

IBM Education Assistant

JES2 support of JES3 `//*ROUTE XEQ JECL`



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

- z/OS 2.3 implemented support for many JES3 JECL statements
 - The JES3 //*ROUTE XEQ statement was not one of them
- z/OS 2.4 adds support for the JES3 ROUTE XEQ JECL
 - Non-error path intended to be the same as JES3



Overview

- Who (Audience)
 - JES2 customers with JES3 JECL that includes the `//*ROUTE XEQ` statement
- What (Solution)
 - JES2 now recognizes and honors the JES3 `//*ROUTE XEQ` JECL
- Wow (Benefit / Value, Need Addressed)
 - One less JES3 JECL statement that needs to be converted moving to JES2
 - JES3 customers identified the `//*ROUTE XEQ` statement as commonly used

Usage & Invocation

- JES2 now supports a `//*ROUTE XEQ JECL` statement

- Syntax rules the same as JES3

`//*ROUTE XEQ dest[.vmguest]`

- Does NOT support alternate `/*ROUTE XEQ` syntax
 - Conflicts with the JES2 `/*ROUTE XEQ` statement

- Rules for `//*ROUTE XEQ`

- Must be at the top of the job
 - Only JECL can be placed between JOB card and ROUTE JECL card
 - Must be followed by a JOB or NJB card
 - If the destination node is not the home (local) node
 - Stream ends when EOF or another JOB card encountered
 - JOB card has to be outside of an instream data stream

Usage & Invocation (*cont.*)

- Differences from JES3 (Happy path)
 - Only one NJB card after `//*ROUTE XEQ` converted to JOB
 - JES3 converts 2 NJB cards

- Parameters to enable support:

```
INPUTDEF JES3JECL=SUPPORT
```

```
JECLDEF JES3=(ROUTE=PROCESS)
```

- New error message:

```
$HASP6175 - jobname Job to be transmitted has no records
```

- New for JES2 `//XMIT` and `/*XMIT` and JES3 `//*ROUTE XEQ`

```
$HASP6176 - jobname Expected JOB/NJB statement not found after  
//*ROUTE XEQ
```

```
$HASP6177 - Encountered statement
```

Usage & Invocation (*cont.*)

- New (to JES2) password management option for `//*ROUTE XEQ`

`NODE (name) JES3_LOCAL_CHK=YES|NO`

- If defaulted or set to NO, then passwords from the 1st job card are passed in the NJE header for the second job
- If set to YES, then the 1st job card is validated locally and passed as submitter for the second job
- Scope of this parameter is JESplex.
- This parameter does not apply if the destination on ROUTE XEQ is the home (local) node
 - In this case the first job card is not used
- Existing JES2 keyword on NODE statement PENCRYPT also applies
 - Controls if passwords are sent encrypted
 - Also updated to have a JESplex scope

Usage & Invocation (*cont.*)

- Equivalence table for initialization statements (NJERMT vs NODE)

PWCNTL= specification	JES3_LOCAL_CHK=	PENCRYPT=
LOCALCHK	YES	n/a
SENDCLR	NO	NO
SENDENC	NO	YES

Usage & Invocation - Miscellaneous

- Updated \$QGET tracing
 - New fields in JES2 trace 31 to give information on
 - Number of jobs skipped for duplicate
 - Number of jobs skipped for class limits
 - Number of times exit 49 was called
 - Additional exit timing information
 - Add a new \$QGET rolling trace
 - Data similar to TRACE 31 recorded in internal CTRACE
- SAPI rolling trace updated to include disposition flags
- New HASP055 message when HASP050 shortage relieved
- Allow leading 0s in \$P/\$S device commands
 - \$P PRT001 instead of \$P PRT1



Usage & Invocation - Miscellaneous

- C headers for many JES common SSI (IAZ) mapping macros
 - IAZSMFxx SMF mapping macros
 - Most IAZSSxx SSI extensions
 - IAZJPxxx, IAZCTKN, IAZJCOR, IAZSPLIO, IAZSYMDF

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

- The NODE statement PENCRIPT is now MAS scope
 - This may cause an informational message at first 2.4 startup
- 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.

Installation

- None

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

