IBM Education Assistance for z/OS V2R2

Item: Dynamic Exits enhancements
Element/Component: BCP Contents Supervisor (CSV)

Material current as of May 2015

Agenda

- Trademarks
- Presentation Objectives
- Overview
- Usage & Invocation
- Presentation Summary
- Appendix

Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.

Presentation Objectives

- Understand the enhancements to dynamic exits services

Overview

- Problem Statement / Need Addressed
  - Exit routines need more control over the events they can get control for
  - Exit CALL cannot be done disabled. This can inhibit exploitation in such areas as SRM.
- Solution (via CSVDYNEX, SETPROG, PROGxx)
  - Provide a mask function
  - Provide capability for disabled exit call
- Benefit / Value
  - Improved usability

Usage & Invocation – ServiceID and ServiceMask

- ServiceID: 8-byte indicator of which “service” this call or query is being made for. For example x'0000000100000000'.
- ServiceMask: 8-byte indicator of which services this exit routine wants to be called for
- ServiceID of the CALL (or QUERY) is ANDed with the ServiceMask of the exit routine. When non-zero, the CALL (or QUERY) proceeds

Usage & Invocation – CSVDYNEX

- Request=CALL,ServiceID=si
  - Call if exit routine's ServiceMask matches
- Request=QUERY,QType=CALL,ServiceID=si
  - Match if exit routine's ServiceMask matches
- Request=ADD,ServiceMask=sm
  - Identify the ServiceMask
- Request=MODIFY,ServiceMask=sm
  - Update the ServiceMask
- Request=REPLACE,ServiceMask=sm
  - Replace the ServiceMask

Usage & Invocation – CSVDYNEX

- Request=LIST,EXAAVER=3
  - Returns extra info such as ServiceID and ServiceMask
- Request=DEFINE,FASTPATH=YES,DisabledCall=OK
  - When FASTPATH=YES, exit routines may be called disabled. Exit routines must be page-fixed. Exit control blocks must be page-fixed
- Request=ADD,DeleteForce=NO | YES
  - Deletion of this exit routine requires the use of FORCE=YES (so cannot be done accidentally just with DELETE)

Usage & Invocation – SETPROG and PROGxx

- EXIT ADD SERVICEMASK(sm)
  - Analog of CSVDYNEX
  - “sm” is “x1” or “x1,x2”
  - “x1” represents bytes 0-3 of the mask
  - “x2” is bytes 4-7
  - Specified in hex. E.g., SERVICEMASK=7F would produce 0000007F_00000000
- EXIT REPLACE SERVICEMASK(sm)
  - Analog of CSVDYNEX
- EXIT ADD DELFORCE(NO | YES)
  - Analog of CSVDYNEX

Usage & Invocation – Exit CSVDYNEX

- A system exit is provided named CSVDYNEX by which an exit routine can listen for exit routine updates (presumably to exits owned by the exit routine owner)
- Gets control when the system processes a dynamic exits services Add, Modify, Replace, or Delete request
- Exit routine must be reentrant and AMODE 31.
- Input: a copy of the CSVDYNEX parameter list being used.

Presentation Summary

- Dynamic Exits enhancements via CSVDYNEX, SETPROG, PROGxx
  - ServiceID and ServiceMask
  - CSVDYNEX exit

Appendix

- Publications:
  - z/OS MVS Programming: Authorized Assembler Services Reference
  - z/OS MVS System Commands
  - z/OS MVS Initialization and Tuning Reference