### z/OS V2.5 IBM Education Assistant

Solution Name: RMF CF Monopolization Avoidance Support

Solution Element(s): RMF



### Agenda

- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
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### Trademarks

- See url <a href="http://www.ibm.com/legal/copytrade.shtml">http://www.ibm.com/legal/copytrade.shtml</a> for a list of trademarks.
- Additional Trademarks:
  - None

### Objectives

- Explain purpose/usage of RMF deliverable
  - RMF online monitoring with Monitor III and Distributed Data Server (DDS)
    - Introduce the new Monitor III reporting capabilities related to CF Monopolization Avoidance
    - Introduce the new DDS reporting capabilities related to CF Monopolization Avoidance
  - RMF Postprocessor
    - Introduce the new Postprocessor reporting capabilities related to CF Monopolization Avoidance.

### Overview

- Who (Audience)
  - z/OS Performance Analysts
- What (Solution)
  - Introduce new Monitor III and Postprocessor measurements to monitor Coupling Facility delays due to Monopolization Avoidance.
- Wow (Benefit / Value, Need Addressed)
  - RMF online monitoring with Monitor III and Distributed Data Server:
    - Used to monitor Coupling Facility delays due to Task Monopolization Avoidance
  - RMF Postprocessor reporting:
    - Used to monitor Coupling Facility delays due to Task Monopolization Avoidance

## Usage & Invocation

#### Monitor III CFACT report

New fields for use with User Reports of CF Monopolization Avoidance measurements

#### **CFACT - Tabular report data table ERBCFAT3**

RMF builds ERBCFAT3 when using CFACT as a report type.

Name	Туре	Meaning	Report
CFADTLLN	К	Logical line number	-
CFADTPSN	К	Sequence number	-
CFAPSTRU	N	Structure name	Yes
CFAPTYPE	N	Structure type	Yes

.

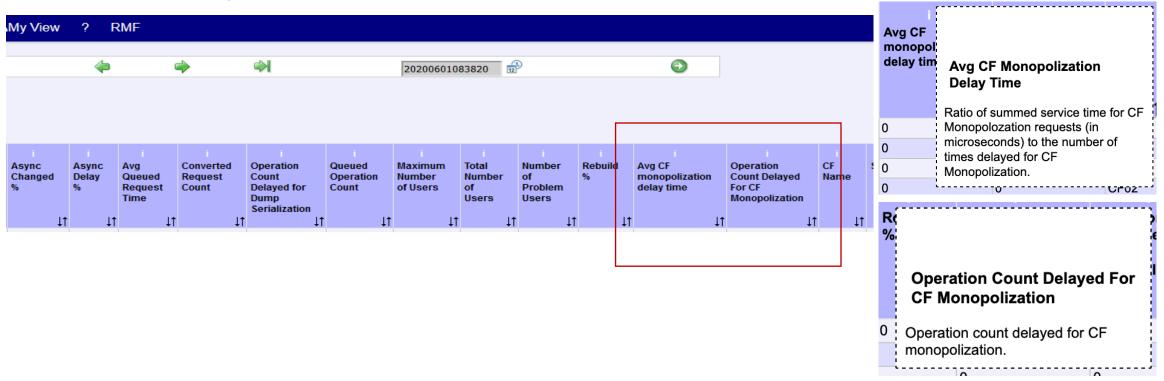
CFAPMONC	N	Operation count delayed for CF monopolization	Util	
CFAPMQRT	N	Average CF monopolization delay time	Util	

### Usage & Invocation

#### RMF DDS Structure Activity for the CFACT Report Support

 The browser-based version of CFACT report can be requested from the RMF Distributed Data Server (DDS) using the following URL:

http://hostname:8803/gpm/rmfm3.xml?report=CFACT&resource=%22,,SYSPLEX%22



# Usage & Invocation

#### Commands:

• RMF Postprocessor CF report:

				C 0	UPLI	NG FA	ILIT	Υ /	A C T I	VITY			PAGE	12
z/05 1											INTERV CYCLE		00	12
COUPLING	FACILITY	NAME = C	F01		COUPLI	NG FACILI	TY STRUC	TURE	ACTIVI	TY				
STRUCTURE	NAME = S	STRUCT01		TYPE	= LIST	STATUS = /	ACTIVE		- DELAY	ENCRYI	PTED = NO STS			
SYSTEM NAME	T0TAL		#	% OF	-SERV TI	ME(MIC)- STD_DEV	REASON	#	% OF	AV0	STD_DEV			
SYS1	0 0.00	SYNC ASYNC CHNGD SUPPR	0 0 0	0.0 0.0 0.0	0.0	0.0 0.0 IN ASYNC	NO SCH PR WT PR CMP DUMP MONOP	0 0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		
SYS2	0 0.00	SYNC ASYNC CHNGD SUPPR	0 0 0	0.0 0.0 0.0	0.0 0.0 INCLUDED	0.0	NO SCH PR WT PR CMP DUMP MONOP	0 0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		
SYS3	0 0.00	SYNC ASYNC CHNGD SUPPR	0 0 0	0.0 0.0 0.0	0.0 0.0 INCLUDED	0.0	NO SCH PR WT PR CMP DUMP MONOP	0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		
TOTAL	0 0.00	SYNC ASYNC CHNGD SUPPR	0 0 0 0	0.0 0.0 0.0 0.0	0.0 0.0		NO SCH PR WT PR CMP DUMP MONOP	0 0 0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0		

### Interactions & Dependencies

- Software Dependencies
  - None
- Hardware Dependencies
  - CFCC monopolization of CF tasks avoidance made available on the z15 GA1 machine.
- Exploiters
  - None.

## Upgrade & Coexistence Considerations

• None.

## Installation & Configuration

• This support is included in the GA shipment of the z/OS V2.5 RMF (HRM77D0) deliverable.

### Summary

- Introduced new SMF Type 74 Subtype 4 Coupling Facility Monopolization Avoidance measurements.
- Introduced enhanced CF Structure Activity report section of the Postprocessor CF Activity report.
- Introduced new Monitor III hidden fields of the CFACT report.
- Introduced new CFACT report fields displayed in the RMF Data Portal.
- Introduced new performance metrics displayed in RMF PM client, z/OSMF RM Plugin, and RMF Data Portal.

### **Appendix**

- RMF https://github.com/IBM/IBM-Z-zOS/tree/master/zOS-RMF
  - Contains Product information, presentations, etc.
- Documentation and news
  - RMF Report Analysis, SC34-2665
  - RMF User's Guide, SC34-2664
  - RMF Programmer's Guide, SC34-2667
  - Latest version of PDF files can be downloaded from: <a href="http://www.ibm.com/systems/z/os/zos/bkserv/">http://www.ibm.com/systems/z/os/zos/bkserv/</a>