

What's new in IBM Z OMEGAMON AI for CICS

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CICS Virtual User's Group – May 20, 2025, 11:30AM EST



Agenda

Introduction to IBM Z OMEGAMON for CICS

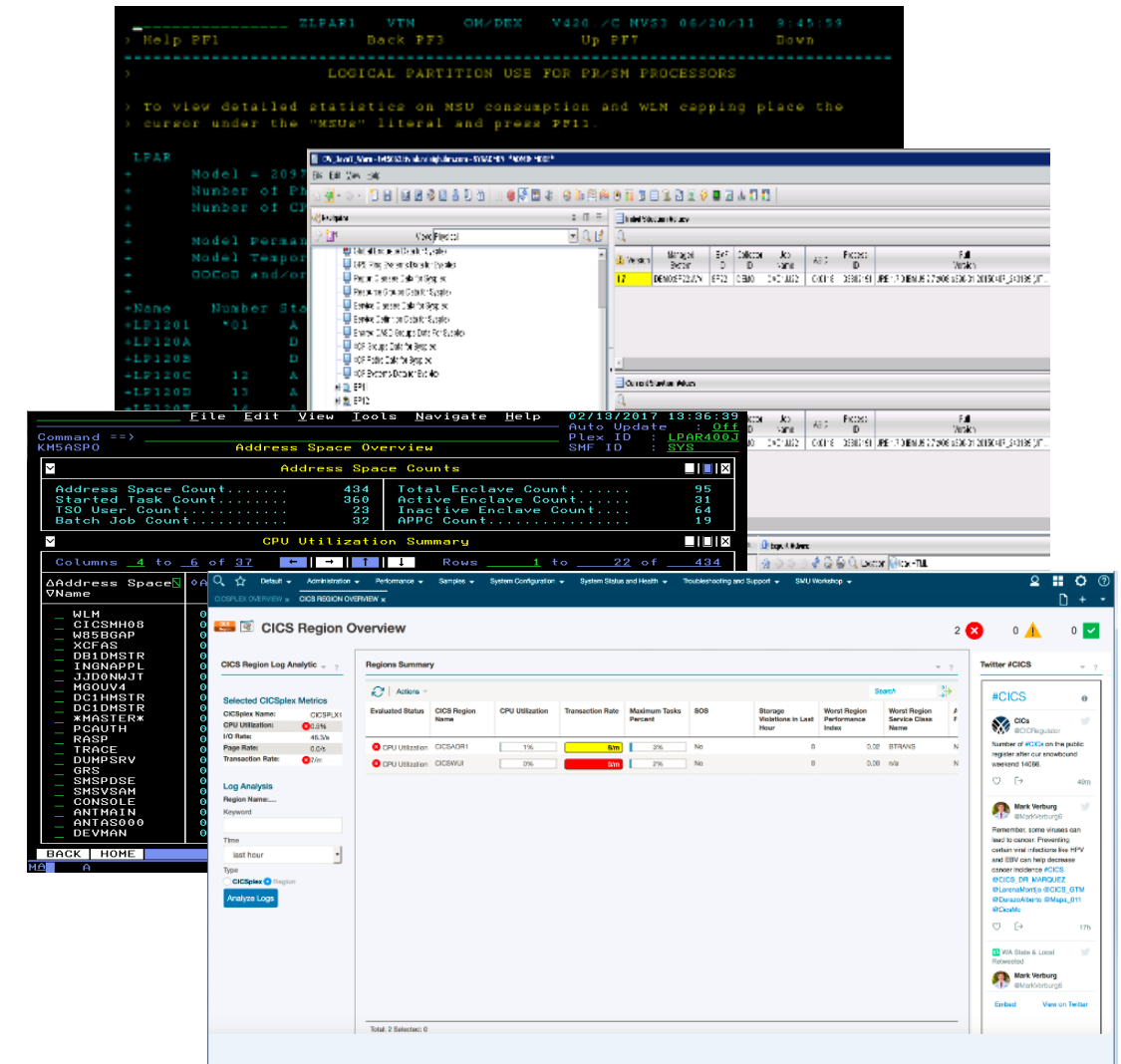
High-level description of new features at each release and FixPack

Deep dive on the following features:

- Program Tracking Support
- Resource Limiting resolution increase
- Corelating CICS Tasks and DB2 Threads
- Hiding Background tasks
- CP/SM System Group Support
- IBM Z OMEGAMON AI Insights 2.1 support
- Extended Task History support for VSAM datasets
- Bookmarking of selected workspaces
- Previous task and original task data
- New display for task time values
- Current Average Response Time for CICS Regions and CICSplexes
- Improved Context command allowing greater navigation
- Viewing summary of Transaction Waits

IBM Z OMEGAMON AI for CICS Overview

- OMEGAMON for CICS has been around since early 1980s:
 - We still call it the “Classic” UI, but it has evolved continuously since then.
- Some of the updates added over the years:
 - CICSplex wide data viewing and summarization
 - Real-time and Historical Data Collection and Reporting
 - Application Trace Facility
 - Bottleneck Analysis
 - Resource Limiting
 - Proactive Alerting
 - Task History collection
 - New CICS metrics and statistics
 - CICS TG support
 - Updated User Interfaces
 - Integration with other OMEGAMONs and other tooling
- Commitment has been to deliver Day One support for latest levels of CICS (including supporting open beta clients)
- **Version (V5.6) released in June 2022**
- **Version (V6.1) released in November 2024**



New Features in V5.6.0

Base IBM Z OMEGAMON for CICS 5.6.0, June 2022

- **Program Tracking Support:** Ability to track program usage by transaction and region.
- **Resource limiting** resolution for CPU has been increased, to allow transaction limits to be set in millisecond increments. This lets you take action much sooner, to prevent tasks from impacting the region.
- **Finding resources within a group of regions** is now much more intuitive. The new FIND command menu provides a drop-down list of resources to search for, together with related help for each resource type. FIND is now extended to CICS temporary storage and transient data queues.
- **New CICS policy statistics** are available. For customers using policies within CICS to take actions on applications, IBM Z OMEGAMON for CICS will now show statistics relating to the use of those policies.
- **CICS Transaction Gateway Memory statistics** are now available. This allows users to monitor their CICS Transaction Gateway Daemon for problems related to memory usage.

New Features in V5.6.0

FixPack 1, October 2022

- **Correlating CICS tasks and Db2 threads:** The CICS Task History Detail panel now lets you correlate CICS task history with Db2 thread history. You can navigate directly between the CICS Task History Detail panel and the Db2 Thread History Detail panel in IBM OMEGAMON for Db2 Performance Expert.
- **The FIND command:** Updated to support Logo ID, BUNDLES TS / TD Queues and Ports, also added wildcard support.

FixPack 2, February 2023

- **Background Tasks:** The ability to designate the background and do not need to appear in the workspaces used for routine monitoring.
- **CP/SM CICS System Groups:** OMEGAMON will now import any CP/SM CICS system groups which are configured.
- **TRUE Monitoring:** You can now monitor activity generated by Task Related User Exits.
- **FINDing the TCP/IP Service Port:** You can now search across a CICSplex or group of regions for Port used by a region's TCP/IP service.

New Features in V5.6.0

FixPack 3, December 22, 2023

New Resource Types for Resource Limiting

Three new Resource Types are available for Resource Limiting. These give you new options for which transactions you want to include and exclude from Resource Limiting:

- **RUNTIME:** This is for held tasks due to MXT or Class maximum, where you do not wish to include the time held in the resource limit. The task will be allowed to run for the time specified.
- **CPUGP:** This limits the task time on a general processor. It excludes time where the task was using CPU on a specialty processor.
- **CPUQR:** This is the time spent on the QR TCB. It excludes time on a specialty processor or an Open TCB. With only one QR TCB, it can be important that tasks not spend too much time occupying it.

CICSplex transaction rate displayable per second or per minute

CICS API Requester application monitoring via zCEE

New values for task displays provides the CPU on General Purpose, specialty, and CPU eligible for specialty

FIND for Temporary Storage models

New Features in V6.1.0

Base IBM Z OMEGAMON AI for CICS 6.1.0, November 2024

- **Support for IBM Z OMEGAMON AI Insights 2.1:** IBM Z OMEGAMON AI for CICS integrates with IBM Z OMEGAMON AI Insights, a diagnostic tool that helps deliver actionable data, analyses, and alerts, enabling real-time monitoring and helps you proactively manage performance on your site's CICS environments.
- **Task History support for Extended VSAM datasets (>4 GB):** Task History now supports Extended Linear datasets, allowing the maximum size to exceed 4 GB. The maximum size now supported is 16 TB.
- **Bookmarking of selected workspaces** allows you to navigate quickly to frequently used workspaces. You can save the bookmarks for use on subsequent logons.
- **Reduced CPU footprint:** OMEGAMON AI for CICS now has zIIP-enabled Task History collection and data retrieval processing, and SLA data collection. Also, there is significant code-path reduction when building the monitoring data.
- **RLIM command simultaneously across multiple regions:** Dynamic changes are often made in large number of CICS regions to limit resources or exclude transactions and requires spending considerable amount of time. The **MULTI Region** option is now available for you to process each request type by setting the value as Yes for a select group of CICS regions.

New Features in V6.1.0

Base IBM Z OMEGAMON AI for CICS 6.1.0, November 2024

- **Previous task and original task data:** OMEGAMON Task and Task history displays will now show data related to the original task in the CICS environment as well as the prior task or prior hop, if they are not the current task.
- **New display for task time values:** Task time values are shown in a new display where the task timings are separated into **WAIT** times, that contribute to task delays, and **ACTIVE** times which accumulate while the task is dispatched.
- **Program tracking contains the total Getmains by a program:** Program Tracking now collects data related to all the Getmains requests for a program in the USER storage below or above the 16 MB line.
- **Task History can be paused:** You can now pause and resume Task History collection, allowing display of previously collected Task History.
- **Umbrella summary display for Task History:** The Umbrella summary display provides information related to the Umbrella data values for a task.
- **Standard started message:** Each OMEGAMON started task now displays a single WTO message that can be used for automation and appears in the JESMSG LG/JESYSMSG.

New Features in V6.1.0

FixPack 1, March 2025

- **Current Average Response Time for CICS Regions and CICSplexes:** The new feature enhancement, Average Response Time column in the CICS Region Summary and All Active CICSplexes workspace shows the average response time calculated for the transactions which have been recently completed allowing more rapid detection of changes.
- **Improved Context command allowing greater navigation:** Context command selection is now available on the **All Active CICSplexes** screen using the C Context Selection option. A new workspace lists the context to select from the available CICSplex, LPAR, USERGRP, and CSYSGRP types.
- **Viewing summary of Transaction Waits:** In the Region Task Summary workspace, a new Transaction Waits tab is added to view the details of the wait types/reasons for transactions.
- **Viewing full value for long SIT parameters:** You can view SIT parameters values for the available CICS Resources using the L CICS System Initialization option.
- **OMEGAMON CICS Global options information:** In the CICS Control Functions panel, a new option G CICS Global Options is added to view the details of various global options such as Global Name with dataset, Resource Limiting, Application Trace, Online Data Viewing, and several other CICS Global options.
- **Enabling OMEGAMON in a CP/SM CMAS region:** OMEGAMON can now be initialized in a CP/SM CMAS region to monitor tasks, collect near-term history, and trace details.

OMEGAMON Version and Fix Pack level

File Edit View Tools Navigate Help 05/15/2025 16:46:28

Command ==> KOBSCICS*

Events z/OS CICS IMS DB2 MQ M

Columns 2 to 12 of 20

ΔCICSplex vName	ΔNumber of vRegions	ΔTransaction vRate	ΔAverage vResponse
CCVPLEXH	4	0.0/s	0.00
FUWPLEX	8	0.0/s	0.00
RS01	2	0.0/s	0.00
RS02	2	0.1/s	0.00000s
WUIPLEX	1	0.0/s	0.00000s

1. C Commands
2. P PFKeys
3. I Icons and PID*
4. N Navigation
5. U Auto Update
6. R Refresh
7. S Screen Test
8. H Help Contents
9. D Dev Reference
10. A About OMEGAMON
11. W Whats New

Auto Update : Off
Plex ID :
Sys ID :

cts

ICSplexes

ΔSOS vRegion	ΔWorst vPerformance Index	ΔWorst Service vClass Name	ΔEnqueue vWaits	ΔCurrent vBuffer Waits	ΔCur vStr
n/a	0.00%	n/a	0	0	0
n/a	0.00%	n/a	0	0	0
n/a	0.00%	n/a	0	0	0
n/a	0.00%	n/a	0	0	0
n/a	0.00%	n/a	0	0	0

File Edit View Tools Navigate Help 05/15/2025 16:47:40

Command ==> KOBSCICS*

Events

Columns 2

ΔCICSplex
vName

CCVPLEXH
FUWPLEX
RS01
RS02
WUIPLEX

KOBABOUT

IBM OMEGAMON

e3270UI Version : V750
e3270UI Level : 2024-12-10 (AA66898)
User ID : TS5162
VTAM Applid : IS010BAP
Jobname : ISOMTOM
LPAR ID : RS01
Operating System : z/OS 03.01.00 (GMT:-04:00)
Sysplex : RSPLEX03
TCP/IP Host : RS01
TCP/IP Address : 192.168.54.130
Dashboard Edition : Enabled

Product Suite

CICS.... V6.1.0.0100	DB2.... V5.5.0.1600	CICS/TG. V6.1.0.0100
ITM/Z... V1.2.0.0000	IMS.... V5.5.0.1100	Java.... V6.1.0.0300
MQ..... V7.5.0.0900	z/OS... V6.1.0.0600	Netview. V6.3.0.0000
Networks V6.1.0.0400	Int/Bus. V7.5.0.0900	Qry/Mon. V3.3.0.0000
Storage. V6.1.0.0002	ITCAM/WS V7.2.0.0013	

Auto Update : Off
Plex ID :
Sys ID :

exes

S gion	ΔWorst vPerformance Index	ΔWorst Service vClass Name	ΔEnqueue vWaits	ΔCurrent vBuffer Waits	ΔCur vStr
a	0.00%	n/a	0	0	0
a	0.00%	n/a	0	0	0
a	0.00%	n/a	0	0	0
a	0.00%	n/a	0	0	0

OMEGAMON for CICS V5.6 (Base Release)

Program tracking

- Program Tracking is a new feature which allows users to see all the programs that have run for a task.
- For a program to be tracked it must be either invoked by CICS as a result of an EXEC CICS command or application TRUE request or be called directly and issue an EXEC CICS call.
- We will only determine it is a new program via the call if the EXEC CICS request is issued from a different load module.
- This feature is **NOT** enabled by default. It can be controlled dynamically via the TOM.
- It can be defined in the global.

Program tracking – Task Level

If program tracking is enabled and data has been collected for the task the programs tab will appear.

On an active task the program in control will update upon a refresh.

Command ==> KCPTASHP

CICSplex : SB3
Region : CICD5401

Task History Detail

Details Statistics Storage Timings **Programs** Related

Transaction Program Details

Columns 2 to 9 of 9

Rows 1 to 5 of 5

ΔProgram ▽Name	ΔInvoked ▽Count	ΔCPU ▽Time	ΔElapsed ▽Time	ΔDispatch ▽Time	ΔCPU Time ▽on QR TCB	ΔNumber of ▽EXEC calls	ΔNumber ▽of Abends	ΔNumber of ▽Mode Switches
— DFHEMTP	1	.000078s	.000078s	.000078s	.000078s	9	0	0
— DFHEMTD	3	.000917s	27.7294s	.001251s	.000917s	39	0	0
— DFHD2CC	3	.000254s	.000647s	.000647s	.000254s	15	0	0
— DFHD2STP	2	.000822s	.005187s	.004323s	.000497s	7	0	2
— DFHD2STR	1	.002437s	.006962s	.006484s	.001425s	4	0	2

Program tracking – Task Level

- The order of the data when first selected is the order in which they occurred for the task.
- It does not show which program called which. That information cannot be inferred from this data.
- The metrics are collected for the duration that the program is the current program for the task. If program A links to B then the clock stops with A and starts on B. When it returns the clock stops on B and resumes on A. The values for B are not included in the values for A.
- If the task generates a CICS performance record, the current data is included in that and then reset; collection continues for inclusion in the subsequent CICS performance record.

Program tracking – Used Programs

If program tracking is enabled there is the option to aggregate at the region level. This is not enabled by default.

If enabled the Used programs tab will provide information about programs which have run.

Command ==> KCPPRGS

Auto Update : Off
CICSplex : SB3
Region : CICD5401

Program Summary

Installed Used

Programs which have been used on CICD5401

Columns 2 to 10 of 15

Rows 1 to 11 of 34

ΔProgram ▽Name	ΔInvoked ▽Count	ΔTransaction ▽Count	ΔTotal ▽CPU Time	ΔAverage ▽CPU Time	ΔTotal ▽Elapsed Time	ΔAverage ▽Elapsed Time	ΔTotal ▽Dispatch Time	ΔAverage ▽Dispatch Time	ΔTotal ▽on QR
DB2TPGMG	7	7	.004516s	.000645s	27.8117s	3.97310s	.014768s	.002110s	.000
DB2TPGM1	4	4	.004056s	.001014s	.011865s	.002966s	.011671s	.002918s	.000
DB2TPGM2	1	1	.000341s	.000341s	.000381s	.000382s	.000365s	.000366s	.000
DB2TPGX2	2	2	.003299s	.001650s	.024506s	.012253s	.008112s	.004056s	.000
DFHACP	4	4	.000243s	.000061s	.001223s	.000306s	.001215s	.000304s	.000
DFHAMP	374	1	.002492s	.000007s	.008269s	.000022s	.004016s	.000011s	.002

Program tracking – Used Programs

- The used programs are updated when the performance data is written for a task. It will not update for an active task.
- The data is reset when CICS resets statistics for program manager domain.
- The average values are calculated based upon the invocation count. That is the number of times a program was entered.

Program tracking – Used Programs

History and situations will only return data for programs which have any data in that period. The data recorded is the change in the data during the period.

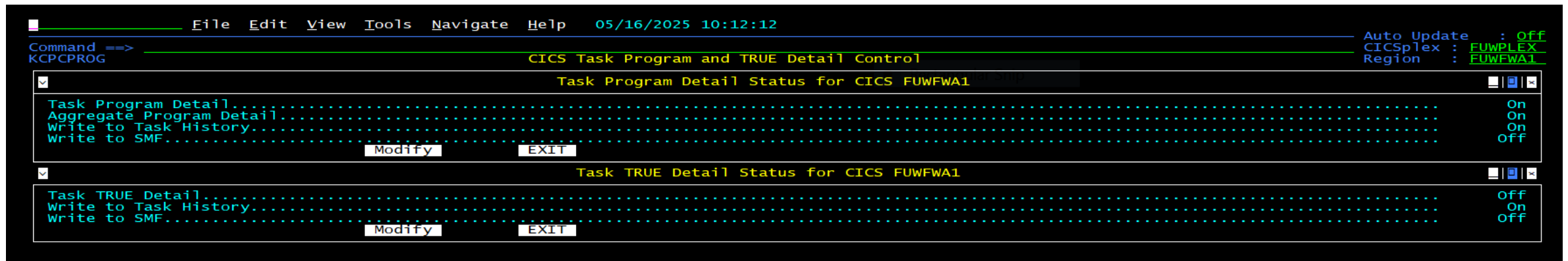
You may see gaps where a program was not used for an interval.

File Edit View Tools Navigate Help 06/10/2022 12:35:37									
Command ==> KCPPRGH								Display : HISTORY	
Historical Summary								CICSplex : SB3	
								Region : CICD5401	
Selected item DFHEMTD									
Columns 3 to 10 of 16									
Rows 1 to 3 of 3									
Recording Time	Program Name	Invoked Count	Transaction Count	Total CPU Time	Average CPU Time	Total Elapsed Time	Average Elapsed Time	Total Dispatch Time	+Average Dispatch T
11:50:00	DFHEMTD	3	1	.000917s	.000306s	27.7294s	9.24316s	.001251s	.000417s
11:46:00	DFHEMTD	3	3	.001411s	.000471s	2m 23s	47.8730s	.001990s	.000663s
11:38:00	DFHEMTD	1	1	.000123s	.000124s	12.6119s	12.6119s	.000141s	.000142s

Program tracking – Enablement

Program tracking is not automatically enabled. To enable Program tracking you can either modify the KC2GLBL member to add it permanently or dynamically switch it on and off.

```
<PROGRAM_TRACKING>  
ENABLE=AUTO  
AGGREGATE=AUTO  
WRITE_TO_HISTORY=YES  
SMF=NO
```



To navigate here, select any CICSplex from the CICSplex overview screen. From the CICSplex Region summary screen enter "C" for CICS control functions, then a "T" for CICS Task Program/TRUE Detail Control.

Resource Limiting CPU granularity

Resource limiting for CPU can now be specified in milliseconds.

It does not have to be.

```
0444 *
0445 <<CPU>>
0446 INCLUDED_TRANS=(ATR*)
0447 WARN_LIMIT=1
0448 KILL_LIMIT=2
0449 *
0450 <<CPU>>
0451 INCLUDED_TRANS=(S*,P*)
0452 WARN_LIMIT=0.025
0453 KILL_LIMIT=0.050
0454 *
```

Command => KCPR LIM CICS Resource Limiting Information CICSplex : SBS Region : CICD5401

Resource Limiting Status.. Active Disable

Resource . . CPU ▼

☒ Resource Limiting Excluded Transids for resource type CPU □ □ □

☒ Resource Limiting details for resource type CPU □ □ □

Columns 1 to 3 of 3 ◀ ▶ ⬆ ⬇ Rows 1 to 2 of 2

Transaction ID	Warn Limit(seconds)	Kill Limit(seconds)
* A*	n/a 1.000	100.000 1.250

OMEGAMON for CICS 5.6 FP1 enhancements

DB2 in CICS Task History

- OMEGAMON CICS can now show information relating to the Db2 thread in CICS Task History. If a task used Db2 and both OMEGAMONS are installed.
- This feature allows linking between OMEGAMON CICS task History and OMEGAMON Db2 Thread History Detail accounting.
- OMEGAMON CICS must be version 5.6.0 with PTF UJ09225 installed. OMEGAMON Db2 must be at version 5.5.0. with UI83049 installed.
- The CICS DB2CONN or DB2ENTRY must be using ACCOUNTREC or UOW or TASK for this feature to work.

Correlating CICS Tasks and DB2 Threads

The “**I/O**” tab shows Db2 related information for that task:

SQL counts

Transaction I/O Waits			
TC I/O Wait Time.....	2.02517s	Transient Data I/O Wait.....	0.00000s
File I/O Wait Time.....	0.00000s	JC I/O Wait Time.....	0.00000s
TC I/O Wait Time.....	2.02517s	MRO Wait Time.....	0.00000s
LU 6.1 Terminal I/O Wait.....	0.00000s	LU 6.2 Terminal I/O Wait.....	0.00000s
RMI Suspend Time.....	0.00000s	RLS File I/O Wait.....	0.00000s
Shared TS I/O Wait Time.....	0.00000s	Socket I/O Wait Time.....	0.00000s
SOCKET Outbound Wait.....	0.00000s	SOCKET receive wait.....	0.00000s
DB2 Connection Wait Time.....	0.00000s	DB2 Readyg Wait Time.....	0.00000s
DB2 Wait Time.....	n/a	IMS Wait Time.....	0.00000s

Task DB2 Statistics			
Open cursors.....	0	Open cursor time.....	0.00000s
Close cursors.....	0	Close cursor time.....	0.00000s
Fetches.....	0	Fetch time.....	0.00000s
Selects.....	1	Select time.....	1m 25s
Inserts.....	0	Insert time.....	0.00000s
Updates.....	0	Update time.....	0.00000s
Deletes.....	0	Delete time.....	0.00000s
Prepares.....	0	Prepare time.....	0.00000s
Describes.....	0	Describe time.....	0.00000s
Executes.....	0	Execute time.....	0.00000s
Exec immediates.....	1	Exec immediate time.....	0.00000s
Miscellaneous calls.....	1	Miscellaneous call time.....	.000560s
Total requests.....	2	Elapsed time.....	1m 25s
DB2Entry Name.....	CICSDemo	DB2Plan Name.....	CICSDemo
DB2Tran Name.....	DB2DBMO		

DB2 Times			
Plan Name.....	CICSDemo	Connection ID.....	CICS00
Correlation ID.....	POOLDBMO	Auth ID.....	TS3665
Elapsed Time.....	1m 25s	In-DB2 Elapsed.....	1m 25s
Total Class 3 Time.....	.000264s	Total Class 3 Events.....	1

Elapsed and Delay Times from Db2 Accounting

Double click on highlighted fields navigates to Db2 Thread History
– either “Accounting” or “Class 3” (Delay) tab

Analyzing historical Information

Db2 Thread History confirms that most of the time was spent in Db2:

Command ==> KDPHACCT		DB2 Thread History Detail Accounting		Display : HISTORY
				SMF ID : RS01
				DB2 ID : IA1A
Acct Class3 BP GBP Glok Lwat				
Thread Information				
Time:Start=2023-05-30 06.05.51.702998 End=2023-05-30 06.07.16.761062				
Plan Name.....		CICSDEMO	Connection ID..... CICS00	
Correlation ID.....		POOLDBMO	Auth ID..... TS3665	
Connection Type.....		CICS	DB2 Subsystem..... IA1A	
MVS System ID.....		RS01	Logical Unit of work ID..... IA1A.IA1	
Commits.....		1	Aborts..... 0	
Parallel Agents.....		0	Autonomous Count..... 0	
CICS Connection Name.....		CICS00	CICS Transaction..... DBMO	
CICS Accounting Token.....		ROCKNET1	CICS Transaction Number..... 0001	
Parallel Tasks/Autonomous Count.....		0	Term Status..... DEALLOC	
CICS Task History Detail				
Transaction ID.....		DBMO	CICS Region Name..... CICS00	
Task Number.....		00821	CPU Time..... 51.2721S	
Response Time.....		1m 25s	User ID..... TS3665	
Program ID.....		CICSDEMO	Storage HWM..... 3008	
End Time.....		06:07:16	Start Time..... 06:05:49	
End Date.....		05/30/23	Start Date..... 05/30/23	
File Requests.....		2	ABEND Code.....	
Class 1/2 Times				
Elapsed Time.....		1m 25s	In-DB2 Elapsed..... 1m 25s	
Non Nested Class 1.....		1m 25s	In-DB2 Non-Nested Class 2/3..... 1m 25s	
Stored Proc Class 1.....		0.00000s	In-DB2 SP Class 2/3..... 0.00000s	
SE CPU Class 1.....		0.00000s	In-DB2 SE CPU Class 2..... 0.00000s	
UDF Class 1.....		0.00000s	In-DB2 UDF Class 2/3..... 0.00000s	
Triggers Class 1.....		0.00000s	CPU Time..... 51.2713s	
In-DB2 CPU Time.....		51.2712s	Agent Class 1..... 51.2712s	
In-DB2 Agent CPU Time Class 2.....		51.2712s	Agent Non-Nested Class 1..... 51.2712s	
In-DB2 Non-Nested CPU Time Class 2.....		51.2712s	SP CPU Class 1..... 0.00000s	
In-DB2 SP CPU Time Class 2.....		0.00000s	UDF CPU Class 1..... 0.00000s	
In-DB2 UDF CPU Time Class 2.....		0.00000s	Trigger CPU Class 1..... 0.00000s	
Parallel Tasks CPU Class 1.....		0.00000s	In-DB2 Parallel CPU Time Class 2..... 0.00000s	
In-DB2 Wait Time Class 2.....		33.7866s	In-DB2 Suspend Time Class 2..... 0.00000s	
In-DB2 Suspend Time Agent Class 2.....		0.00000s	In-DB2 Suspend Time Parallel Class 2..... 0.00000s	
In-DB2 Not Accounted Class 2.....		33.7866s	Elapsed Outside DB2 Class 2..... 0.000142s	
CP CPU Outside DB2 Class 2.....		0.00000s	Non-Nested Outside DB2 Class 2..... 0.00000s	
SDI Elapsed Time.....		N/A	SDI CPU Time..... N/A	
SDI CPU zIIP Time.....		N/A	SDI Events..... N/A	
Max WF Blks.....		0	Curr WF Blks..... 0	
Profile ID.....		0	Profile Type..... N/A	
ACCEL Elig ETime.....		0.00000s	ACCEL Elig CPU..... 0.00000s	
ACCEL Elig SE CPU.....		0.00000s		

CICS metrics (from OMEGAMON CICS)

Db2 metrics (from OMEGAMON Db2)

OMEGAMON for CICS 5.6 FP2 enhancements

Background task identification

- Most CICS environments have transactions which run on a permanent basis. These may be MQ listener tasks, Pipeline listener task, or OMEGAMON tasks. These tasks are rarely of concern when looking at problems.
- OMEGAMON has added the capability (via the CICS control functions) to define tasks which will not be listed in the Tasks display or FIND ACTIVE displays.

File

Edit

View

Tools

Navigate

Help

02/09/2023

14:15:55

Command ==>

KCPBGTSK

CICS Background Tasks Summary

CICSplex : TESTPLXL

Region :

CICS Background Tasks

Columns 1 to 3 of 3

←

→

↑

↓

Rows 1 to 2 of 2

<div>ΔCICSplex</div> <div>▽Name</div>	<div>ΔCICS</div> <div>▽Name</div>	<div>ΔTransaction</div> <div>▽List</div>
<div>— PROD*</div> <div>— TESTPLXL</div>	<div>CICL*</div> <div>*</div>	<div>OSRC,OSRV,CKTI,CPIH</div> <div>OSEC,OSRV</div>

Background task identification

The background task list is checked when returning task data. The default behavior for the task displays is to not display tasks included in the list.

Enter Filter or press PF4 on those workspaces and you can see the filter is active. This can be removed to see all the tasks.

Filter(s)

1. CICS Region Name.....

2. Transaction ID.....

3. CPU Time.....

4. Elapsed Time.....

5. Resource Type.....

6. Resource Name.....

7. Program ID.....

8. Terminal ID.....

9. User ID.....

10. CICS Transaction ID.....

11. Background Task.....

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

<> Y

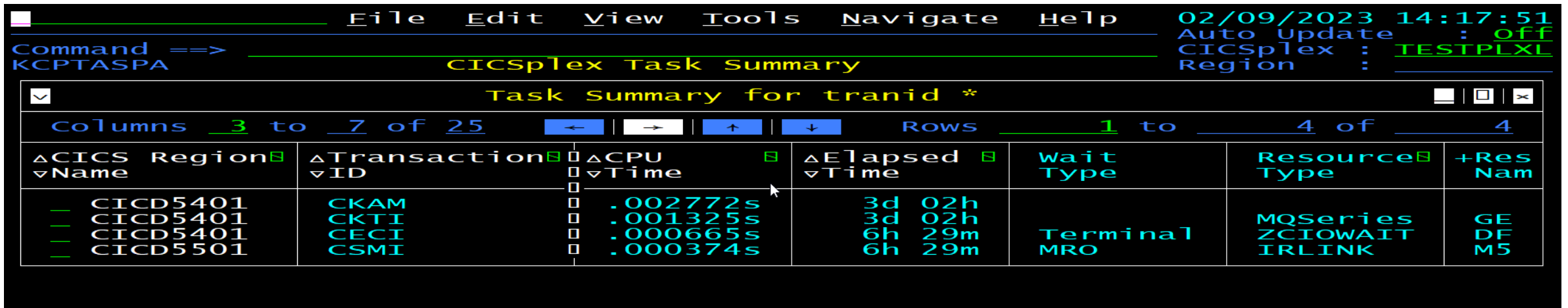
Clear All Filters

OK

Save

Background task identification

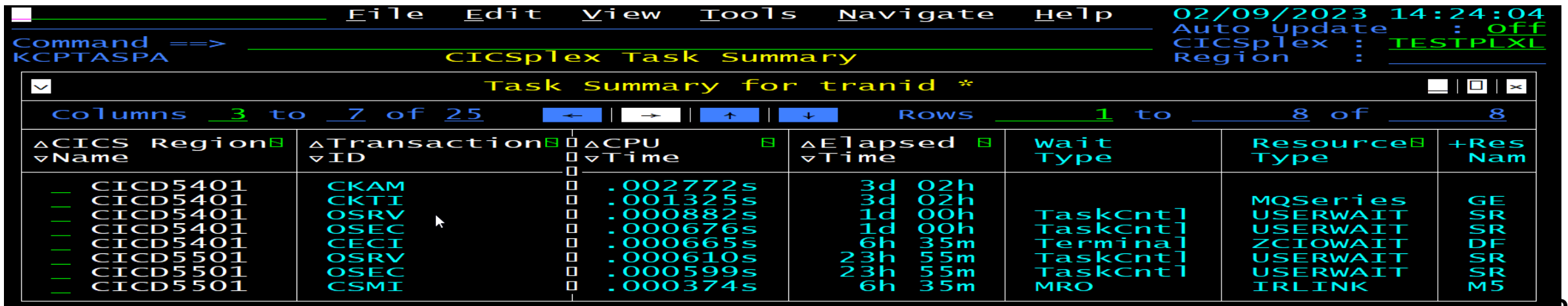
Using the command **FIND ACT *** will return all active tasks for the context in use.



The screenshot shows the CICSplex Task Summary window with the command **FIND ACT *** entered. The window title is "Task Summary for tranid *". The table displays 4 rows of task information, filtered by the command. The columns are: ΔCICS Region Name, ΔTransaction ID, ΔCPU Time, ΔElapsed Time, Wait Type, Resource Type, and +Res Nam.

ΔCICS Region Name	ΔTransaction ID	ΔCPU Time	ΔElapsed Time	Wait Type	Resource Type	+Res Nam
CICD5401	CKAM	.002772s	3d 02h			
CICD5401	CKTI	.001325s	3d 02h			
CICD5401	CECI	.000665s	6h 29m	Terminal	MQSeries	GE
CICD5501	CSMI	.000374s	6h 29m	MRO	ZCLOWAIT	DF

Removing the filter shows the tasks again.



The screenshot shows the CICSplex Task Summary window with the command **FIND ACT *** entered. The window title is "Task Summary for tranid *". The table displays 8 rows of task information, showing all active tasks. The columns are: ΔCICS Region Name, ΔTransaction ID, ΔCPU Time, ΔElapsed Time, Wait Type, Resource Type, and +Res Nam.

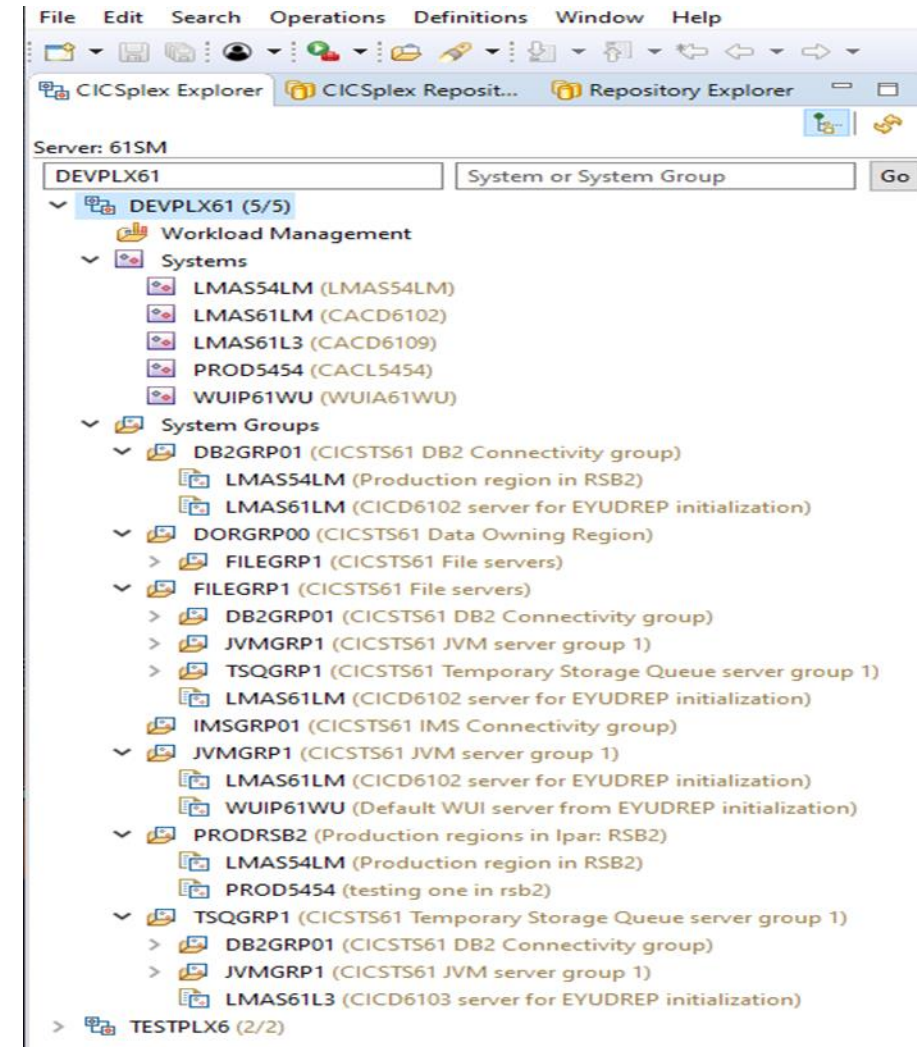
ΔCICS Region Name	ΔTransaction ID	ΔCPU Time	ΔElapsed Time	Wait Type	Resource Type	+Res Nam
CICD5401	CKAM	.002772s	3d 02h			
CICD5401	CKTI	.001325s	3d 02h			
CICD5401	OSRV	.000882s	1d 00h	TaskCnt1	MQSeries	SR
CICD5401	OSEC	.000676s	1d 00h	TaskCnt1	USERWAIT	SR
CICD5401	CECI	.000665s	6h 35m	Terminal	ZCLOWAIT	DF
CICD5501	OSRV	.000610s	23h 55m	TaskCnt1	USERWAIT	SR
CICD5501	OSEC	.000599s	23h 55m	TaskCnt1	USERWAIT	SR
CICD5501	CSMI	.000374s	6h 35m	MRO	IRLINK	M5

Importing of CP/SM system groups

A common feature in CP/SM is the ability to define CICS regions into CICS system groups.

Unlike a CICSplex, a CICS region can be in multiple groups.

Groups can also contain other groups.

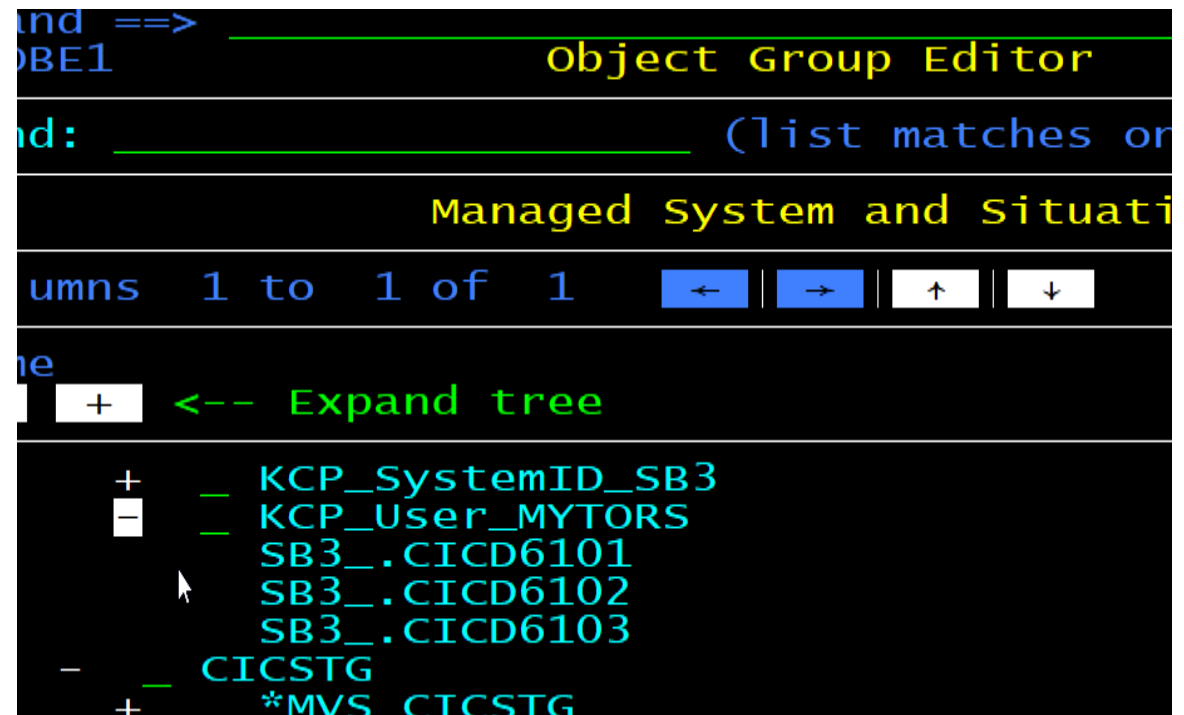


Importing of CP/SM user groups

OMEGAMON CICS also has a groups feature which works in connection with the **CONTEXT** and **FIND** commands. Users can define groups of regions by building a Managed Systems List (MSL) either in the TOM or TEP.

The name of the MSL must be in the format **KCP_User_GRPNAME**
Where GRPNAME is upper case.

These groups can then be used in **CONTEXT** to see the selected regions and **FIND** to search those regions.



Importing of CP/SM system groups

The **GROUPS** command can be entered once a CICSplex is selected

Command ==> KCPCUGRP OMEGAMON CICS Groups Auto Update : off
CICSplex : TESTPLXL
Region :

☒ Manage User Groups Columns 1 to 1 of 1 Rows 1 to 4 of 4

◊User Group - + <-- Collapse tree

- MYTORS
 - SB3_.CICD6101
 - SB3_.CICD6102
 - SB3_.CICD6103

☒ View CP/SM CICS System Groups Columns 1 to 1 of 1 Rows 1 to 10 of 10

◊CP/SM Group - + <-- Expand tree

- DEVPLX61
 - + DB2GRP01
 - + DORGRP00
 - FILEGRP1
 - SB3_.CICD6102
 - SB3_.CICD6103
 - + JVMGRP1
 - + TSQGRP1
- TESTPLEX
 - + HEXSTUFF

Refresh CICS System Groups

Importing of CP/SM system groups

- In the previous **groups** display the top panel will show any OMEGAMON defined groups. If none exist an option to create one will be displayed. Here you enter the group name, and it will take you to a panel to select regions with the MSL name formatted correctly.
- The second panel will show any CP/SM CICS **system groups** which have been detected. When a region, which the CICSplex name comes from CP/SM, is started, the product will attempt to read the CICS system groups and regions which are active.
- OMEGAMON will then place them in an MSL named `KCP_CSYS_CICSPLEX_GRPNAME`. As this is done only when the region starts, If the groups are changed, you may wish to refresh the data from CPSM. In this case you can click the button at the bottom of the workspace.

Using the CONTEXT Command with groups

The **CONTEXT** command is used to select a grouping of regions

This could be one of:

- A CICSplex
- An LPAR
- A User Group

Now this is extended to allow a CICS system group. When this is used, the CICSplex and the group must be selected from the dropdown boxes

The GROUPS command can also be accessed from the push button on the screen.

Command ==> KCPCTEXT

CONTEXT Command Usage

Plex ID :
Sys ID :

For help using this workspace please hit F1.

Select CONTEXT type:

☐ CICSplex ☐ LPAR ☐ USERGRP ☒ CSYSGRP

Select SCOPE:

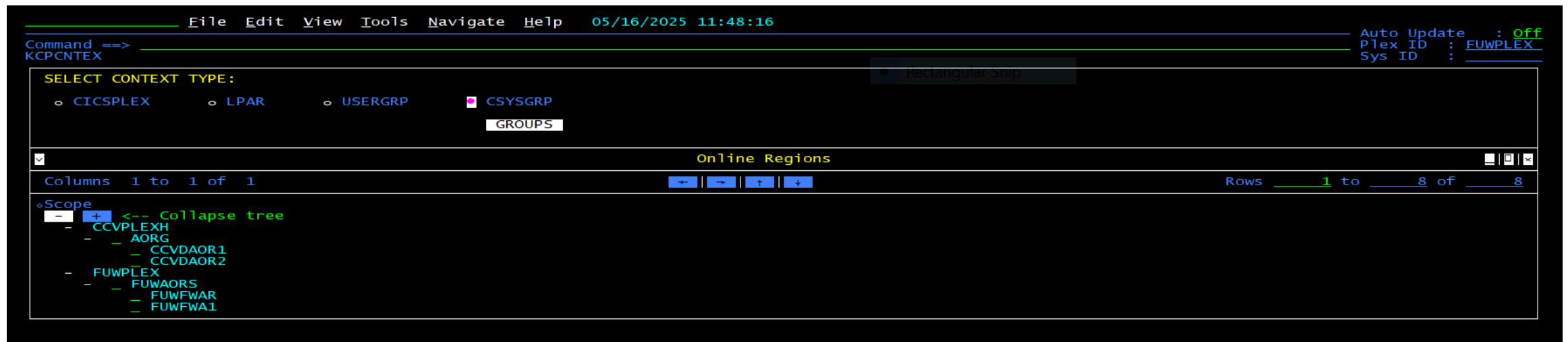
DEVPLX61 ▾

DB2GRP01 ▾
DB2GRP01
DORGRP00
FILEGRP1
JVMGRP1
TSOGRP1

GROUPS APPLY CANCEL

Using the CONTEXT Command (v6.1)

The **CONTEXT** command is used to select a grouping of regions



Note: Only CICS Plexes that contain CP/SM System groups will be displayed.

OMEGAMON for CICS 5.6 FP3 enhancements

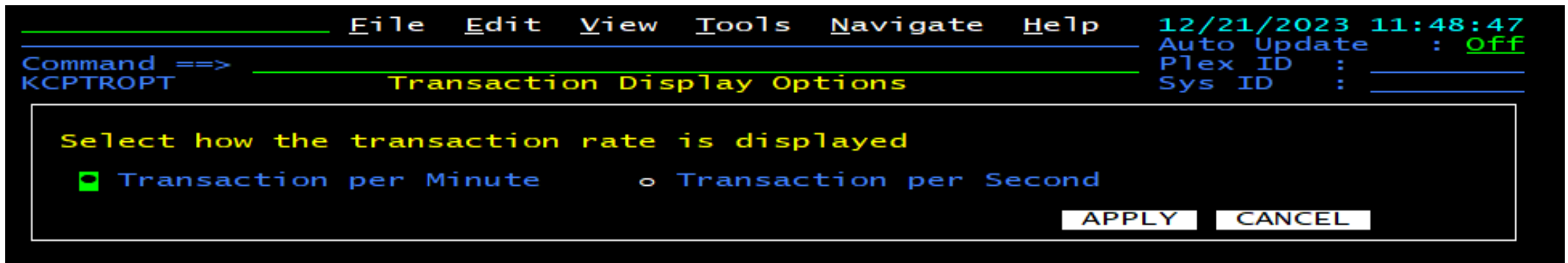
Transaction Rate options

Many customers have requested the transaction rate to be displayed in transactions per second.

This can now be achieved if all the regions monitored are at FP3 level or above.

The new **Options** command gives the user the choice.

The default is per Minute.



The screenshot shows a terminal window with a menu bar (File, Edit, View, Tools, Navigate, Help) and a status bar (12/21/2023 11:48:47, Auto Update : Off). The command 'KCPTROPT' is entered, and the 'Transaction Display Options' dialog box is displayed. The dialog box contains the text 'Select how the transaction rate is displayed' and two radio button options: 'Transaction per Minute' (selected) and 'Transaction per Second'. At the bottom right of the dialog box are 'APPLY' and 'CANCEL' buttons.

```
File Edit View Tools Navigate Help 12/21/2023 11:48:47
Auto Update : Off
Command ==> KCPTROPT Transaction Display Options
Plex ID :
Sys ID :

Select how the transaction rate is displayed
[ ] Transaction per Minute [x] Transaction per Second
APPLY CANCEL
```

Transaction Rate options

The default Transaction rate per minute.

Events	z/OS	CICS	C/TG		
All Active CICSplexes					
Columns 2 to 6 of 19		Rows 1 to 2 of 2			
ΔCICSplex ▽Name	ΔNumber of ▽Regions	ΔTransaction ▽Rate	ΔCPU ▽Utilization	ΔAny SOS ▽Regions	ΔSOS ▽Region
DEVPLX61	1	11359/m	2.7%	No	n/a
OMEGPLEX	2	28933/m	3.1%	No	n/a

Transaction rate per second.

Events	z/OS	CICS	C/TG		
All Active CICSplexes					
Columns 2 to 6 of 19		Rows 1 to 2 of 2			
ΔCICSplex ▽Name	ΔNumber of ▽Regions	ΔTransaction ▽Rate	ΔCPU ▽Utilization	ΔAny SOS ▽Regions	ΔSOS ▽Region
DEVPLX61	1	190.9/s	2.7%	No	n/a
OMEGPLEX	2	477.2/s	3.1%	No	n/a

Transaction Rate options

The default Transaction rate is per minute.

To make the selection of seconds permanent add the following line to the user profile in the UKOBDATF dataset:

SET U_KCPTRANRATE = SECONDS

Program Tracking changes

Program tracking looks for any EXEC requests coming from outside of the current program.

If the request comes from another program, we attempt to locate that program and associate the request time from here against that.

When programs are LE enabled, many requests will come from CEECCICS. These requests are really part of the underlying application program and should be treated as such.

This will mean significantly less program switches leading to a reduced cost of using program tracking for LE programs.

OMEGAMON for CICS V6.1 (Base Release)

OMEGAMON AI Insights



Focus on **customers needs**

AI Insights Factory: **Customers on board**

Working **Out of the box yet Customizable**

Static VS **Dynamic Baselineing**

Relevant **alerts** for **critical events**

Filtering for focused AI

Tailored set of KPIs

zIIP and **IPL** enabled

Total Cost of Ownership

SRE* – get alerts, quick analysis and dispatch to SMEs*

*SRE – Site Reliability Engineer

*SME – Subject Matter Expert

OMEGAMON AI Insights

Context – OMEGAMON Situations VS AI Insights

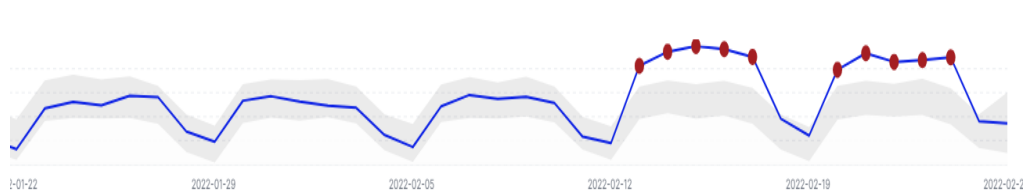
OMEGAMON AI and Situations are complementary, and AI could help Situations be more dynamic...

OMEGAMON AI Insights

Dynamic baselines
Complex problems

Curated

(CPU Time, Network Segments, CICS Response Time, ...)



OMEGAMON Situations

Static thresholds
Domain rule based

Every other metrics



Use Case #1 – Analysis of Transaction Performance at Region Level

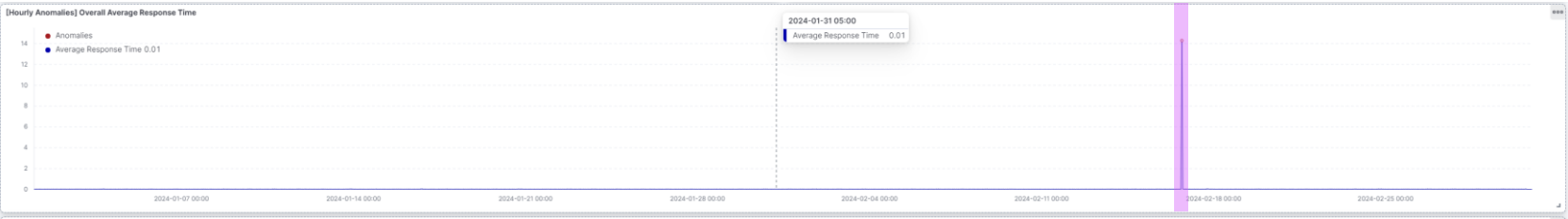
Alerting on significant divergence of **Transaction Response Time** to detect potential resource constraints ensuring performance and protection of transactional workload.

Context: CICS customers generally have hundreds of CICS regions. The workload on any specific region tends to support a given application. While the region activity could be broken down further to transaction level, at the application level, this adds limited value for a significant overhead. Therefore, applying Machine Learning to the CICS region level metrics is more appropriate.

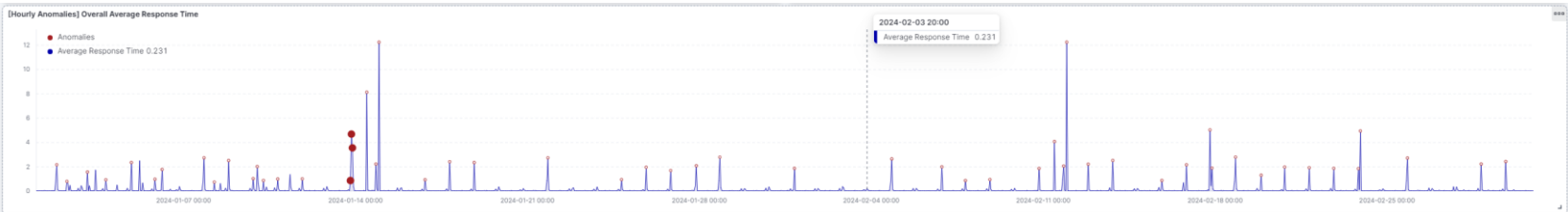
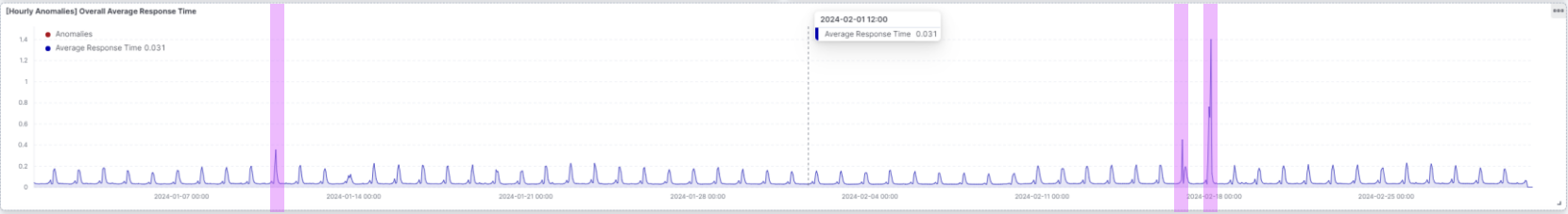
Use Case #1 – Analysis of Transaction Response Time at Region Level

Dynamic thresholding to detect outliers on transactional response time of regions timeseries.

Active
*Response time stable
Very high throughput
Very quick response time*



Inactive
*Response time spiky
High to low throughput
Quick to slow response time*



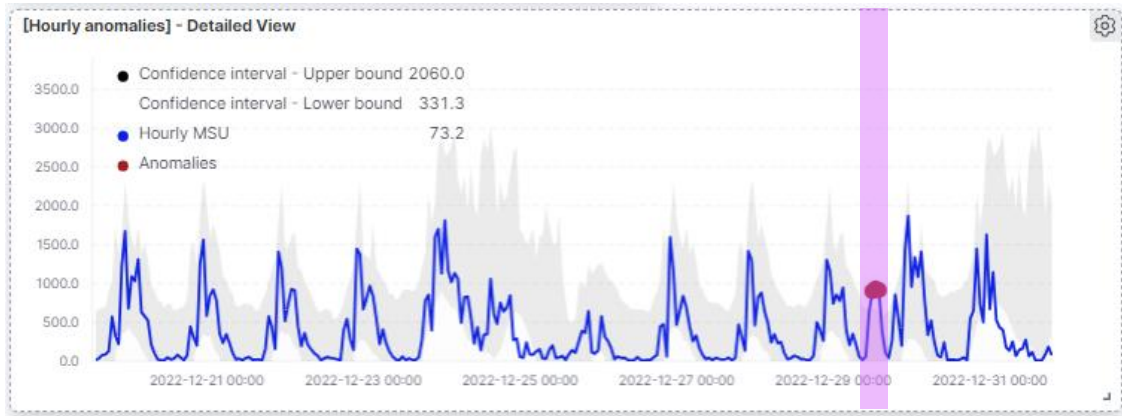
Very Inactive
*Response time very spiky
Low discontinuous throughput
Slow response time
(Ignored by default)*

Use Case #2 – Analysis of CPU Consumption at Region Level

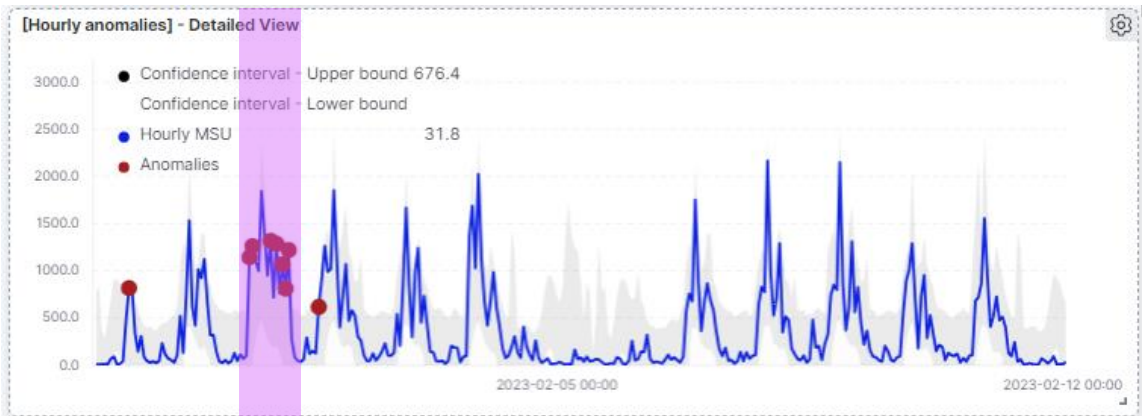
Alerting on significant divergence of **CPU Time** to detect significant deviation ensuring performance and protection of transactional workload.

Context: CICS customers generally have hundreds of CICS regions. The workload on any specific region tends to support a given application. While the activity of a region may vary over time, it should remain stable and seasonal to ensure the proper performance of the region and control associated costs. Therefore, applying Machine Learning to the CICS region level metrics is appropriate.

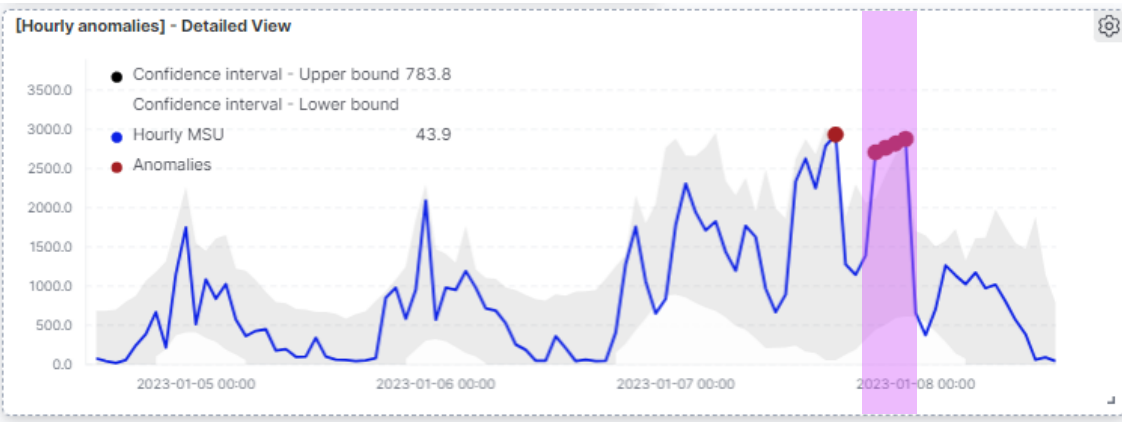
Use Case #2 – Analysis of CPU Time at Region Level



Spike outside of season



Broken Patterns



Consecutive low anomalies

What is YOUR definition of an anomaly? How would you choose which workload or region to run ML on? Does any slight divergence count? Any day of the week?

Task History Improvements

Task History was previously limited to a maximum dataset size of 4GB per region.

This allowed for a maximum of approximately 4.5 Million transactions per region.

This limit is now removed and extended Linear datasets are now supported. The required 4K CI size results in a maximum potential dataset of 16TB.

The format of the file has changed, A file which was previously used with an earlier version of OMEGAMON will be reformatted upon first use with V610.

There is no need to change the dataset, unless a larger size is required.

Task History Improvements

Task History can now be paused.

Pausing task history allows viewing the task history data while no new tasks are collected.

This can be used with a small file or dataspace, allowing some transactions to be collected and then pause the collection to allow viewing the detail data, such as Application Trace, without fear of the datastore wrapping and losing the information.

Task history can be configured to start in a paused state.

Task History Improvements

Most of Task History processing will now use zIIP processors where available.

The collection of task data and the processing of requests to view task history data will now be processed on zIIP processors.

This applies to both Dataspace and file-based task history.

Service Level Analysis data collection, which previously ran on general purpose processors is now also zIIP eligible.

Task History Improvements

FileEditViewToolsNavigateHelp

09/04/2024 08:09:34
Auto update : off
CICSplex : OMEGPLEX
Region : CICD6106

Command ==> KCPONDV

CICS Task History Status

Task History Status Active

Task History File Status

Data Store Type.....	File	Start Date.....	09/04/24
Data Store Size.....	5.8G	Start Time.....	06:07:29
Display Requests.....	112	Transaction Recs Received..	11047668
Task Records.....	10409179	Cross Memory Posts.....	5016
Task Data Records.....	10408953	Current Index Allocation..	13.0%
Data Store Wraparound.....	1	Boundary Adjustments.....	1
Index wraparounds.....	1	Processing Mode.....	SRB
Date of oldest Transaction	09/04/24	Date of Most Recent Trans..	09/04/24
Time of oldest Transaction	06:15:21	Time of Most Recent Trans..	08:09:25
Timespan.....	1h 54m		

Task History VSAM File Name

TDCICST.C5610D.CICD6106.RKC2HIST

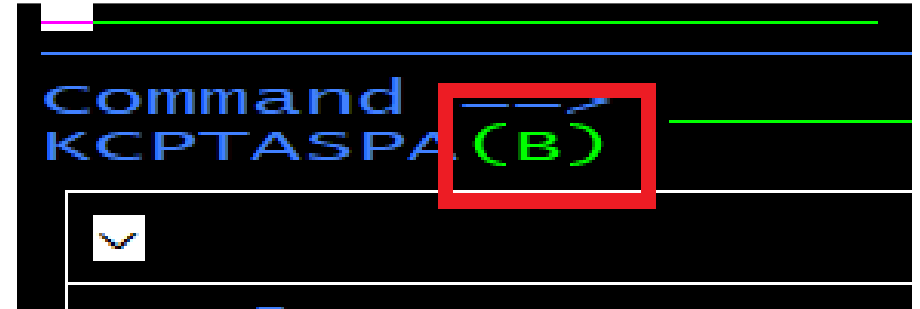
Task History Pause Information

Last Pause Date.....	09/04/24	Last Resume Date.....	09/04/24
Last Pause Time.....	06:13:58	Last Resume Time.....	06:14:07

Bookmarking

Some OMEGAMON workspaces, which are used frequently, can now be "**Bookmarked**".

When a screen contains "(B)" following the workspace name, it is eligible for bookmarking.



This indicates that users can use the command **BOOK** and give the workspace a unique name.

OMEGAMON CICS allows any **FIND** command display to be bookmarked.

Context is saved as part of the Bookmark.

These Bookmarks can be saved to a user's profile.

The **UNBOOK** command can be used to remove unwanted bookmarks.

Bookmarking

For example, a find for all tasks beginning with M or L across a specific LPAR.

- Type **CONTEXT LPAR *smfid***
- Type **FIND ACT L* M***

FileEditViewToolsNavigateHelp

10/15/2024 14:37:40
Auto Update : off
LPAR : SB3
Region :

Command ==>
KCPTASPA(B)

LPAR Task Summary

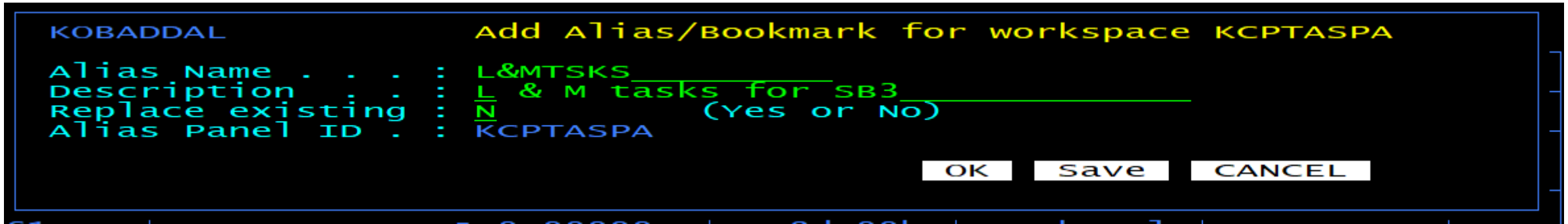
Task summary for tranid L* M*

Columns 3 to 7 of 25 Rows 1 to 17 of 17

ΔCICS Region ▽Name	ΔTransaction ▽ID	ΔCPU ▽Time	ΔElapsed ▽Time	wait Type	Resource Type	+Res Nam
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCntl	USERWAIT	MC
— CICD61SM	MMST	0.00000s	8d 00h	TaskCntl	USERWAIT	MM
— CICD61SM	LNCS	0.00000s	8d 00h	TaskCntl	USERWAIT	CL
— CICD61SM	LNCI	0.00000s	8d 00h	Terminal	ZCLOWAIT	DF
— CICD61SM	LEER	0.00000s	8d 00h	TaskCntl	USERWAIT	CL

Bookmarking

- Type **Book** and fill in a name and description.

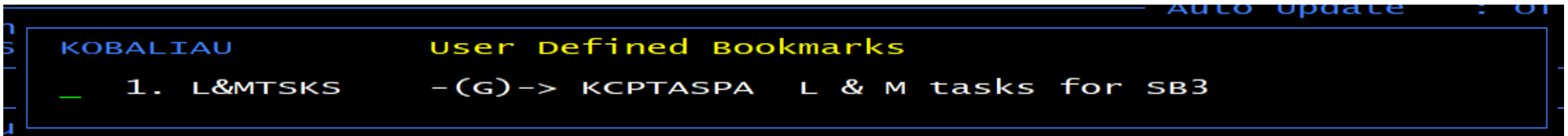


KOBADDAL Add Alias/Bookmark for workspace KCPTASPA

Alias Name . . . : L&MTSKS
Description . . . : L & M tasks for SB3
Replace existing : N (Yes or No)
Alias Panel ID : KCPTASPA

OK Save CANCEL

- Click on **OK** or **SAVE** to save to a user profile for later sessions.
- From any screen now user option **V**iew then **U**ser Bookmarks to see defined user bookmarks.



KOBALIAU User Defined Bookmarks

1. L&MTSKS -(G)-> KCPTASPA L & M tasks for SB3

Bookmarking

- From any workspace use the bookmark.

L&MTSKSFileEditViewToolsNavigateHelp10/15/2024 14:43:25
Auto Update : off
Plex ID : RSPLEXOK
SMF ID : SB3

Command ==> KM5ASPO(B)Address Space Overview

Address Space Counts

Address Space Count.....	326	Total Enclave Count.....	71
Started Task Count.....	276	Active Enclave Count.....	26
TSO User Count.....	10	Inactive Enclave Count....	45
Batch Job Count.....	28	APPC Count.....	12

CPU Utilization Summary

columns 4 to 7 of 36	Rows 1 to 22 of 326					
ΔAddress Space ▽Name	ΔASID ▽	ΔTotal ▽CPU%	ΔTotal ▽GCPU%	ΔTotal ▽ZIIP%	ΔZIIP ▽on CP%	ΔTCB% ▽
S3TOM550	024D	4.8	4.8	0.0	0.0	4.8

This will take you to the bookmarked workspace.

FileEditViewToolsNavigateHelp10/15/2024 14:45:56
Auto Update : off
LPAR : SB3
Region :

Command ==> KCPTASPA(B)LPAR Task Summary

Task summary for tranid L* M*

columns 3 to 7 of 25	Rows 1 to 17 of 17					
ΔCICS Region ▽Name	ΔTransaction ▽ID	ΔCPU ▽Time	ΔElapsed ▽Time	wait Type	Resource Type	+Res Nam
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCnt1	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCnt1	USERWAIT	MC
— CICD61SM	MCCM	0.00000s	8d 00h	TaskCnt1	USERWAIT	MC

Prior Task details

Previous Transaction information is now available for both active and historical tasks which is split into three parts:

- Origin data – a task which was identified as a new point of origin of this work request within CICS.
- Previous hop data – a task which started current task from another CICS region.
- Previous task data – a task which started current task within the same CICS region.

Prior task details for task 00321			
Original Tran ID.....	STRS	Original Task Number.....	00249
Original Network ID.....	ROCKNET1	Original APPLID.....	CACL6201
Original Start Date.....	09/12/24	Original Start Time.....	04:05:38
Previous Task Tran ID.....	STRS	Previous Task Number.....	00250
Previous Task Date.....	09/12/24	Previous Task Time.....	04:05:43
Previous Task Count.....	2		

Prior Task details

- Data is available on the task Details tab for both history and active tasks, as well as Related tab for history tasks.
- User can navigate to the previous transaction by pressing on task number regardless of current task state and which CICSplex task originated from.

Command ==> KCPTASHE

Display : HISTORY
CICSplex : OMEGAPLEX
Region : CICD6106

Details	Statistics	Storage	Timings	I/O	Programs	Related
---------	------------	---------	---------	-----	----------	---------

☒ Task History Detail for Task Number 00081

Transaction ID.....	DPLS	CPU Time.....	.002678s
Response Time.....	18.8737s	Task Number.....	00081
End Time.....	06:41:14	Start Time.....	06:40:55
User ID.....	CICSUSER	Program ID.....	DPLLSTRT
Storage HWM.....	3648	File Requests.....	0
Terminal ID.....	M51	Terminal I/O.....	0
ABEND Code.....		Trace active.....	No
End Date.....	09/11/24	Start Date.....	09/11/24
Asynchronous Status.....	No	Original start time.....	06:40:55

☒ Prior task details for task 00081

Original Tran ID.....	CRTE	original Task Number.....	00185
Original Network ID.....	ROCKNET1	Original APPLID.....	CACLS201
Original Start Date.....	09/11/24	Original Start Time.....	06:40:55

Previous Hop Tran ID.....	CRTE	Previous Hop Task Number..	00416
Previous Hop Network ID...	ROCKNET1	Previous Hop APPLID.....	CACD5502
Previous Hop Date.....	09/11/24	Previous Hop Time.....	06:40:55
Previous Hop Count.....	2		

Transaction timings display

Timings tab is now split into three panels:

- WAIT – values representing where task was idle.
- ACTIVE – breakdown of task's execution times.
- DETAILED lists all the timing categories tracked by OMEGAMON.

Command ==> KCPTASHT Task History Detail CICSplex : OMEGPLEX Region : CICD6101

Details Statistics Storage Timings I/O Related

Select Timing Category:

WAIT ACTIVE DETAILED

Columns 1 to 4 of 4 Rows 1 to 6 of 6

ΔTime ▽Category	ΔTime ▽Spent	ΔPeriod ▽Count	ΔTime ▽Percentage
Program fetches wait	.003232s	1	
Total wait	.000171s	5	
TCB change mode delay	.000148s	4	
Re-dispatch wait	.000146s	4	
QR TCB wait-for-dispatch	.000118s	2	
1st Dispatch delay	.000022s	1	

Transaction timings display

New table attribute additions:

- Period Count – number of measurement periods during which the Time Spent value was accumulated in the specified category.
- Time Percentage – percentage of the overall task's response time where task spent in specified category.

Command ==> KCPTASHT

Task History Detail

Display : TEST001
CICSplex : OMEGPLEX
Region : CICD6101

Details Statistics Storage Timings I/O Related

Select Timing Category:
WAIT ACTIVE DETAILED

Columns 1 to 4 of 4 Rows 1 to 15 of 15

ΔTime ▽Category	ΔTime ▽Spent	ΔPeriod ▽Count	ΔTime ▽Percentage
Elapsed	.006847s	0	
Dispatch	.006676s	5	
RO TCB elapsed	.005024s	1	
Other TCBs elapsed	.005024s	1	
CPU On General Purpose	.002012s	5	
CPU	.002012s	5	
QR TCB elapsed	.001640s	3	
RO TCB CPU	.001502s	1	
Other TCBs CPU	.001502s	1	
QR TCB CPU	.000499s	3	
Syncpoint elapsed	.000201s	1	
RMI elapsed	.000052s	6	
Key 8 TCB elapsed	.000011s	1	
LE(L8-1) TCB CPU	.000010s	1	
Key 8 TCB CPU	.000010s	1	

OMEGAMON for CICS 6.1 FP1 enhancements

Current Average Response Times

OMEGAMON CICS has typically calculated response time at the end of SLA intervals. This meant that the calculated response time would not change for a period of time (1 or 5 minutes).

The metrics displayed at the CICSplex, and Region Summary panels is primarily data which is fluid and potentially changing on every refresh.

The response time is now calculated independently from the SLA interval for both Region overview and CICSplex overview.

In CICS regions where OMEGAMON is initialized the transaction rate will now be calculated from the transaction end rate rather than the attach count as it was previously.

Current Average Response Times

- For the CICSplex summary the response time will be calculated based upon the transactions which occurred in regions where OMEGAMON is initialized.
- The transaction rate may include regions which do not have OMEGAMON installed. This will not affect the average response time.

File Edit View Tools Navigate Help 05/20/2025 11:58:25

Command ==> KOBSCICS

Auto Update : off
Plex ID :
Sys ID :

OMEGAMON Products

Events Z/OS CICS C/TG IMS DB2 MQ MFN STOR JVM IIB

All Active CICSplexes

Columns 2 to 9 of 20 Rows 1 to 5 of 5

ΔCICSplex ▽Name	ΔNumber of ▽Regions	ΔTransaction ▽Rate	ΔAverage ▽Response Time	ΔCPU ▽Utilization	ΔAny SOS ▽Regions	ΔSOS ▽Region	ΔWorst ▽Performance Index	ΔWorst Service ▽Class Name
■ FUWPLEX	6	100.8/s	.002557s	1.6%	No	n/a	0.02%	CTTRANS
— RSC1	1	37.0/s	.000643s	0.8%	No	n/a	0.00%	n/a
— RSC2	1	0.0/s	0.00000s	0.0%	No	n/a	0.00%	n/a
— RSC3	1	37.3/s	.000629s	0.8%	No	n/a	0.00%	n/a
— WUIPLEX	1	0.0/s	0.00000s	0.0%	No	n/a	0.00%	n/a

Current Average Response Times

- For each CICS region, where OMEGAMON is installed, The transaction rate and average response time will be calculated from the start of the prior minute.
- If OMEGAMON is not initialized in a region, the response time will indicate **NO INIT**.
- If the OMEGAMON level in a CICS region is below what is required to produce response time data, the column will indicate **VERSION**.

File Edit View Tools Navigate Help 03/20/2025 11:57:37

Command ==> KCPRGNS(B) CICSplex Regions Summary

Auto Update : off
CICSplex : FUWPLEX
Region :

Regions Summary for FUWPLEX

Columns 2 to 9 of 37 Rows 1 to 6 of 6

ΔCICS Region ▽Name	ΔCPU ▽Utilization	ΔTransaction ▽Rate	Average Response Time	ΔMaximum Tasks ▽Percent	Highest Pct Class MaxT	Total Queued Transactions	ΔSOS ▽	ΔStg. Violations ▽last hour
FUWFWAR	0.3%	12.7/s	.005613s	0%	0%	0	No	0
FUWFWA1	0.5%	23.5/s	.002500s	0%	0%	0	No	0
FUWFWFR	0.2%	18.1/s	NO INIT	0%	0%	0	No	0
FUWFWF2J	0.0%	0.0/s	0.00000s	0%	0%	0	No	0
FUWFWIR	0.1%	11.6/s	NO INIT	0%	0%	0	No	0
FUWFWTR	0.6%	36.3/s	.003657s	0%	0%	0	No	0

Current Average Response Times

- Putting the cursor on the response time and hitting Enter will take you to the CICS transactions today workspace.

FileEditViewToolsNavigateHelp03/20/2025 12:07:31

Command ==> KCPRRTD(B)CICS transactions today

Auto Update : offCICSplex : FUWPLEXRegion : FUWFWA1

Transactions for CICS FUWFWA1

Columns 1 to 5 of 5Rows 14 to 26 of 84

ΔInterval ▽Start	ΔTransaction ▽Count	ΔTransaction ▽Rate	ΔResponse ▽Time	ΔResponse ▽Time
11:54:00	823	13.7/s	.003765s	
11:53:00	1334	22.2/s	.001691s	
11:52:00	827	13.7/s	.006162s	
11:51:00	1099	18.3/s	.005943s	
11:50:00	1230	20.5/s	.002156s	
11:49:00	1122	18.7/s	.002301s	
11:48:00	1092	18.2/s	.002807s	
11:47:00	817	13.6/s	2.31361s	
11:46:00	1612	26.8/s	.000929s	
11:45:00	1359	22.6/s	.002623s	
11:44:00	1062	17.7/s	.002709s	
11:43:00	1134	18.9/s	.001666s	
11:42:00	1061	17.6/s	.001978s	

Current Average Response Times

- Selecting an interval will show the CICS Task History Summary, filtered for the transactions which occurred in the selected minute.

Command ==> KCPTASH CICS Task History Summary CICSplex : FUWPLEX Region : FUWFWA1

From 11:47:00 on 03/20/2025 to 11:48:00 on 03/20/2025 HELP

☒ Use 'Filter' command to filter data

Columns 2 to 12 of 16 Rows 1 to 11 of 817

ΔTransaction ▽ID	ΔCPU ▽Time	ΔResponse ▽Time	ΔEnd Time ▽	ΔTask ▽Number	ΔFile ▽Requests	ΔABEND ▽Code	ΔStorage ▽HWM	User ID	Program ID	Terminal ID	+Terminal I/O
SSC1	.000250s	.001499s	11:47:59	84683	0		177808	CICSUSER	LGTESTC1	Q1	0
SSC1	.000096s	.000118s	11:47:59	84682	0		129808	CICSUSER	LGTESTC1	Q1	0
SSP1	.000100s	.000105s	11:47:59	84681	0		129584	CICSUSER	LGTESTP1	Q1	0
LGCF	.000216s	.000847s	11:47:59	84680	1		63952	CICSUSER	LGICVS01	Q1	0
SSC1	.000249s	.001431s	11:47:59	84679	0		177808	CICSUSER	LGTESTC1	Q1	0
LGCF	.000184s	.000579s	11:47:59	84678	1		63952	CICSUSER	LGICVS01	Q1	0
LGPF	.000145s	.000866s	11:47:59	84677	1		63712	CICSUSER	LGIPVS01	Q1	0
LGPF	.000146s	.000452s	11:47:59	84676	1		63712	CICSUSER	LGIPVS01	Q1	0
SSP4	.000096s	.000109s	11:47:59	84675	0		129568	CICSUSER	LGTESTP4	Q1	0
LGPF	.000133s	.000371s	11:47:59	84674	1		63712	CICSUSER	LGIPVS01	Q1	0
LGCF	.000330s	.001112s	11:47:59	84673	1		63952	CICSUSER	LGICVS01	Q1	0

BACK | HOME 20 March 10:08 to 20 March 12:08 << HISTORY

Improved Context Command

- Entering **C** next to a CICSplex will now display the CONTEXT menu.
- This displays all CICSplexes with active regions.
- The context type can be changed to select CICSplex, LPAR, user group, or CP/SM system groups

```
Command ==>
KPCNTEX

SELECT CONTEXT TYPE:
☒ CICSplex   ☐ LPAR   ☐ USERGRP   ☐ CSYSGRP
                                GROUPS

☒ Online Regions

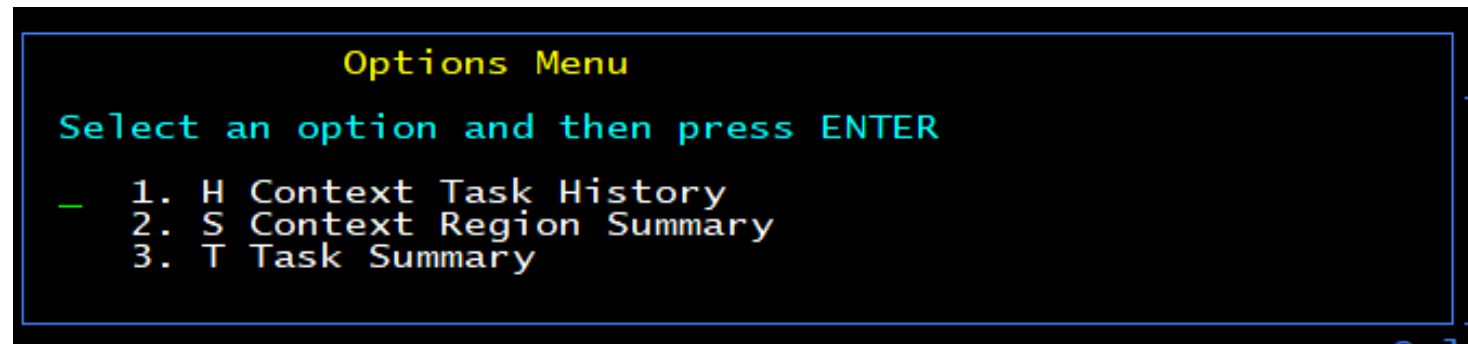
Columns 1 to 1 of 1

◊Scope
- ☒ <-- Collapse tree
- FUWPLEX
-   FUFWAR
-   FUFWA1
-   FUFWFR
-   FUFWF2J
-   FUFWIR
-   FUFWTR
- RSC1
-   CIC156GA
- RSC2
-   FUWCMAS
- RSC3
-   CIC356GA
- WUIPLEX
-   FUWWUI
```


Improved Context Command

At each level there are 3 options

1. **H - Context task history**
2. **S - Context Region Summary**
3. **T - Task Summary**



In each case the regions or scope selected to form the display will be based upon the level chosen. When a group of regions are selected for Task History. That History will be for the 1 minute similar to CICSplex task history.

Or Just double click the region or CICSplex name for a "**S**".

Summary of Transaction Waits

- Under the task display, there is now a **Transaction Waits** tab.
- This displays a summary by region and transaction of what tasks are currently waiting for.

Command ==> KCPTASSP(B) Auto Update : ON
CICSplex : FUWPLEX
Region :

CICSplex Task Summary

Active Tasks Transaction Waits

Active Tasks

Columns 3 to 13 of 30 Rows 1 to 2 of 2

ΔCICS Region ▽Name	ΔTransaction ▽ID	ΔTotal ▽	ΔAverage ▽CPU Time	ΔAverage ▽Elapsed Time	ΔCPU ▽	ΔDatabase ▽	ΔDBCnt1 ▽	ΔEnqueue ▽	ΔFEPI ▽	ΔFile ▽	ΔInterval ▽	ΔLoader ▽
- FUWFWTR	LGCF	0	1	.000084s	.013791s	0	0	0	0	0	0	0
- FUWFWA1	LGCF	0	1	.000108s	.013929s	0	0	1	0	0	0	0

- The classification is based upon the wait type column in the task display.

Command ==> KCPTASSP(B) CICSplex Task Summary

Active Tasks Transaction Waits

Task Summary

Columns 3 to 13 of 25

ΔCICS Region ▽Name	ΔTransaction ▽ID	ΔCPU ▽Time	ΔElapsed ▽Time	ΔWait ▽Type	ΔResource ▽Type	ΔResource ▽Name	ΔDuration ▽of Suspend	ΔTask ▽Number	ΔAllocated ▽Below 16Me
- FUWFWA1	LGCF	0	.000060s	.005207s	Enqueue	EXECplex	.005137s	36187	0
- FUWFWA1	LGCF	0	.000053s	.005276s	Enqueue	GENA	.005206s	36186	0
- FUWFWTR	LGCF	0	.000044s	.005029s	MRO	FWA1>AAB	.004939s	28789	0
- FUWFWTR	LGCF	0	.000041s	.005017s	MRO	FWA1>AAA	.004971s	28788	0

Current Average Response Times

- Hit F9 to see the following is the list of columns showing the wait types summarized.

Command ==> KOBWIZ02

Customize Column Display

☒ This is the Column Summary for Workspace KCPTASSP (SP05)

Columns 2 to 6 of 6

Column Caption	Display Pos	Sort Y/N	Filter Y/N	Stat Col	Changed Column
CICS Region Name	1	Yes	No	Yes	No
Transaction ID	2	Yes	No	Yes	No
Total	3	Yes	No	No	No
Average CPU Time	4	Yes	No	No	No
Average Elapsed Time	5	Yes	No	No	No
CPU	6	Yes	No	No	No
Database	7	Yes	No	No	No
DBCntl	8	Yes	No	No	No
Enqueue	9	Yes	No	No	No
FEPI	10	Yes	No	No	No
File	11	Yes	No	No	No
Interval	12	Yes	No	No	No
Loader	13	Yes	No	No	No
LogMgr	14	Yes	No	No	No
MQSeries	15	Yes	No	No	No
MRO	16	Yes	No	No	No
MRO/ISC	17	Yes	No	No	No
Other	18	Yes	No	No	No
Pipeline	19	Yes	No	No	No
Recovery	20	Yes	No	No	No
Security	21	Yes	No	No	No
Socket	22	Yes	No	No	No
Storage	23	Yes	No	No	No
TaskLims	24	Yes	No	No	No
TempStor	25	Yes	No	No	No
Terminal	26	Yes	No	No	No
TPPS	27	Yes	No	No	No
TranData	28	Yes	No	No	No
User	29	Yes	No	No	No
WebSvcs	30	Yes	No	No	No

Documentation details

- Updated documentation can be found here: <https://www.ibm.com/docs/en/om-cics/5.6.0?topic=whats-new-in-v560>
- A blog entry can be found here: <https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/ezriel-gross/2022/06/17/ibm-z-omegamon-for-cics-v560>
- A blog entry relating to CICS-DB2 linking can be found here: <https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/paul-kenney/2022/10/28/navigating-between-cics-history-and-db2-history>
- A blog entry for Fixpack 2 features is here: <https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/germanas-samrickis/2023/02/23/ibm-z-omegamon-for-cics-v560-fix-pack-2>
- Updated documentation can be found here: <https://www.ibm.com/docs/en/omegamon-for-cics/6.1.0>

Thank you.

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