

# WSC Experiences with z/OS 3.2 Performance Enhancements

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9:45am-10:05am

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# Agenda

z/OSMF WLM Policy Advisor

SYSSTC Health Checker Rule

New SRB Use Case for Dynamic I/O Activate

SRM Lock Contention Relief

Appendix

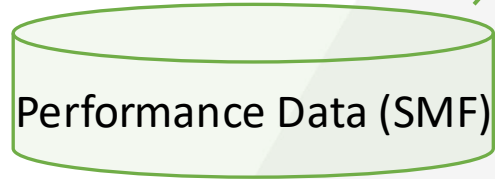
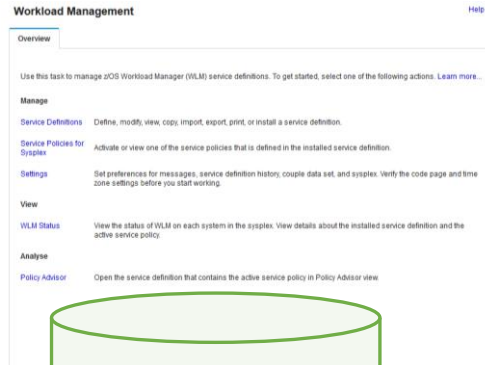
CPENABLE Default

New SMF Records



# Z/OS 3.2 WLM POLICY ADVISOR ENHANCEMENTS

# The Idea



Service policy info



Checked rules / warnings



Performance graphs

# z/OSMF Workload Management Task

## Workload Management

[Hel](#)

### Overview

Use this task to manage z/OS Workload Manager (WLM) service definitions. To get started, select one of the following actions. [Learn more...](#)

### Manage

- [Service Definitions](#) Define, modify, view, copy, import, export, print, or install a service definition. Analyze a service definition with Policy Advisor.
- [Service Policies for Sysplex](#) Activate or view one of the service policies that is defined in the installed service definition.
- [WLM Resource Pools](#) Manage WLM Resource Pools.
- [Settings](#) Set preferences for messages, service definition history, couple data set, and sysplex. Verify the code page and time zone settings before you start working.

### View

- [WLM Status](#) View the status of WLM on each system in the sysplex. View details about the installed service definition and the active service policy.

### Analyse

- [Policy Advisor](#) Analyze your service definition by choosing the service definition in the service definition page and selecting 'Open Policy Advisor'.

# Initial z/OS 3.1 WLM Policy Advisor

## New support to analyze a WLM service definition through the z/OSMF Workload Management task

- Provides analysis and data visualizations to review service definition set up and service class performance
- Offers several recommendations for the specified service definition based on best practices
- Simplifies WLM policy definition tasks
- New direction for working with WLM

## Requires a dataset with SMF 72.3 records for the active service policy

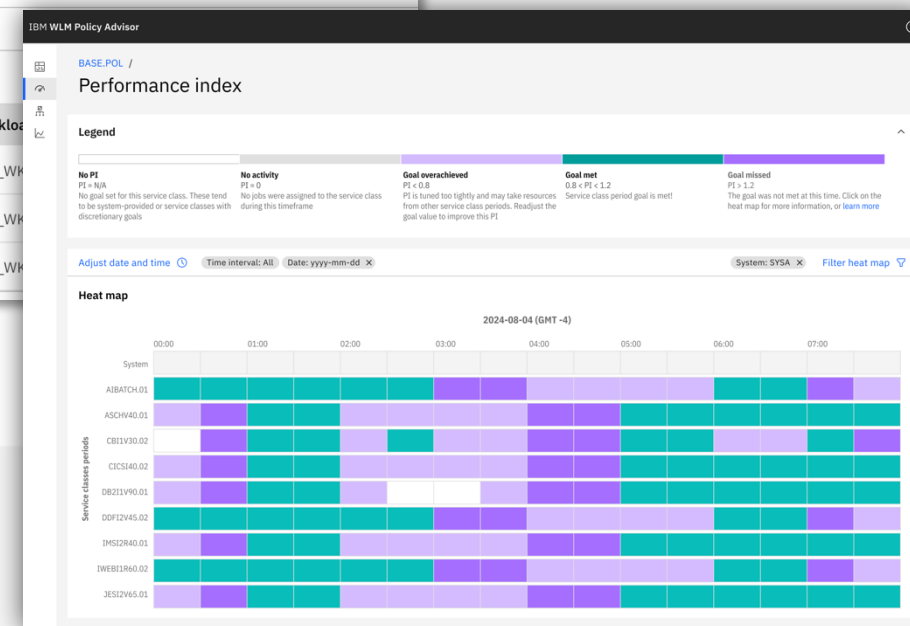
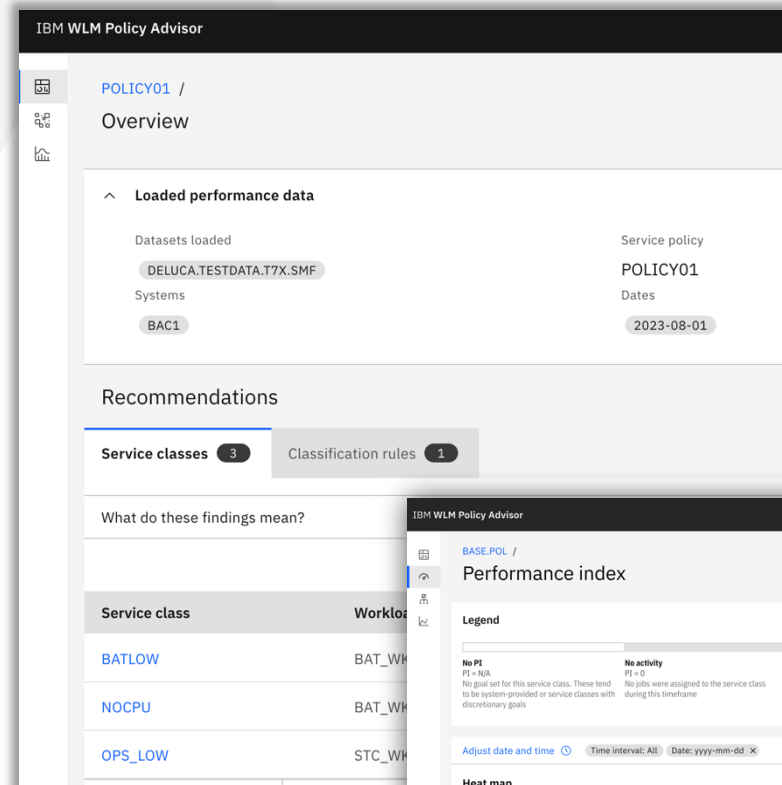
- Importance tab
- Performance Index tab
- Goal tab

The screenshot displays the IBM WLM Policy Advisor interface. At the top, there is a navigation bar with tabs for 'Data', 'Importance', 'Performance Index', and 'Goal'. The 'Data' tab is currently selected. Below the navigation bar, the main heading is 'Service definition and performance data'. A sub-heading reads 'First, load SMF performance data for the analysis of WLM service definition Policy01. Then choose one of the following tabs to start your detailed analysis:'. A bulleted list follows: 'Importance' helps to balance the importance levels used in the service definition; 'Performance Index' helps to examine the performance achievement of your workload; 'Goal' helps to review the defined goals in a policy. Below this is a section titled 'Details for service definition Policy01' which contains a table with three rows: 'Description' (WSC WLM Policy), 'Last modified' (Tue Jul 30 19:09:01 GMT 2024), and 'Last modified by' (deluca). Underneath the table is a section 'Select SMF data for analysis:' with a help icon. It includes a 'Data set name' field containing 'DELUCA.WSC.SMF7072' and a blue 'Scan SMF data' button. Below that are two dropdown menus: 'Service policy' set to 'POLICY01' and 'System(s)' set to 'Select system(s)'. A blue 'Load SMF data' button is positioned below these dropdowns.

Details for service definition Policy01	
Description	WSC WLM Policy
Last modified	Tue Jul 30 19:09:01 GMT 2024
Last modified by	deluca

# Policy Advisor Enhancements in z/OS 3.2

- Redesigned user interface
- Streamlined workflow and enhancements to load SMF data
  - Load data from multiple datasets
  - Search for dataset names from the UI
  - Choose specific LPARs and dates
- New overview page with actionable recommendations
- Improved filtering on Performance Index and Importance tabs
- All pages augmented with additional findings and recommendations



# Streamlined Workflow to Load SMF Data

Allows for searching of datasets, loading multiple datasets, and selecting specific systems and dates

IBM WLM Policy Advisor ?

- Search and select datasets
- Select a service policy
- Select systems
- Select dates
- Verify selected record parameters

### Search and select datasets

To use Policy Advisor, you must load SMF 72.3 performance data that was gathered while the selected WLM service definition was active on your system.

× Search

DELUCA.TEST\* ×

<input type="checkbox"/> Name
<input type="checkbox"/> DELUCA.TEST.AIU.BAC1.DAT
<input type="checkbox"/> DELUCA.TEST.AIU.BAC1.EDF
<input type="checkbox"/> DELUCA.TEST.AIU.BAC1.TRS
<input checked="" type="checkbox"/> DELUCA.TEST.T7X113.TRS
<input type="checkbox"/> DELUCA.TEST.WSCA.EDF
<input type="checkbox"/> DELUCA.TEST.WSCB.EDF
<input checked="" type="checkbox"/> DELUCA.TESTDATA.T7X.SMF

# New Overview Page

Shows which data is loaded and provides immediate and actionable recommendations

IBM WLM Policy Advisor

POLICY01 / Overview

Loaded performance data

Datasets loaded: DELUCA.TESTDATA.T7X.SMF  
Systems: WSC1  
Service policy: POLICY01  
Dates: 2023-08-01

Recommendations

Service classes 3 | Classification rules 1

What do these findings mean?

Service class	Workload	Service class periods	Findings	Recommendation
BATLOW	BAT_WKL	1	Unused	Review and remove
NOCPU	BAT_WKL	1	Unused	Review and remove
OPS_LOW	STC_WKL	1	Unused	Review and remove

Review and remove  
BATLOW

Finding	Recommendation
<b>IZUPA101I:</b> This service class has no classification rules and is considered unused.	<b>IZUPA201I:</b> Either remove the service class in the WLM service definition or edit the classification rules to reference this service class.

Service class attributes

Workload	Periods	CPU	IO priority group	Honor priority	Resource group	Description
BAT_WKL	1	No	Normal	Default	-	LOW PRIORITY BATCH APP A

Classification rules

Subsystem	Level	Qualifier	Qualifier	Report	Start	Storage	De
-----------	-------	-----------	-----------	--------	-------	---------	----

Open service class in WLM [↗](#) | View full service class details

# Additional Findings and Insights

## Performance Index (PI) Page

- Updates to PI heat map
- More filtering options
- Findings and detailed recommendations



POLICY01 /

Performance index analysis

Finding	Recommendation
<p><b>IZUPA102I:</b> There is no activity for the service class period(s): BAT_HIGH.1, BAT_LOW.1, BAT_MED.1, DDF_DEF.2, NOCPU.1, OPS_LOW.1, OPS_MED.1, TSO_DEF.1, TSO_DEF.2, TSO_DEF.3, TSO_SYS.1 .</p>	<p><b>IZUPA202I:</b></p> <ol style="list-style-type: none"> <li>1. Ensure this is not just a coincidence and check all time intervals and systems, including those where a different service policy is active, since this service class might only be in use then.</li> <li>2. Review the classification rules for this service class and evaluate whether they are still valid.</li> <li>3. Review earlier periods of this service class and evaluate if all work is already ending there. This may be because the duration of the periods are too short or too long for work to end in them. If so, consider consolidating the neighboring periods or adjusting the duration.</li> </ol>

### Legend

<p><b>No PI</b> PI = N/A The service class period does not have a PI. It is either a system-provided service class or has a discretionary goal.</p>	<p><b>No activity</b> PI = 0 The service class did not consume any service units during the selected timeframe.</p>	<p><b>Goal overachieved</b> PI &lt; 0.8 The service class performed better than the defined goal. Click on the heat map for more information.</p>	<p><b>Goal met</b> 0.8 ≤ PI ≤ 1.2 The service class met its goal.</p>	<p><b>Goal missed</b> PI &gt; 1.2 The service class did not meet the defined goal. Click on the heat map for more information.</p>
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# Additional Findings and Insights

## Importance Page

- Service class distribution across Importance Levels (defined)
- Actual distribution of work using Service Units
- Detailed findings and recommendations

IBM WLM Policy Advisor
?

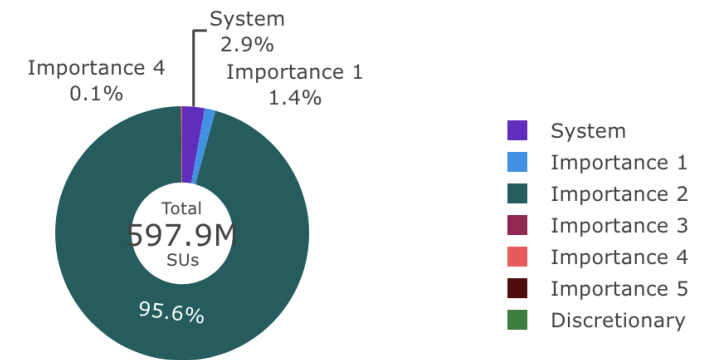
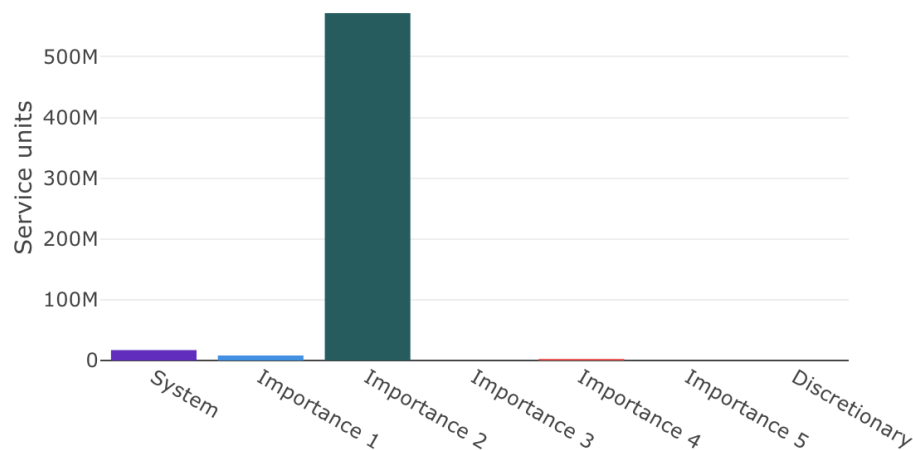
POLICY01 /  
Importance level distribution

Finding	Recommendation
<p><b>IZUPA104I:</b> There are no service class periods defined for importance level 5 .</p>	<p><b>IZUPA204I:</b> Review the service class periods of neighboring importance levels and determine which ones can be moved into importance level 5 .</p>

Skip periods without work classification ⓘ

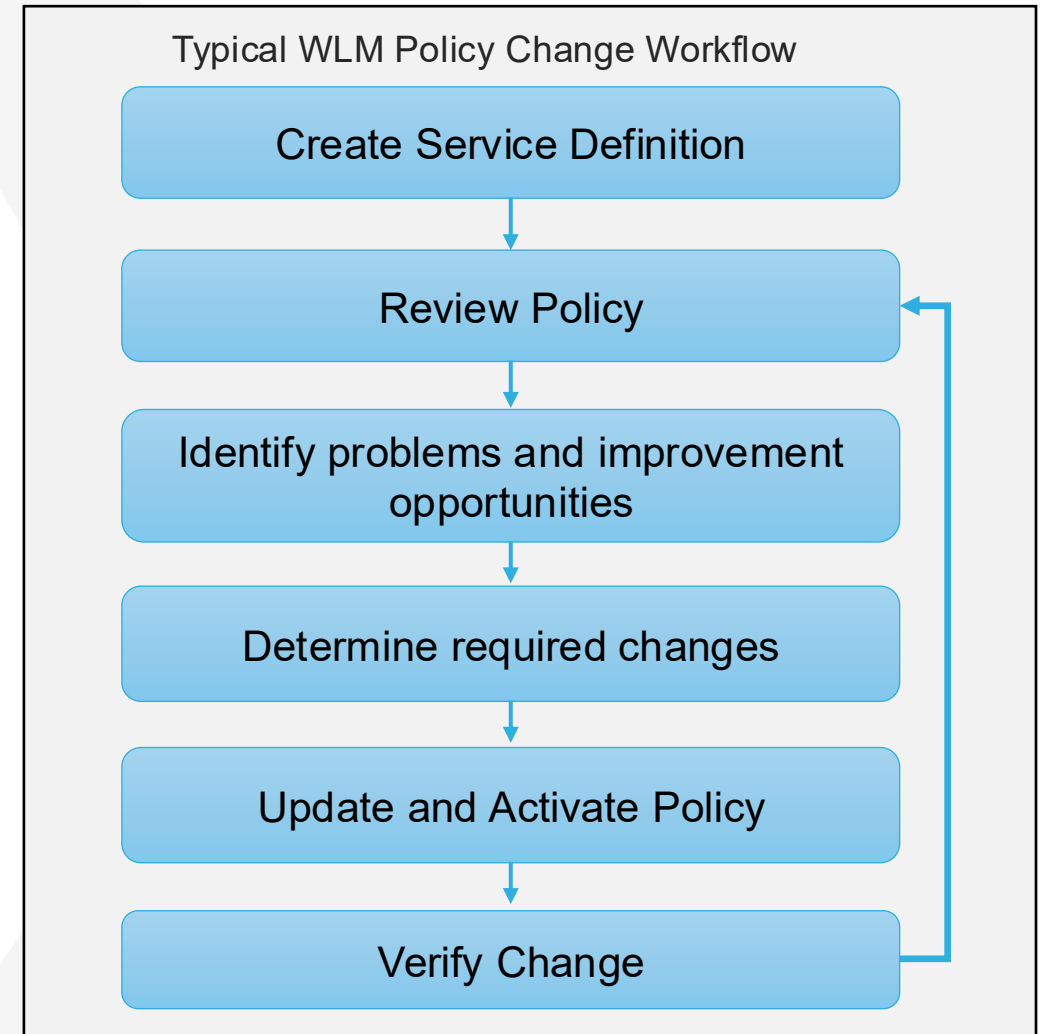
### Workload distribution (Service policy: POLICY01)

The workload distribution across importance levels shows how balanced the actual amount of work was running across the supported range of importance levels. ⓘ



# WSC Experience and Recommendations

- Extremely valuable to review WLM policies
  - Since z/OS 3.1, Policy Advisor has been a key tool in WLM engagements at the WSC
- Modern UI along with additional guidance and findings allow new WLM administrators to quickly visualize service class performance, make meaningful updates, and add value to the enterprise
- In many cases z/OSMF Workload Management Task along with WLM Policy Advisor can be an all-in-one solution
- Try it out! Feedback encouraged





# SYSSTC CPU Z/OS HEALTH CHECKER RULE WLM\_SCLASS\_SYSSTC

# z/OS Health Checker Rule for SYSSTC CPU Usage

IBM Health Checker for z/OS is a z/OS component that provides a set of system checks to help uncover potential problems before they impact availability

When there's an exception, each rule indicates a severity level -> Low, Medium or High

## New rule: WLM\_SCLASS\_SYSSTC

- Dynamic severity check when the CPU consumption of address spaces in the system supplied WLM service class SYSSTC exceeds one of the specified threshold percentages
- Inactive by default
- z/OS 2.5 and above with APAR OA66312

```
SDSF HEALTH CHECKS  MVSA                                LINE 186-210 (243)
COMMAND INPUT ==>                                       SCROLL ==> CSR
NP  NAME                                                    State              Status
VSM_CSA_LARGEST_FREE   ACTIVE (ENABLED)   SUCCESSFUL
VSM_CSA_LIMIT          ACTIVE (ENABLED)   SUCCESSFUL
VSM_CSA_THRESHOLD     ACTIVE (ENABLED)   SUCCESSFUL
VSM_PVT_LIMIT         ACTIVE (ENABLED)   SUCCESSFUL
VSM_SQA_LIMIT         ACTIVE (ENABLED)   SUCCESSFUL
VSM_SQA_THRESHOLD     ACTIVE (ENABLED)   SUCCESSFUL
WLM_OPT_PARM_CPENABLE  ACTIVE (ENABLED)   SUCCESSFUL
WLM_SCLASS_SYSSTC     INACTIVE (ENABLED) INACTIVE
XCF_CDS_MAXSYSTEM     ACTIVE (DISABLED)  ENV N/A
XCF_CDS_SEPARATION    ACTIVE (ENABLED)   SUCCESSFUL
XCF_CDS_SPOF          ACTIVE (ENABLED)   EXCEPTION-LOW
XCF_CF_ALLOCATION_PERMITTED ACTIVE (ENABLED)   SUCCESSFUL
XCF_CF_CONNECTIVITY   ACTIVE (ENABLED)   SUCCESSFUL
```

# Why SYSSTC Usage Should be Included in Regular System Checks

## Work running in SYSSTC has the second highest dispatch priority on the system

- Dispatch priority is fixed (xFE)
- It should be reserved for work that requires extremely fast access to CPU, but is not and does not have the potential to be CPU intensive
- At times, we see environments where inappropriate work runs in SYSSTC (Db2 DBM1, MSTR, DIST, MQ MSTR and CHIN, etc.) which risks delaying more critical OS and system tasks

Using the SYSSTC health check allows you to detect high CPU usage in SYSSTC, identify the address spaces causing it, and evaluate whether they are appropriate to be in SYSSTC

Example Structure of Workload Importance Levels	
<b>SYSTEM</b>	Predefined system address spaces
<b>SYSSTC</b>	Important monitors, automation, IRLM, everything which consumes very little CPU and requires fast and instantaneous access to CPU
<b>Importance 1</b>	Critical server address spaces, IMSDBCT, DBM1, MSTR, TORs when managed towards BOTH, monitors
<b>Importance 2</b>	Most important production work, your loved ones
<b>Importance 3 and 4</b>	Less important production work, TSO, very critical batch
<b>Importance 4 and 5</b>	Batch, TSO last period, all default service classes which do not need any attention
<b>Discretionary</b>	Batch

# Implementation – Evaluate Threshold Values

The rule allows for three threshold values to indicate severity (Low, Med, High)

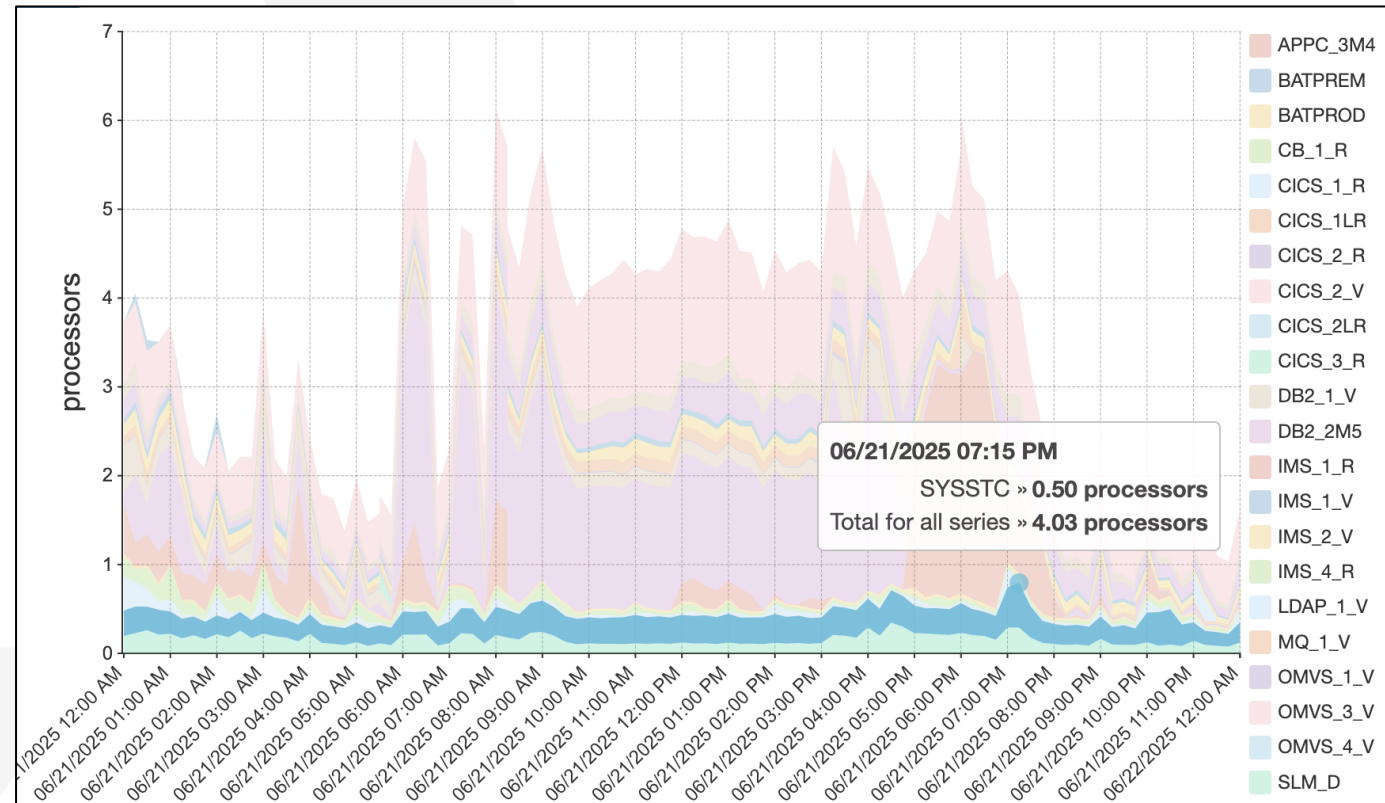
- At least one of these must be specified
- Threshold is the percent of total CPU time that all work can consume on the system

## WSC Recommendation:

- Thresholds can and should be customized
- Review what runs in SYSSTC today and remove anything which does not absolutely require this high dispatching priority
- Identify typical CP consumption at peak times in SYSSTC to determine appropriate thresholds

**Default:** THRESHOLD\_LOW (20%) , THRESHOLD\_MED (40%) , THRESHOLD\_HIGH (60%)

LPAR MVSA Captured CP Usage by Service Class



## Implementation – Enable the Rule

Temporary check changes and enablement can be made using MODIFY HZSPROC commands

- Ex. F HZSPROC, UPDATE  
CHECK(IBMWLM,WLM\_SCLASS\_SYSSTC),ACTIVE

Make permanent customizations and keep the rule past the next refresh using HZSPRMxx parmlib member

- Evaluate and update defaults based on current SYSSTC usage
- Used at IBM Health Checker for z/OS startup

Check reports for exceptions regularly

- Example output of successful rule check

### HZSPRMxx

```
ADDREPLACE POLICY[(policyname)] [STATEMENT(name)]
UPDATE
CHECK(IBMWLM,WLM_SCLASS_SYSSTC),
ACTIVE,
VERBOSE(NO),
INTERVAL(00:01),
SEVERITY(LOW),
PARM('THRESHOLD_LOW(10%),THRESHOLD_MED(20%),THRESHOLD_HIGH(30%)'),
DATE('date_of_the_change'),
REASON('Your reason for making the update')
```

### SDSF CK Panel Browse (S)

```
SDSF OUTPUT DISPLAY WLM_SCLASS_SYSSTC          LINE 0          COLUMNS 02
COMMAND INPUT ==>                                SCROLL ==>
***** TOP OF DATA *****
CHECK(IBMWLM,WLM_SCLASS_SYSSTC)
SYSPLEX:      SC02PLEX  SYSTEM: SC02
START TIME:  02/04/2026 16:36:11.812840
CHECK DATE:  20240425  CHECK SEVERITY: MEDIUM-DYNAMIC
CHECK PARM: THRESHOLD_LOW(10%), THRESHOLD_MED(20%), THRESHOLD_HIGH(30%)

IWMH103I CPU consumption in SYSSTC service class is 1%. The low
threshold of 10% is not reached. No action is required.

END TIME:  02/04/2026 16:36:11.812851  STATUS: SUCCESSFUL
```



# NEW SRB USE CASE WITH Z/OS 3.2 DYNAMIC I/O ACTIVATE

# New SRB Use Case for Dynamic I/O Activate

## SRB Enhancements

Boosts are:  1. Speed: subcap can run fullcap  2. zIIP: allowing workload onto zIIPs  On by default in IEASYSxx BOOST=SYSTEM	SMP/E FIXCAT IBM.Function.SystemRecoveryBoost <span style="float: right;">Updated 10 April 2025</span>											
	z16 and z17											
	z15			z16 and z17								
	System Recovery Boost			Recovery Process Boost* at MCL P46602.005 for IBM z15 Driver 41C (Bundle S29)					Recovery Process Boost*			
	IPL Startup	Standalone Dump (no zIIP boost)	Shutdown	Partitioning – planned or unplanned removal	CF Structure Recovery – rebuild or duplex	Recovery-disconnect or failure from locking resources	CF Datasaring Member Recovery-	Planned/Unplanned Hyper-Swap	SVC Dump	STC start/restart	HyperSwap configuration load	Dynamic I/O Activate
Intended Duration	60 min	60 min	30 min	2 min	1 min	1 min	2 min	2 min	5 min	2 min	2 min	
Basis of use	Auto	Auto	S IEASDBS	Auto	Auto	Auto	Auto	CHNGDUMP SET, SDUMP , RPBMINSZ threshold	WLM service definition BOOST attribute	Auto	Auto	
z/OS 2.3	PTF	PTF	PTF	PTF	PTF	PTF	PTF					
z/OS 2.4	PTF	PTF	PTF	PTF	PTF	PTF	PTF	PTF	PTF	PTF		
z/OS 2.5	PTF	PTF	PTF	PTF	PTF	PTF	PTF	PTF	PTF	PTF		
z/OS 3.1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	PTF	
z/OS 3.2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	

\*Recovery Process Boost limited to 30 min per day per LPAR in aggregate. In V2.4 and higher, can be enabled or disabled with S IEASRB, CLASS=RP, REQ=DISABLE|ENABLE

GDPS provides configuration and orchestration parallelization in GDPS V4R2 and higher.

## New SRB Use Case for Dynamic I/O Activate

- New system recovery boost for dynamic I/O activation
  - Classified as Recovery Process Boost
  - Duration of 2 minutes
- Enabled by default via the BOOST=SYSTEM parameter in IEASYSxx
  - Automatically triggered based on certain conditions and criteria to accelerator dynamic I/O activate processing
- Use the display command D IPLINFO,BOOST,STATE to verify active boosts
- Requirements:
  - z/OS 3.2
  - z/OS 3.1 with PTF OA66837



# SRM LOCK CONTENTION RELIEF

## SRM Lock Contention Relief

- Currently, SRM services and timed algorithms run concurrently
- Larger systems with large transaction volumes have significantly larger amounts of SRM lock contention
  - Especially true for systems with large enclave transaction volume
  - Prior to z/OS 3.2, multiple recommendations for increasing RMPTTOM value
- Algorithm is restructured and enclave code path is reduced, providing performance improvements for system overall
  - The larger the system, and the larger the enclave volume, the bigger the improvement will be
  - Significantly reduces CPU time for systems with high concurrent Db2 trx. processing

Workload Management Update for IBM Z and  
z/OS – SRM Lock Contention Relief and More  
Simon Flaig  
1:15pm

## Summary

- z/OSMF WLM Policy Advisor
- SYSSTC Health Checker Rule
- New SRB Use Case for Dynamic I/O Activate
- SRM Lock Contention Relief
- New SMF Records

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# APPENDIX

# APPENDIX A

## CPENABLE Default Change with z/OS 3.2

- Starting with z/OS 3.2, the default value for OPT parameter CPENABLE is changed from (0,0) to SYSTEM
- CPENABLE=SYSTEM automatically sets IBM recommended low and high thresholds according to the model of the CPC on which the LPAR is running
  - Recommendation for the past few generations is to set CPENABLE=(5,15) to limit the number of CPs handling interrupts
  - CPENABLE=SYSTEM as the default removes the need to have to update this parameter with hardware migrations as it will take the IBM recommended values
- Recommendation
  - If you were accepting the default of (0,0) in the past to enable all CPs for I/O interrupts, prepare for the z/OS 3.2 change by setting CPENABLE=SYSTEM
  - If you had installation specific requirements for having all CPs handle interrupts, be sure to explicitly set it as it is no longer the default

# APPENDIX B

## New and changed SMF fields for z/OS 3.2

### Of performance note:

- New fields provided in SMF 30 to allow instrumentation on the high-water mark of virtual private memory usage
  - SMF30\_HWMMemlimitMb is added to Storage and Paging section of SMF30
  - Issue before: Lack of instrumentation for the maximum amount of high virtual memory charged against the MEMLIMIT makes it difficult to assess an appropriate value for the MEMLIMIT
- APAR OA67892: <https://www.ibm.com/support/pages/apar/OA67892>

Table 1. New and changed System Management Facilities (SMF) records for z/OS 3.2

SMF record	z/OS element or feature	Description	Documented in
Type 30	MVS	<ul style="list-style-type: none"> <li>– Bit 6 in the SMF30_RAXFLAGS field is now defined in the Storage and Paging section.</li> <li>– The SMF30_HWMMemlimitMb field is added in the Storage and paging section. The record level in SMF30RLN is changed to X'1E0'.</li> </ul>	MVS
Type 72 subtype 3	MVS	<ul style="list-style-type: none"> <li>– The R723RST2G field is added at offset 816 in the Service/report class period data section. The subtype 3 record level indicator in the SMF72SRL field changes to X'90'.</li> </ul>	MVS
Type 74 subtype 5	MVS	<ul style="list-style-type: none"> <li>– The R7451CT7 field is added at offset 84 (formerly reserved space) in the RAID Rank/Extend Pool Data section.</li> </ul>	MVS
Type 74 subtype 8	MVS	<ul style="list-style-type: none"> <li>– Three new fields are added starting at offset 104 in the Synchronous I/O Link Statistics section. The subtype 8 record level changes to X'90'.</li> </ul>	MVS
Type 88 subtype 1	MVS	<ul style="list-style-type: none"> <li>– The descriptions of the SMF88LIB and SMF88LAB fields are updated in the Log stream section.</li> <li>– The SMF88LTDE field is added in the Log stream section.</li> </ul>	MVS
Type 88 subtype 11	MVS	<ul style="list-style-type: none"> <li>– The SMF88ATKE field is added in the Structure alter section.</li> </ul>	MVS
⌊ Type 119, TCP/IP profile record (subtype 4) ⌋	Communications Server	<p>This flag indicates that AIASSIST BATCHOUTBOUND has been configured on the GLOBALCONFIG statement of the TCP/IP profile, and the TCP/IP instance will begin recording training data for the AI model.</p> <p><b>Reason for change:</b> AI-powered Network outbound packet batching</p>	Communications Server
Type 1157–1161	z/OS Data Gatherer	<ul style="list-style-type: none"> <li>– New record types to support the z/OS OpenTelemetry Emitter. (APAR OA66345, which also applies to z/OS 3.1)</li> </ul>	MVS

# APPENDIX C

## SRB Enhancements for Transient zIIP Processing

- In installations with reserved zIIPs defined for an LPAR, those zIIPs are brought online at the start of a zIIP boost period to provide additional capacity and parallelism, and are taken offline after the boost ends
- With OA66837, if any zIIPs the boost brought online explicitly (transient zIIPs) are later configured online, they will become a normal zIIP and remain online after the end of the boost period
  - For recovery process boosts, at most two logical zIIPs can be brought online this way
  - [https://www.ibm.com/docs/en/SSLTBW\\_3.2.0/pdf/izsb100\\_v3r2.pdf](https://www.ibm.com/docs/en/SSLTBW_3.2.0/pdf/izsb100_v3r2.pdf)