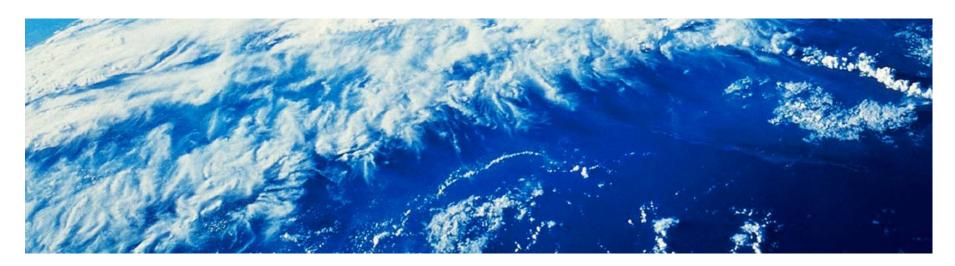# IBM Education Assistance for z/OS V2R2

Item: IDCAMS Small Enhancements
         IDCAMS RAS Enhancements

Element/Component: IDCAMS

Agenda

- Trademarks

- Presentation Objectives

- Overview

- Usage & Invocation

- Presentation Summary

- Appendix

Presentation Objectives

- Understand what the IDCAMS small enhancements and RAS items are and learn how to use them.

Overview

- Problem Statement / Need Addressed
  - 1. For DIAGNOSE, when the VVR RBA pointer in the catalog record is invalid, DIAGNOSE returns an error
  - 2. IDCAMS PARM(TEST) - IDCAMS PARM(TEST) processing does not support 31bit addressing
  - 3. REPRO MERGECAT output is too long
  - 4. TSO LISTCAT adds userid as PREFIX for LEVEL and ENTRY
  - 5. PRINT and REPRO functions cannot process damaged VSAM CIs or records

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Overview (cont)

- Solution
    - 1. Redrive VVR search
    - 2. Move PARM(TEST) above the line
    - 3. Add MESSAGELEVEL keyword to REPRO
    - 4. Add NOPREFIX keyword to LISTCAT
    - 5. Add CIMODE keyword to PRINT and REPRO

- Benefit / Value
    - 1. Better more accurate info from DIAGNOSE reporting
    - 2. Constraint relief
    - 3. Less output
    - 4. Consistency between TSO and batch LISTCAT processing
    - 5. Allow for processing if CI or VSAM record is damaged

Usage & Invocation

- 1. DIAGNOSE VVR search redrive
    - Catalog record has RBA pointer into VVDS to quickly access the VVR/NVR associated with the catalog entry
    - Sometimes VVR/NVRs are moved and the RBAs in the Catalog records are no longer valid
        - Catalog Management identifies this condition and updates the catalog record when the condition is detected
        - Catalog Management must do a sequential search of the VVDS in order to re-establish the RBA
        - DIAGNOSE, on the other hand, reports a "not found" for the VVDS entry
    - DIAGNOSE is enhanced to perform the sequential VVDS search
    - There are no externals – user does not have to do anything to invoke the new search

Usage & Invocation (cont)

- 2. IDCAMS PARM(TEST) - does not support 31 bit addressing
    - PARM(TEST) processing and work areas are moved above the line
    - There is no user action for this enhancement

Usage & Invocation (cont)

- 3. REPRO MERGECAT is too long
    - REPRO MERGECAT currently produces up to 6 lines for each entry that is processed; one blank line, one or two for the IDC0639I message(Sphere conversion started), a blank line, and one or two for the IDC01402I (Sphere conversion ended). The one or two lines depend on the length of the dataset name.
    - New keyword MESSAGELEVEL(ALL|SHORT)
        - All is the default and is the same as the current output
        - SHORT reduces the number of lines for each entry
    - Example:
    REPRO INDATASET(SMSCAT) OUTDATASET(SMSCAT1) -
    MERGECAT MESSAGELEVEL(SHORT) FILE(DD1)

Usage & Invocation (cont)

- 4. TSO LISTCAT adds userid as PREFIX for LEVEL and ENTRY
  - New keyword NOPREFIX causes userid to not be added to ENTRY name or LEVEL specification
  - PREFIX is the default
  - Example:
    LISTCAT ENTRY(A.B.C) NOPREFIX
        searches the catalog for A.B.C

    LISTCAT ENTRY(A.B.C) PREFIX

        searches the catalog for userid.A.B.C

Usage & Invocation (cont)

- **5. PRINT and REPRO functions cannot process damaged VSAM CIs or records**
    - New keyword CIMODE
    - PRINTs or REPROs by CI rather than by record
    - Opens VSAM data set in CIMODE
    - Primarily for use with ESDS, but could be used to access a KSDS data component directly.
    - CIMODE can only be specified with keyword INFILE, INDATASET, ERRORLIMIT, FROMADDRESS, SKIP, TOADDRESS, COUNT, NOMERGECAT, NOREPLACE and NOREUSE
    - NOCIMODE is the default
    - Example:
      PRINT INDATASET(SMS.ESDS) CIMODE

Presentation Summary

- IDCAMS has added several new functions driven by client requirements that improve DIAGNOSE reporting, provide PARM(TEST) constraint relief, reduce REPRO MERGECAT messages, makes batch and TSO LISTCAT processing more similar, and allows processing for PRINT and REPRO in CIMODE.

Appendix

- Manuals
  - DFSMS Access Method Services – SC23-6846-02

- Terminology
  - RBA – Relative byte address
  - CI – Control Interval
  - VVR – VSAM volume Record
  - NVR – NonVSAM Volume Record