IBM Education Assistance for z/OS V2R1

Item: CSV Miscellany
Element/Component: BCP Contents Supervisor

Agenda

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Trademarks

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

Presentation Objectives

Describe CSV changes with respect to

- TrackDirLoad

- CSV540E message

- PageFrameSize1M

- Additional EXAA information

Overview

- Problems:
  - Hardware Instrumentation Services module mapping needs information about load-with-address ("directed load")
  - CSV540I might not be noticed
  - Modules might take advantage of 1M page frames
  - Dynamic exits exploiters cannot access some parameter settings

- Solution:
  - PROGxx TrackDirLoad option
  - Change to CSV540E
  - PageFrameSize1M
  - Provide access to additional dynamic exits data

- Benefit / Value:
  - Improved usability
  - Exploit hardware for performance

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Usage & Invocation (TrackDirLoad)

- It helps Hardware Instrumentation Service's module map to have information about modules that are loaded with address ("directed load"). The TrackDirLoad/NoTrackDirLoad parameter of PROGxx identifies whether or not to track direct loads.

- Prior to z/OS 2.1: Defaults to NoTrackDirload

- As of z/OS 2.1: Defaults to TrackDirLoad

- It is not expected that the extra processing of "TrackDirLoad" will be noticed.

Usage & Invocation (CSV540E)

- For any LNKLST, there is a requirement that the data sets be cataloged such that LLA can locate them. It is allowed (particularly at IPL) to identify the data set by name and volume, to avoid master catalog update. Subsequent processing validates the information but must let things proceed, issuing a message for the situation. This is
CSV540I LNKLST SET s IS IN ERROR
DATA SET d HAS A VOLUME ID THAT DOES NOT MATCH THE CATALOG

- There are other CSV540I variants as well. But because it is an "I" message it might not be noticed, and the system will not behave as expected/desired

- This is changed to CSV540E with Routing codes 2,10 and Descriptor code 11. Note – the message is not DOM'd

Usage & Invocation (Dynamic exit data)

- CSVDYNEX REQUEST=QUERY returns data mapped by macro CSVEXAA.

- The following additional information is now presented
    - Whether "consecutive abend" support is in effect for a given exit routine
    - The ABENDNUM parameter associated with the exit routine
    - The number of abends left before the exit routine will be disabled

Usage & Invocation (Page Frame Size 1M)

- Modules may get benefit from using 1M frames to back them (for the same reason that applies to data, such as reduced Translation Lookaside Buffer misses)

- An authorized application (such as DB2) can indicate that all of its (PDSE) program objects (not load modules) be backed by 1M frames.

- Bit ASCBPO1M: the RMODE 31 portion of program objects is to be backed by 1M pages (when available). The bit is reset at jobstep start. It applies only to modules loaded into private storage.

- Bit ASCBP1M0: similar, but applies only when the module will be placed into key 0 (subpool 252) storage.

Interactions & Dependencies

- Software Dependencies
  - None

- Hardware Dependencies
  - None

- Exploiters
  - DB2 may exploit the PageFrameSize 1M support

Appendix

- Publications:
  - MVS Initialization and Tuning Guide SA23-1380-00