IBM Education Assistant

JES2 Disk Reader Support

Agenda

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Trademarks

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

Session Objectives

- Understand the new JES2 function similar to the JES3 Disk Reader
  - Supports copying a member from a predefined concatenation to an internal reader
    - Pass the records in the member to JES2 input processing
  - New logical concatenation of PDSs, PDSEs and z/OS UNIX directories used as source of members
  - Command to set defaults for members copied
  - Command to actually read the member and copy it to the internal reader

Overview

- Who (Audience)
  - All JES2 installations and any installation converting from JES3 to JES2
- What (Solution)
  - New way to get batch jobs or commands passed to JES2
- Wow (Benefit / Value, Need Addressed)
  - Allows JCL to be submitted to JES2 from a partitioned concatenation without having to log on to TSO, submit a job, or run a started task

Usage & Invocation

- There are 3 new concepts created with this support
  - A new concatenation SUBMITLIB that is the source of members
    - Implemented using common code from PROCLIB
    - Supports multiple concatenation – SUBMITLIB(TEST) or SUBMITLIB(PROD), etc
    - Not supported in JES2 start PROC
  - A new statement SUBMITRDR to define defaults for the input device
    - Similar to the INTRDR statement
    - Defines default SUBMITLIB to read members from
  - A new command $SUBMIT that actually reads the members and passes them to INPUT processing
    - Supports any member format or content that the internal reader supports
- Together these provide the same function as the JES3 disk reader DSP

Usage & Invocation

- New SUBMITLIB statement patterned after PROCLIB statement

```
SUBMITLIB(ddname)  DD(n)=(DSName=name,[VOLser=volume,UNIT=unit])
                   DD(n)=(PATH=pathname)
                   CONDitional|UNCONDitional
```

- Initialization statement, $ADD, $DEL, $T, and $D commands
  - Alias SUBLIB
- If DSN= is coded:
  - Can be a PDS or PDSE
  - Supports any LRECL or RECFM supported by internal reader
- If PATH= is coded:
  - Code the name of the directory, not a file
  - The files names in the directory must match member name rules
    - 1-8 upper case characters
  - PATH= allocation is done with FILEDATA=TEXT option

Usage & Invocation

- New SUBMITRDR statement patterned after INTRDR statement

```
SUBMITRDR AUTH=(DEVICE=YES|NO,JOB=YES|NO,SYSTEM=YES|NO)
          CLASS=jobclass,DD_DEFAULT=ddname,HOLD=YES|NO,
          PRTYINC=nn,PRTYLIM=nn,SYSAFF=(affinity_list),
          TRACE=YES|NO
```

- Initialization statement, $T and $D command
  - Alias SUBRDR
- DD_DEFAULT is the default SUBMITLIB used by the $SUBMIT command
  - Default SUBMITLIB checked for $T command but not initialization statement
  - Validated when $SUBMIT command processed
- Applied when internal reader (submit reader) allocated

Usage & Invocation

- New $SUBMIT command

`$SUBMIT DDname=`*`name`*`,MEMBER=`*`member`*`,HOLD=YES|NO`

  - DDname= is the SUBMITLIB statement to read from
  - MEMBer= (or M= or MEMB=) is the member to read and copy to SUBMIT RDR
  - HOLD= overrides the HOLD= value on the SUBMITRDR statement
    - Holds jobs after conversion
- Request is queued to a subtask for processing
  - Command processor just detects basic syntax errors
    - Verifies SUBMITLIB name exists
  - Member existence checked in subtask
  - One $SUBMIT at a time
    - Second $SUBMIT will fail until 1st completes writing to the submit rdr

Usage & Invocation

- JES3 parameters not supported by $SUBMIT
  - IN= – device group for output
  - B= – batch job size (in terms of job)
  - H/HN – control-card processor hold (will be able to hold the jobs submitted)
  - J= – name of jobs in the member of where to start processing
  - JOBS= – number of jobs to process from the member
  - K/KN – keep reader after hitting EOF
  - P= – Priority of the control-card processor
  - PARMID= – Set of C/I options
- Most do not apply in a JES2 environment
- Ability to select jobs to submit (B=, J=, JOBS=) was not implemented
  - JES3 customers talked to did not use these functions

Usage & Invocation

- Security for jobs submitted is based on command source
- Command from a standard MCS console (not logged on)
  - Processing like JES3, treated using card reader rules (SESSION=EXTBATCH)
  - No userid propagation
- Command from a logged in console, TSO user, etc
  - Processed as if logged in user submitted the job (SESSION=INTBATCH)
  - Propagation is allowed (based on RACF rules)

Interactions & Dependencies

- To exploit this item, all systems in the Plex must be at the new z/OS level: No

- Software Dependencies
  - None
- Hardware Dependencies
  - None
- Exploiters
  - None

Migration & Coexistence Considerations

- From JES2 z/OS 2.2 or z/OS 2.3
  - APAR OA53860 needed on z/OS 2.2 or z/OS 2.3 member to coexist in a MAS with z/OS 2.4
  - APAR OA53860 is also highly recommended for fall back
  - Some new data structures created by z/OS 2.4 JES2 may result in problems if OA53860 is not installed.
- Exits for an internal reader will be called (as normal)
  - Calls made out of the JES2 address space (in a subtask)
    - JES2 had code that checked address space to make processing decision
  - All indicators look as if job was processed by an internal reader

Installation

- Ensure that the SUBMITLIB is set up before using $SUBMIT

Appendix

- Publications
  - z/OS V2R4.0 JES Application Programming – SA32-0987-40
  - z/OS V2R4.0 JES2 Commands – SA32-0990-40
  - Z/OS V2R4.0 JES2 Diagnosis - GA32-0993-40
  - z/OS V2R4.0 JES2 Initialization and Tuning Guide – SA32-0991-40
  - z/OS V2R4.0 JES2 Initialization and Tuning Reference – SA32-0992-40
  - z/OS V2R4.0 JES2 Installation Exits – SA32-0995-40
  - z/OS V2R4.0 JES2 Macros – SA32-0996-40
  - z/OS V2R4.0 JES2 Messages – SA32-0989-40
  - z/OS V2R4.0 MVS JCL Reference - SA23-1385-40
  - z/OS V2R4.0 MVS Using the Subsystem Interface – SA38-0679-40