z/OS V2.5 IBM Education Assistant

Solution Name: z/OS USS Change the LIMMSG default to SYSTEM

Solution Element(s): z/OS UNIX System Services





Agenda

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Trademarks

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

Objectives

Explain the LIMMSG parmlib option and why the default was changed from NONE to SYSTEM

Overview

- Who (Audience)
 - System Programmers
- What (Solution)
 - Change the default for parmlib option LIMMSG from NONE to SYSTEM
- Wow (Benefit / Value, Need Addressed)
 - Monitor system resource usage to detect potential issues before they occur

Usage & Invocation

- The parmlib option LIMMSG default was changed from NONE to SYSTEM
- LIMMSG function

Option LIMMSG indicates if messages should be issued when certain system and or process level limits are reached. It allows customers to see when certain resources are starting to reach high levels and act upon the issue prior to function failure.

LIMMSG(NONE|SYSTEM|ALL)

NONE – no messages are issued when limits are reached

SYSTEM – messages will be issued once a system limit reaches 85% and higher.

Also, messages will be issued for process limits that are explicitly set for a process instead of using the process limit set by the parmlib option.

For example:

PROCESS A threads are limited by USS parmlib option MAXTHREADS

PROCESS B has a value set for MAXTHREADS in the USP

When LIMMSG is set to SYSTEM, messages will be issued for PROCESS B but not PROCESS A

ALL – messages will be issued when any system or process limit is set

Changing the default to SYSTEM will detect issues before the customer sees an actual problem

A customer will see warning messages indicating certain system resources are reaching a high level

BPXI039I SYSTEM LIMIT resource-name HAS REACHED xxx% OF ITS CURRENT CAPACITY OF y

Interactions & Dependencies

- Software Dependencies None
- Hardware Dependencies None
- Exploiters N/A

Upgrade & Coexistence Considerations

- To exploit this solution
 - allow LIMMSG to default to SYSTEM
 - Update your USS parmlib member BPXPRMxx to either remove the LIMSG setting or to specifically set it to SYSTEM
- Toleration/coexistence APARs/PTFs N/A
- If you do not want to run with LIMMSG set to SYSTEM
 - Update your USS parmlib member BPXPRMxx and set LIMMSG to NONE or to PROCESS

Coexistence – N/A

Installation & Configuration

USS Parmlib option LIMMSG must be allowed to default to SYSTEM or must be set to SYSTEM

Summary

 Setting LIMMSG to SYSTEM will detect potential issues with USS resource shortages before they occur.

Appendix

- Publications
 - MVS System Commands
 - MVS Initialization and Tuning Reference
 - z/OS Infoprint Server Customization
 - z/OS Upgrade Workflow