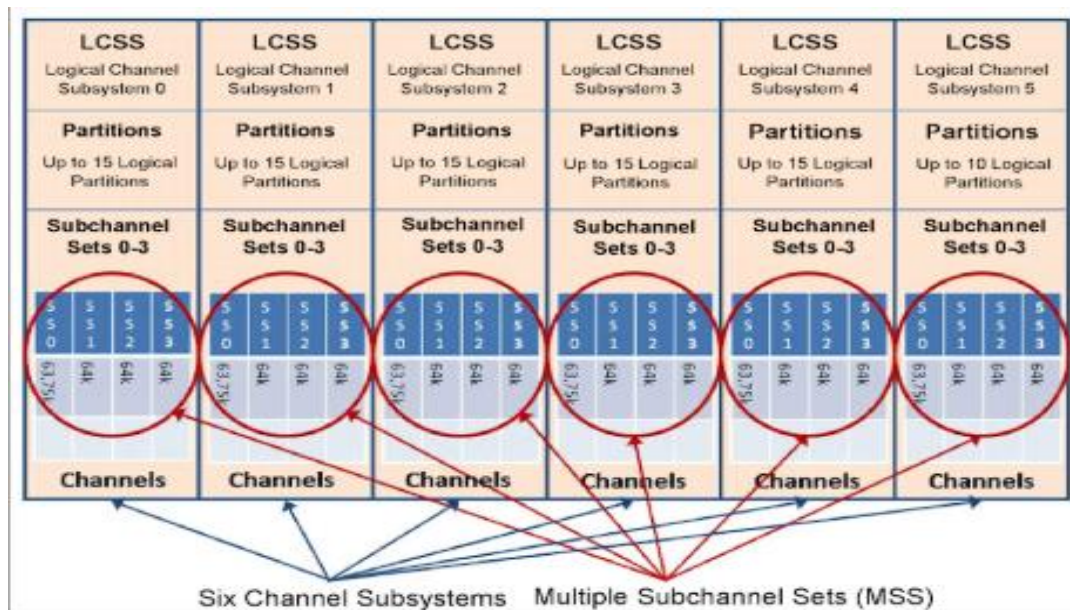


Figure from IBM Redbook - z13 Configuration Setup (SG24-8260-00)

Showcase 2

RMF7111 - Device Subchannel Set ID Updates

- IBM instrumentation of Subchannel Set ID in SMF records was ... tardy
- With z/OS 2.1, IBM added to 74-1 Device Activity record:
 - Former 2 byte reserved field:

180	B4	1	Reserved.
181	B5 SMF74SCS	1	binary Subchannel set ID.

- In response, MICS Product Change RMF7010 (r12.9 level set, 2014) added the following data element to the HARDVA – Device Activity File:

DVASCSID – Device Subchannel Set ID

Problem: The field location (181 bytes into the 74-1 Device Activity Section)

Logic in MICS 74-1 read-up routine pauses after reading a few bytes into this section.

The device number (DEVNUM) has been read, and some flag fields with device status.

If the device was OFFLINE, or was reconfigured during the interval, the remainder of device activity metrics are not read-up.

Therefore, DVASCSID has a missing value (.) for offline or reconfigured devices.

- With RMF7010, DVASCSID was simply a retained data element. The importance of Subchannel Set ID was not recognized.

Showcase 2

RMF7111 - Device Subchannel Set ID Updates

- With z/OS 2.3, IBM provided Subchannel Set ID in many SMF records:
 - SMF Type 74 Subtype 5 Cache Subsystem Device Activity
 - MICS HARCVA - Cache Volume Activity File
 - MICS HARRRA - RAID Rank Activity File
 - SMF Type 74 subtype 8 – Enterprise Disk System Statistics
 - MICS HARELS - ESS Link Statistics File
 - MICS HARXPS - ESS Extent Pool Statistics File
 - MICS HARERS - ESS Rank Statistics File
 - SMF type 75 subtype 1 – Page Data Set Activity
 - MICS SCPPSD - Page Data Set Activity File
 - SMF type 79 subtype 6 – Reserve Data
 - MICS HARRSV - Hardware Reserve Activity File
- IBM Post Processor Reports Updated:

Subchannel Set ID: 0

Device Number: 2209

DIRECT ACCESS DEVICE ACTIVITY														
z/OS V2R3					SYSTEM ID SYSF		DATE 09/28/2017		TIME 06.00.00		INTER		CYCLE	
					RPT VERSION V2R3 RMF									
TOTAL SAMPLES = 900					IODF = 00		CR-DATE: 09/14/2017		CR-TIME: 10.31.31		ACT: POR			
STORAGE	DEV	DEVICE	NUMBER	VOLUME	PAV	LCU	ACTIVITY	RESP	IOSQ	CMR	DB	INT	PEND	DISC
GROUP	NUM	TYPE	OF CYL	SERIAL			RATE	TIME	TIME	DLY	DLY	DLY	TIME	TIME
XTEST	02208	33903	3339	TRXSX9	1	0032	0.001	.384	.000	.128	.000	.123	.256	.000
XTEST	02209	33903	3339	TRXSXA	1	0032	0.001	.256	.000	.000	.000	.135	.256	.000

Showcase 2

RMF7111 - Device Subchannel Set ID Updates

- RMF7111 Updates:
 - Introduces new RMF Component Common Data Element:
SCSID – Device Subchannel Set ID
 - Replaces DVASCSID in HARDVA file (retrofits existing HARDVA file cycles)
 - Added to HARCVA, HARELS, HARERS, HARXPS, HARRRA, HARRSV, SCPPDS files
 - Fixes HARDVA “missing value” issue for OFFLINE/reconfigured devices
 - SCSID always read-up (supersedes RMF7104 PTF)
 - Files with DEVNUM (Device Number) as summarization key:
 - HARDVA – Device Activity and HARCVA – Cache Volume Activity
 - SCSID is added as an additional summarization key
 - This prevents same DEVNUM from being summarized together in DAYS and higher timespan HARDVA observations
 - (HARCVA already separated due to CUDEVNUM in sum keys)
Base and alias device addresses on a single control unit must be unique
- MICF RMF Post Processor inquiry reports updated
 - Where DEVNUM was historically printed with 4 HEX characters...
 - Now 5 HEX characters, where 1st character is the SCSID value

Showcase 2

RMF7111 - Device Subchannel Set ID Updates

- RMF7111 Product Change Text **Appendix B**
 - For sites that do use SCSID 1, 2, or 3 ...
 - ... and use same DEVNUM across multiple SCSIDs
 - Instructions are provided to determine space impact on DAYS HARDVA file
 - Utility job is provided: RMF7111X

RMF7111X analyzes a DETAIL HARDVA file cycle and reports:

- Percent increase in each DAYS HARDVA file cycle observation count
- Number of DAYS HARDVA file cycles

Appendix B explains how to use the MWF Space Utilization utility to determine the number of cylinders of space used by each DAYS HARDVA file cycle

With the information from RMF7111X and the Space Utilization report, a formula is provided that computes how many additional cylinders you will use in your DAYS timespan after RMF7111 is applied.

Tot extra CYLs = Percent * avg HARDVA CYLs * HARDVA DAYS cycles

- Proactively determine if you need to allocate more space to DAYS timespan to prevent a B37 “out-of-space” ABEND sometime in the future!

Showcase 3

RMF7115 - z/OS 2.3 Workload Manager Updates

- WLM CategoryA and CategoryB Support, APAR OA48466
- WLM zIIP Containment and Memory Capping, APAR OA50760
- Updates to MICF RMFLPM - Workload Manager Goal Mode Report

Showcase 3

RMF7115 - z/OS 2.3 Workload Manager Updates

- WLM CategoryA and CategoryB Support, APAR OA48466

With IBM APAR OA48466, IBM delivered RMF support to provide metrics that captured utilization of three different workload categories:

- Mobile Workloads
- CategoryA Workloads (for future use)
- CategoryB Workloads (for future use)

MICS support for metrics providing utilization of workloads originating from mobile devices was provided by MICS product change RMF7072, delivered with MICS Release 14.1.

With z/OS 2.3, IBM has updated the IBM post processor Workload Activity report to include information about CategoryA and CategoryB utilization.

Showcase 3

RMF7115 - z/OS 2.3 Workload Manager Updates

- WLM zIIP Containment and Memory Capping, APAR OA50760
With IBM APAR OA50760, IBM delivered RMF support for two new Workload Manager features:

- Honor Priority by Service Class

W O R K L O A D A C T I V I T Y

PAGE 9

z/OS V2R3 SYSPLEX PLEXC1 DATE 12/09/2018 INTERVAL 15.00.054 MODE = GOAL
CONVERTED TO z/OS V2R3 RMF TIME 23.59.00

POLICY ACTIVATION DATE/TIME 11/03/2018 11.38.20

POLICY=PLEXT1 WORKLOAD=DATABASE SERVICE CLASS=DATABPRD **RESOURCE GROUP=*NONE** PERIOD=1 IMPORTANCE=2
CRITICAL =NONE **HONOR PRIORITY=NO**

-TRANSACTIONS--	TRANS-TIME	HHH.MM.SS.FFFFFFF	TRANS-APPL%	----	CP-IIPCP/AAPCP-IIP/AAP	---	ENCLAVES---
AVG	3.00	ACTUAL	3.733446	TOTAL	0.04	0.00	1.91
						AVG ENC	0.00

Showcase 3

RMF7115 - z/OS 2.3 Workload Manager Updates

- Resource Group Memory Capping

W O R K L O A D A C T I V I T Y											
z/OS V2R3		SYSPLEX UTCPLXHD		DATE 09/28/2017		INTERVAL 14.59.999		MODE = GOAL		PAGE 9	
		RPT VERSION V2R3 RMF		TIME 10.59.33							
POLICY ACTIVATION DATE/TIME 09/14/2017 10.54.07											
- SERVICE POLICY PAGE -											
SERVICE DEFINITION: SYSTES2						-SERVICE DEFINITION COEFFICIENTS-			-NORM FACTORS-		
INSTALL DATE: 10/17/2015 14.25.59 INSTALLED BY: SETUP						IOC	CPU	SRB	MSO	AAP	IIP
POLICY: STANDARD Standard policy											
DISCRETIONARY GOAL MANAGEMENT: YES						5.0	10.0	10.0	0.0001	1.0000	1.0000
DYNAMIC ALIAS MANAGEMENT: YES											
I/O PRIORITY MANAGEMENT: YES											
SYSTEMS											
---	ID---	OPT	SU/SEC	CAP%	--TIME--	INTERVAL	---	ID---	OPT	SU/SEC	CAP%
SYSD		00	79602.0	100	10.59.33	00.14.59	SYSE		00	79602.0	100
RESOURCE GROUPS											
--NAME--	-----DESCRIPTION-----				-SYSTEM-	---CPU CONSUMPTION---			-----CPU CAPACITY-----		----
						#CPS	MSU	SU/SEC	MIN	MAX	DEFINED AS
BATCHVEL	Velocity and resptime batch work					0.63	71	50K	0	1000K	SU/SEC
					SYSD	0.01	1	472			
					SYSE	0.62	70	49K			
	-----SERVICE CLASSES					0.00	0	69			
				HOTBAT		0.62	70	49K			
				PRDBAT		0.01	1	783			
				TSTBAT							
REGTSO	Non-priority TSO work					0.23	27	19K*	3.33		NUMBER OF CPs
					SYSE	0.23	27	19K			
	-----SERVICE CLASSES					0.23	27	19K			
				HOTTSO							
TRGCLOUD	Tenant Resource Group for Cloud					0.87	101	71K	500		MSU
					SYSD	0.29	34	24K			
					SYSE	0.58	67	47K			
	-----REPORT CLASSES					0.36	42	29K			
				CLOUD001		0.51	59	42K			
				CLOUD002							

Showcase 3

RMF7115 - z/OS 2.3 Workload Manager Updates

- Updates to MICF RMFLPM - Workload Manager Goal Mode Report

With z/OS 2.3, IBM updated the layout and content of the IBM Post Processor Workload Activity report.

Updates are made to the following report sections, which can be individually selected using the "Extended Options" panel of the RMFLPM inquiry:

- Policy Summary (POLICY)
- Workload Group (WGROUP)
- Service Class (SCLASS)
- Service Class Period (SCPER)
- Report Class (RCLASS)
- Report Class Period (RCPER)

z/OS V2R2

SYSPLEX SVPLEX3
RPT VERSION V2R2 RMFDATE 09/28/2016
TIME 17.00.00

INTERVAL 15.00.003 MODE = GOAL

POLICY ACTIVATION DATE/TIME 09/14/2016 11.08.09

----- SERVICE CLASS(ES)

REPORT BY: POLICY=BASEPOL WORKLOAD=STC_WLD SERVICE CLASS=STCLOW RESOURCE GROUP=*NONE
CRITICAL =NONE
DESCRIPTION =Low priority for STC workloads

-TRANSACTIONS- TRANS-TIME HHH.MM.SS.TTT
AVG 153.37 ACTUAL 3.02.885
MPL 152.35 EXECUTION 3.02.391
ENDED 599 QUEUED 494
END/S 0.67 R/S AFFIN 0
#SWAPS 3391 INELIGIBLE 0
EXCTD 0 CONVERSION 5.188
STD DEV 3.27.429

AVG ENC 0.00
REM ENC 0.00
MS ENC 0.00

-DASD I/O-
SSCHRT 56.9
RESP 15.2
CONN 1.3
DISC 0.3
Q+PEND 4.5
IOSQ 9.0

---SERVICE--- SERVICE TIME
IOC 3964 CPU 805.697 CP 92.24 BLK 1.489
CPU 15184K SRB 13.850 AAPCP 0.00 ENQ 0.046
MSO 0 RCT 9.995 IIPCP 0.00 CRM 5.593
SRB 261005 IIT 0.576 LCK 0.000
TOT 15449K HST 0.000 AAP 0.00 SUP 0.000
/SEC 17202 AAP 0.000 IIP 0.00
IIP 0.000

ABSRPTN 113
TRX SERV 112

---STORAGE---
AVG 1195.43
TOTAL 182122.4
SHARED 230.59
PAGE-IN RATES-
SINGLE 0.0
BLOCK 0.0
SHARED 0.0
HSP 0.0

X TRANSACTION APPL% : TOTAL : CP 92.24 AAP/IIP ON CP 0.00 AAP/IIP 0.00
MOBILE : CP 0.00 AAP/IIP ON CP 0.00 AAP/IIP 0.00<

W O R K L O A D A C T I V I T Y

PAGE 1

z/OS V2R3

SYSPLEX SVPLEX3
RPT VERSION V2R3 RMFDATE 09/28/2017
TIME 07.45.00

INTERVAL 15.00.024 MODE = GOAL

POLICY ACTIVATION DATE/TIME 09/14/2017 09.00.11

----- SERVICE CLASS(ES)

POLICY=BASEPOL WORKLOAD=STC_WLD SERVICE CLASS=STCLOW RESOURCE GROUP=*NONE
CRITICAL =NONE
DESCRIPTION =Low priority for STC workloads

-TRANSACTIONS-- TRANS-TIME HHH.MM.SS.FFFFFF
AVG 47.81 ACTUAL 11.04.438476
MPL 47.81 EXECUTION 11.04.119152
ENDED 58 QUEUED 319323
END/S 0.06 R/S AFFIN 0
#SWAPS 1021 INELIGIBLE 0
EXCTD 0 CONVERSION 451972

TRANS-APPL%----CP-IIPCP/AAPCP-IIP/AAP
TOTAL 33.18 0.00 0.00
MOBILE 0.00 0.00 0.00
CATEGORYA 0.00 0.00 0.00
CATEGORYB 0.00 0.00 0.00

---ENCLAVES---
AVG ENC 0.00
REM ENC 0.00
MS ENC 0.00

---SERVICE--- SERVICE TIME
IOC 23295 CPU 297.914 CP 33.19 BLK 0.000
CPU 18693K SRB 0.674 IIPCP 0.00 ENQ 0.000
MSO 0 RCT 0.109 IIP 0.00 CRM 0.000
SRB 42318 IIT 0.038 AAPCP 0.00 LCK 2017546
TOT 18758K HST 0.000 AAP N/A SUP 0.000
/SEC 20842 IIP 0.000
ABSRPTN 436 AAP N/A
TRX SERV 436

-DASD I/O-
SSCHRT 20.9
RESP 0.3
CONN 0.2
DISC 0.0
Q+PEND 0.0
IOSQ 0.1

---STORAGE--- PAGE-IN RATES
AVG 15986.53 SINGLE 0.0
TOTAL 764260.0 BLOCK 0.0
SHARED 0.00 SHARED 0.0
HSP 0.0

Showcase 4

VCA6760, VCC6740 - Support for Pervasive Encryption

A flag is added to VCA files indicating that the dataset is encrypted:

VCADAA - Data Set Allocation File

VCA_VS - VSAM Data Set Allocation File

VCAVOA - Volume Allocation File

HSBBAC - Backup Data File

HSMMIG - Migrated Data File

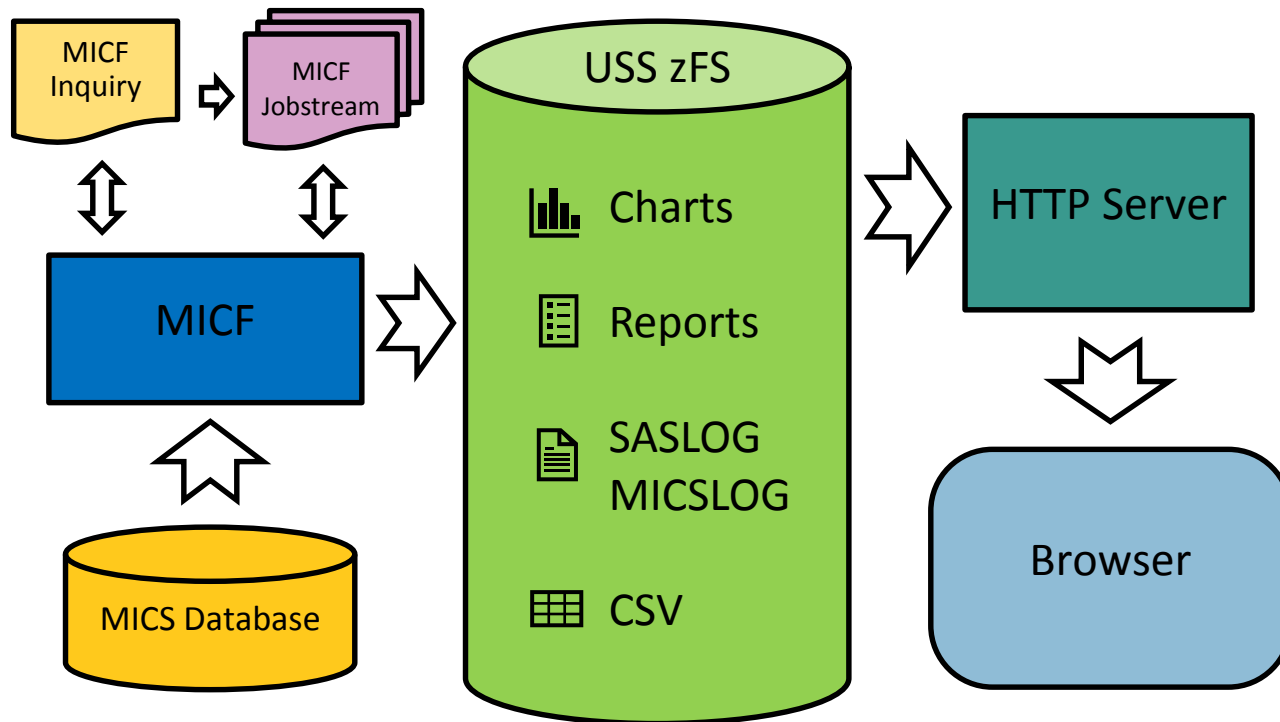
The information is coming from MICS Space Collector. It also reads key label for SMS datasets.

Showcase Demo

- New Enhanced Web Reporting UI for SAS ODS
Color Graphics/Charting

Showcase 5

New Enhanced Web Reporting UI for SAS ODS Color Graphics/Charting



Showcase 5

New WEB UI and Color Graphics/Charting

Current Catalog of ODS Inquiries by Component are as follows:

Available with 7 MICS Components: VMC, IDMS, DB2, MQS, VCA, CICS, RMF

VMC

VMCOD1 - VM System Daily Top 10 CPU Users

VMCOX1 - VM CPC Daily Physical Channel Utilization

IDMS

IDMOD1 - IDMS Daily Top Ten Programs Executed

IDMOD2 - IDMS Daily Transaction Type Analysis

DB2

DB2OD0 - DB2 Daily Thread Count by Connection Type

DB2OD1 - DB2 Daily Buffer Pool Hit Percent on Type

DB2OD2 - DB2 Daily Top Ten Plans by Thread Count(DSP)

DB2OD3 - DB2 Daily Top Ten Plans by Thread Count(DSU)

Showcase 5

New WEB UI and Color Graphics/Charting

Current Catalog of ODS Inquiries by Component are as follows:

MQS

MQSOD1 - MQ Daily Buffer Pool Analysis

MQSOD2 - MQ Daily Coupling Facility Structure Use

MQSOD3 - MQ Daily DB2 Shared Queue Analysis

MQSOD4 - MQ Daily Manager Analysis

MQSOD5 - MQ Daily Log Manager Analysis

MQSOD6 - MQ Daily Message Manager Analysis

MQSOD7 - MQ Top 10 Daily Queues

MQSOD8 - MQ Daily Task Suspend Call Analysis

VCA

VCAOX1 - Top 20 CI Splits by DS Type

VCAOX2 - Daily top 20 STORCLAS Space Used

VCAOX3 - Volume Capacity and Use

Showcase 5

New WEB UI and Color Graphics/Charting

Current Catalog of ODS Inquiries by Component are as follows:

CICS

Performance

CICOD0 - Daily CICS Trans Count and Response Pct

CICOD2 - Daily CICS Top 10 Transactions

CICOM0 - Monthly CICS Tran Count and Response Pct

CICOM2 - Monthly CICS Top 10 Transactions

Workload

CICOD1 - Daily CICS Top 10 Workloads

CICOM1 - Monthly CICS Top 10 Workloads

Showcase 5

New WEB UI and Color Graphics/Charting

Current Catalog of ODS Inquiries by Component are as follows:

RMF

RMF Mainframe CPC Configuration

RMFOD0 - CPC LPAR Engine Configuration

RMFOD2 - CPC LPAR Storage Allocation

RMFOD3 - CPC LPAR Relative Weight by Engine Pool

RMF Mainframe CPC Engine Utilization

RMFODD - CPC and LPAR Daily Shared CP Engine Dispatch by Hour

RMFODE - CPC Shared Engine Pools Percent Dispatch High Hours

RMFODF - CPC and LPAR Daily Shared ICF Engine Dispatch by Hour

RMFODG - CPC and LPAR Daily Shared IFL Engine Dispatch by Hour

RMFODI - CPC and LPAR Daily Shared zIIP Engine Dispatch by Hour

Showcase 5

New WEB UI and Color Graphics/Charting

Current Catalog of ODS Inquiries by Component are as follows:

RMF contd.

RMF Mainframe CPC Memory Use and Paging

RMFODJ - z/OS Central Storage Daily Frame Use by SYSID

RMFODK - z/OS System Daily Paging Analysis

RMF Mainframe CPC Specialty Engine Focus

RMFODN - Daily zIIP Engine Use and Demand by CPC and SYSID

RMFODO - Daily zIIP Engine Use and Demand by Service Class

RMF Mainframe MSU Utilization and LPAR Capping

RMFOD4 - Daily z/OS LPAR MSU Use Cap and 4 Hour Avg

RMFOD5 - Daily LPAR MSU Use and Capacity Limits

RMFOD6 - Daily CPC MSU Use with Stacked LPARs

RMFOM0 - Monthly LPAR MSU Use and Capacity Limits

Showcase 5

New WEB UI and Color Graphics/Charting

Current Catalog of ODS Inquiries by Component are as follows:

RMF contd.

WLM Service Class and Report Class Analysis

RMFODP - z/OS Report Class Analysis by SYSPLEX, CPCID, and SYSID

RMFODQ - z/OS Daily Top 10 Service Classes by SYSPLEX

RMFODR - z/OS Service Class Analysis by SYSPLEX, CPCID, and SYSID

Hardware Instrumentation Services CPU Measurement Facility

RMFODA - CPU MF Workload Characterization IPU Level

RMFODB - CPU MF Workload Characterization LPAR Level

RMFODC - CPU MF Workload Characterization CPUTYPE Level

RMFOD7 - CPU MF Cryptographic Coprocessor Activity IPU Level

RMFOD8 - CPU MF Cryptographic Coprocessor Activity LPAR Level

RMFOD9 - CPU MF Cryptographic Coprocessor Activity CPUTYPE Level

Showcase 5

New WEB UI and Color Graphics/Charting

Resources for the New WEB UI and SAS ODS Graph Output

SAS ODS Graph Output – Docops Section/Help

- <https://docops.ca.com/ca-mics-resource-management/14-1/en/using/mics-information-center-facility-micf/using-micf/micf-tutorial/sas-ods-graphical-output>

WEB UI

- MICS Academy on Docops– 5 Training/Walk-through videos (approx. 7 mins each)
 - Videos 1-3 cover pre-install, installation and configuration
 - Videos 4/5 cover setup/execution of inquiries and operating Web UI and view output
 - <https://docops.ca.com/ca-mics-resource-management/14-1/en/additional-resources/ca-mics-academy/enhanced-web-publishing-videos-free>

Showcase 5

New WEB UI and Color Graphics/Charting

Requirements for the New WEB UI and ODS

- BAS7825 (MICS 14.1 Release PTF)
 - BAS7832 – fixes and enhancements (MICS 14.2 Release PTF)
- z/OS IBM HTTP server
- SAS 9.4 – Only BASE SAS required (SAS/GRAPH not required)
- Available space in a zFS directory
- <https://docops.ca.com/ca-mics-resource-management/14-1/en/using/mics-information-center-facility-micf/micf-reference/micf-administration/tasks-performed-during-installation/production-reporting/micf-web-publishing>

Updates

- MICS 14.2 Release GA will be GA by end of June
- Design Thinking Workshop – 2.5 Days - August 20th – 22nd
- Roadmap for MICS 14.3
 - Preliminary Planning Stages
 - z/OS 2.4 and zNEXT Machine are high priorities
 - z/OSMF exploration

Q&A



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