IBM Education Assistance for z/OS V2R1

Item: Spool Delete
Element/Component: JES3

Agenda

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- Overview

- Usage & Invocation

- Migration & Coexistence Considerations

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Trademarks

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

Presentation Objectives

- Describe JES3 Dynamic Spool Delete Function

IBM

Overview

Problem:

Warm start is required to delete (remove) a spool extent

Disrupts all systems in the JESPlex

Solution:

Allow spool extents to be deleted via *F CONFIG command

Alternatively allow spool extents to be deleted via Hotstart with refresh

Benefit / Value:

Eliminates complex-wide IPL when deleting a spool

Usage & Invocation

- Customer drains the spool via the *MODIFY Q,DD=ddname,DRAIN command

- Customer sets up a new member with all JSAM definitions (w/o the spool to be deleted)
  - Starting with DYNALLOC statements
  - Ending with ENDJSAM

- Customer sets up a new inish deck with an INCLUDE statement pulling in the JSAM member

- Customer performs a H/R with the new inish deck

- Or issues the *MODIFY CONFIG,M= with the new JSAM member

Usage & Invocation - continued

JES3 actions:

- When the operator issues *MODIFY Q,DD=ddname,DRAIN, JES3 moves the STT records to a different location as part of the command
  - New user exit – IATUX73 - is provided for unidentifiable (i.e. not JES3) STT records
    - Processing may be required by non-JES3 code that created STT records

Usage & Invocation - continued

STT Management

- STT extents are freed dynamically when empty
  - Except when pre-defined

- STT buffers are compressed when STT extents are removed

Usage & Invocation - continued

JES3 Spool Delete actions:

- JES3 parses the statements and compares them to the current configuration

- JES3 flags the extent as deleted

- JES3 flags deleted partitions as deleted

- The full set of DYNALLOC statements for non-spool data sets must be included
  - JES3 will fail the dynamic change if statements are changed

- Best practice: Separate the JSAM inish statements into a new member that is INCLUDEd from the main inish stream

Usage & Invocation - continued

JES3 Spool Delete actions:

- JES3 verifies no data resides on the deleted extents
  - Hot/Refresh terminated if jobs found on the extent
  - For *F CONFIG, WTOR issued for every job/DSP still on the spool
  - Operator has the choice to cancel the job/DSP or the whole operation
    - Cancel subject to *F J=nn,C limitations (e.g. started tasks)
  - Job data are not moved
  - Some job control blocks are moved: Syslog, Active DSPs

Usage & Invocation - continued

JES3 Spool Delete actions:

- Syslog Processing
  - WRITELOG command issued
    - **ROUTE main,WRITELOG**
    - It is up to the customer to process the output and purge the spool space
  - JESLOG data spun off
    - ***F J=nnn,SPIN**
    - Allows JESMSGLG & JESYSMSG data to be offloaded

- Multiple passes made until no data is found on the extent

- Changes are committed if the extent is empty and no errors are found

Migration & Coexistence Considerations

- The function is requested via *MODIFY CONFIG command or via Hotstart with refresh.

- All systems must be at V2R1 JES3 level or higher.

- APAR OA36848 is required on V1R13 JES3 local.

- If a lower-level system is found, existing WTOs IAT3426 and IAT2061 followed by WTOR IAT2064 will be issued. JES3 waits until the operator either resets the down-level systems or cancels the request by responding to the WTOR.

- Systems at V1R12 level or lower will then have to re-IPL before they can connect.

Migration & Coexistence Considerations

- SDI (spool data integrity) no longer optional

- Keyword SDI removed from:
    - OPTIONS statement in the inish deck
    - *INQUIRY Q command
    - *MODIFY Q command

Appendix

- Publications:
  - SA32-1003 JES3 Initialization and Tuning Guide
  - SA32-1008 JES3 Commands
  - SA32-1007 JES3 Messages
  - GA32-1009 JES3 Diagnosis Reference
  - SA32-1006 JES3 Customization