

IBM Education Assistance for z/OS V2R1

Item: Common JCL

Support for Multiple Simultaneous Logins in a Sysplex

Element/Component: JES3



Agenda

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Trademarks

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



Presentation Objectives

We will cover two items for which JES3 support was added:

- Common JCL
 - JES3 added support for two new keywords on the JOB JCL statement: SYSTEM= and SYSAFF=.
- JES3 Support for multiple simultaneous logins in a sysplex
 - Support is added to JES3 to allow multiple simultaneous logins to TSO in a sysplex.



Overview: Common JCL

- Problem Statement / Need Addressed
 - Support for JES-independent JCL specifications.

- Solution
 - Support new SYSTEM and SYSAFF keywords for the JOB statement in both JES3 and JES2.

- Benefit / Value
 - Removes the need for customers to use JES3 specific `//*MAIN` job entry control (JECL) statements.



Usage & Invocation: Common JCL

- `SYSTEM={SystemName}`
 - `{(SystemName, SystemName, . . . , SystemName)}`
 - `{(-SystemName, SystemName, . . . , SystemName)}`
 - `{-SystemName}`
 - `{ANY}`
 - `{JGLOBAL}`
 - `{JLOCAL}`
- Up to 32 one to eight character system names.
- A value of "*" indicates the system where the job was submitted.
- A "-" preceding a system name indicates the system is not eligible for processing the job.
- A "-" preceding the first system name in a list indicates that none of system listed are eligible for processing the job.
- Similar to JES3 `//*MAIN SYSTEM= JECL` statement.



Usage & Invocation: Common JCL

- SYSAFF={MemberName}
 - {(MemberName, MemberName, . . . , MemberName)}
 - {(-MemberName, MemberName, . . . , MemberName)}
 - {-MemberName}
 - {(MemberName, . . . , IND)}
 - {(-MemberName, . . . , IND)}
 - {ANY}
 - {(ANY, IND)}
- Up to 32 one to eight character JES3 system names.
- A value of "*" indicates the system where the job was submitted.
- A "-" preceding a system name indicates the system is not eligible for processing the job.
- A "-" preceding the first system name in a list indicates that none of system listed are eligible for processing the job.
- Similar to JES2 /*JOBPARM SYSAFF= JECL statement.



Usage & Invocation: Common JCL

- Cannot specify both `SYSTEM=` and `SYSAFF=` keywords.
- Use of a `SYSTEM=` or `SYSAFF=` keyword overrides `//*MAIN SYSTEM=` JECL statement.
- Same considerations that exist when using `//*MAIN SYSTEM=` also apply to using `SYSTEM=` or `SYSAFF=` keywords.
- JES3 system names are specified for `SYSTEM=` or `SYSAFF=` keywords.
- JES3 ignores `IND` for `SYSAFF=` unless it is a valid JES3 system name.



Usage & Invocation: Common JCL - Examples

- `SYSTEM=(SYS01,SYS02)`
 - Systems SYS01 and SYS02 are eligible to process the job.
- `SYSTEM=(SYSPROD,*,SYSTEST)`
 - Systems SYSPROD, SYSTEST, and the system where the job was submitted are eligible to process the job.
- `SYSTEM=(-SYSPROD,*,SYSTEST)`
 - Systems SYSTEST, SYSPROD and the system where the job was submitted are not eligible to process the job.
- `SYSTEM=JLOCAL`
 - Any system which is a JES3 local main are eligible to process the job.



Usage & Invocation: Common JCL - Examples

- SYSAFF=(SYS01,SYS02,IND)
 - Systems SYS01 and SYS02 are eligible to process the job.
 - IND is ignored unless it is valid JES3 system name in which case IND would also be eligible to process the job.
- SYSAFF=ANY
 - Any system is eligible to process the job.



Overview: Multiple TSO Logins

- Problem Statement / Need Addressed
 - The same TSO user cannot log on to more than one system simultaneously when JES3 is used.
- Solution
 - Allow the same TSO user to be logged on to multiple systems
- Benefit / Value
 - Provides similar function that has been available for JES2.
 - Provides the systems programmer with the needed tools.



Usage & Invocation: Multiple TSO Logins

- Standard TSO logon is used on multiple systems with the same user id.
- When a TSO user is logged onto multiple systems, the following notification rules apply:
 - 1) When a system was specified explicitly, then notification messages are sent to that system.
 - 2) When no explicit specification is made, then the notification goes to the system from which the TSO user submitted the job.
 - 3) When no system specification is found, then a search is made starting with the first system defined via MAINPROC; the first occurrence of the TSO user id triggers the notification to be sent to that system.
 - 4) When no user is logged on, then the notification is sent to the global.



Usage & Invocation: Multiple TSO Logins

- For compatible behavior with previous releases, multiple TSO logon support is not enabled by default
- To enable, add **DUPLOGON=YES** to the **OPTIONS** JES3 Initialization statement:

DUPLOGON=

Indicates whether duplicate TSO/E logons across multiple systems in the JES3 complex are allowed.

YES

Specifies that a TSO/E logon for a specific userid may be active on each system in the JES3 complex.

NO

Specifies that only one instance of a TSO/E logon for a specific userid may be active in the JES3 complex



Migration & Coexistence Considerations

- No migration considerations.
- New SYSTEM and SYSAFF keywords for the JOB statement are supported only with a JES3 V2.1 global. The keywords are not recognized by a JES3 global running at a level previous to V2.1.
- Multiple logons are supported by the JES3 global - so the global at V2R1 determines whether multiple users can be logged on across systems in a JES3 complex.



Appendix

- Documents updated for Common JCL:
 - z/OS V2R1.0 MVS JCL Reference (SA23-1385)
 - z/OS V2R1.0 JES3 Messages (SA32-1007)

- Documents updated for Multiple TSO logins:
 - z/OS Migration (GA32-0889)
 - z/OS V2R1.0 JES3 Initialization and Tuning Guide (SA32-1003)
 - z/OS V2R1.0 JES3 Initialization and Tuning Reference (SA32-1005)
 - z/OS V2R1.0 JES3 Messages (SA32-1007)

