z/OS V2.5 IBM Education Assistant

Solution Name: System Recovery Boost

Solution Element(s): RMF

July 2021



Agenda

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

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

Objectives

- Explain purpose/usage of RMF updates
 - RMF Postprocessor
 - Introduce the new Boost Class for the CPU Activity Report
 - Introduce the new Boost Class for the WLM Activity Report

Overview

- Who (Audience)
 - z/OS Performance Analysts and System Programmers
- What (Solution)
 - Introduce new Postprocessor System Recovery Boost reporting.
- Wow (Benefit / Value, Need Addressed)
 - RMF Postprocessor reporting:
 - Provide the capability to identify when System Recovery Boost was enabled to provide additional CPU capacity.

Usage & Invocation

RMF Postprocessor CPU Activity Report (CPU)

1						C B II	A C T T	VITV				
1						CPU.	ACTI	VIII				Р
		z/05 V2I	R5	SYSTEM I	D SYS1		START	03/02/26	921-21.	44.33 I	NTERVAL 000.15	
				RPT VERS	ION V2R5	RMF	END	03/02/26	21-21.	59.33 C	YCLE 1.000 SEC	ONDS
-CPU		8561 CI	PC CAPACITY 3	084 SI	EQUENCE C	ODE 0000	00000003	E968				
MODE	L	717		H:	IPERDISPA	TCH=YES						
H/W	MODEL	T01 CI	HANGE REASON=N	ONE B	OOST TYPE	=Speed	B00	ST CLASS	=Recov	ery		
۵ .	DII		TIM	E &		мт	•	LOC BE	200	T /0	INTERRUPTS	
	TYPE	ONLINE	LPAR BUSY	MVS BUSY	PARKED	PROD		SHARE		RATE	% VIA TPI	
0	CP	100.00	31.10	31.61	0.00		31.10	50.1		3505	4.76	
1	CP	100.00	15.31	15.74			15.31	50.1		0.00	0.00	
2	CP	100.00	0.00	3.51	99.77	100.00			LOW	0.00	0.00	
3	CP	100.00	0.00	3.31	100.00	100.00			LOW	0.00	0.00	
4	CP	100.00	0.00		100.00	100.00			LOW	0.00	0.00	
	L/AVER		9.28	23.66	100.00	100.00		100.2		3505	4.76	
9 5	IIP	100.00	63.29	47.19	0.00		56.80	57.2		3303	*****	
				30.43	0.00							
6	IIP	100.00	42.76	32.47	0.00	93.95	40.17	57.2	MED			
				15.78	0.00							
7	IIP	100.00	0.00		100.00	90.92	0.00	0.0	LOW			
					100.00							
8	IIP	100.00	0.00		100.00	90.92	0.00	0.0	LOW			
					100.00							
9	IIP	100.00	0.00		100.00	90.92	0.00	0.0	LOW			
					100.00							
Α	IIP	100.00	0.00		100.00	90.92	0.00	0.0	LOW			
					100.00							
T0TA	L/AVER	AGE	17.68	31.47		91.23	16.16	114.4				
9		MULTI-	THREADING ANAL	YSIS								
CPU	TYPE	MODE	MAX CF	CF	AVG TD							
	CP	1	1.000	1.000	1.000							
	IIP	2	1.123	1.022	1.182							

Usage & Invocation

RMF Postprocessor WLM Activity Report

```
WORKLOAD
                                                                ACTIVITY
                                                                                                                   PAGE
       z/05 V2R5
                              SYSPLEX SYSPLEX1
                                                         START 03/02/2021-21.59.33 INTERVAL 001.00.00
                                                                                                      MODE = GOAL
                         CONVERTED TO z/OS V2R5 RMF
                                                              03/02/2021-22.59.33
                                        POLICY ACTIVATION DATE/TIME 02/23/2021 09.24.27
                                                    - SERVICE POLICY PAGE -
SERVICE DEFINITION: Policy01 Policy WLM Policy
                                                                   -SERVICE DEFINITION COEFFICIENTS-
                                                                                                      -NORM FACTORS-
 INSTALL DATE: 02/23/2021 09.24.20 INSTALLED BY: TS5367
                                                                        IOC
                                                                                CPU
                                                                                       SRB
                                                                                               MSO
                                                                                                         AAP
                                                                                                                 IIP
 POLICY: POLICY01 Policy Software Policy 01
 DISCRETIONARY GOAL MANAGEMENT: NO
                                                                       0.0
                                                                               1.0
                                                                                      1.0 0.0000
                                                                                                     1.0000 1.0000
 DYNAMIC ALIAS MANAGEMENT: YES
 I/O PRIORITY MANAGEMENT: YES
SYSTEMS
 ---ID---
          OPT SU/SEC CAP% --TIME-- INTERVAL
                                                --B00ST--
                                                            ---ID---
                                                                         SU/SEC CAP% --TIME-- INTERVAL
                                                                                                          --B00ST--
 SYS1
            RS 91954.0 100 21.59.33 00.59.59
                                                Recovery
                                                            SYS5
                                                                         91954.0 100 21.59.33 00.59.59
                                                                                                          Recovery
 SYS2
            RS 91954.0 100 22.44.33 00.14.59
                                                            SYS6
                                                Recovery
                                                                          95808.4 100 21.59.33 00.59.59
                                                                                                          Recovery
 SYS3
            RS 91954.0 100 21.59.33 00.59.59
                                                            SYS7
                                                                         91954.0 100 21.59.33 01.00.00
                                                Recovery
                                                                                                          Recovery
```

Interactions & Dependencies

- Software Dependencies
 - None
- Hardware Dependencies
 - None
- 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

• Introduce new System Boost class: RECOVERY.

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: http://www.ibm.com/systems/z/os/zos/bkserv/