



IBM Software Group

IBM Developer for z Systems – for ISPF Developers

Module 6 – Remote Systems - ISPF 3.x and Batch Job Management



DevOps

IBM Trademarks and Copyrights

© Copyright IBM Corporation 2008 through 2019.

All rights reserved – including the right to use these materials for IDz instruction.

The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates.

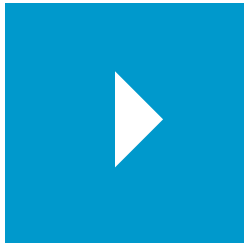
This information is based on current IBM product plans and strategy, which are subject to change by IBM without notice. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way.

IBM, the IBM logo, the on-demand business logo, Rational, the Rational logo, and other IBM Rational products and services are trademarks or registered trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.



UNIT

The IDz Workbench



Topics:


- z/OS Dataset Management
- **Submit and Manage z/OS Jobs**
- Issue TSO Commands From Host Emulation

Submitting Batch JCL Jobs

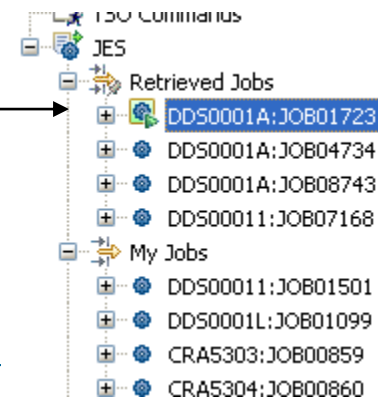
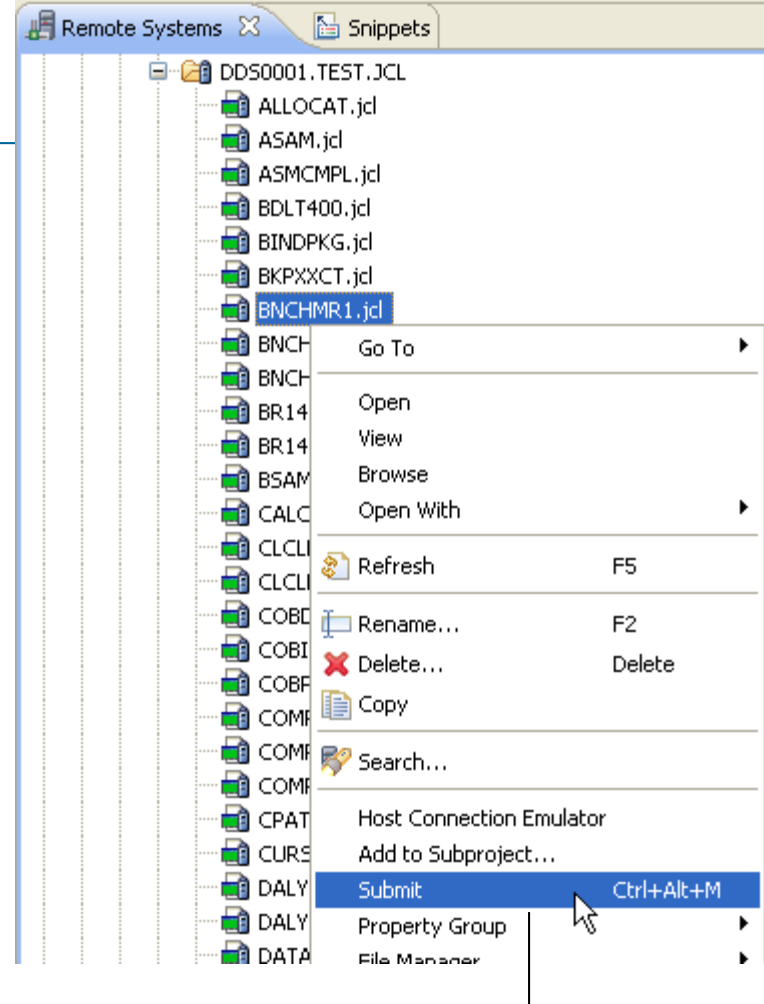
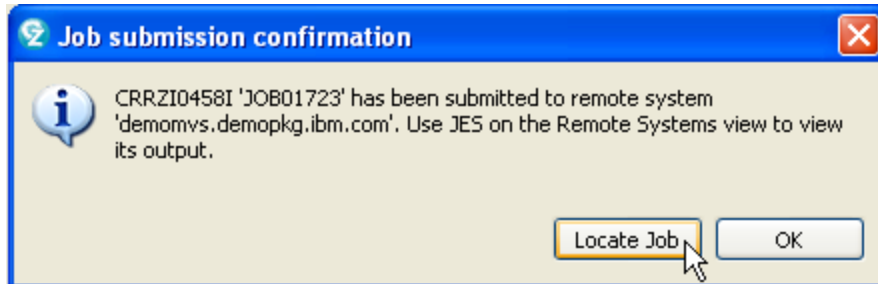
IDz has access to the JES queue

- ▶ Compatible with JES 2 and JES 3

Can submit batch jobs a number of different ways:

- ▶ From Remote Systems explorer:
 - ▶ Expand a JCL library
 - ▶ Right-click over the **.JCL** PDS member
 - ▶ Select **Submit**
 - ▶ Or use the Hot-key combination
- ▶ After submitting the JCL you can access your batch job results inside the **JES Filter** 

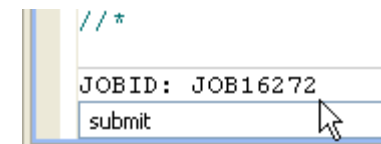
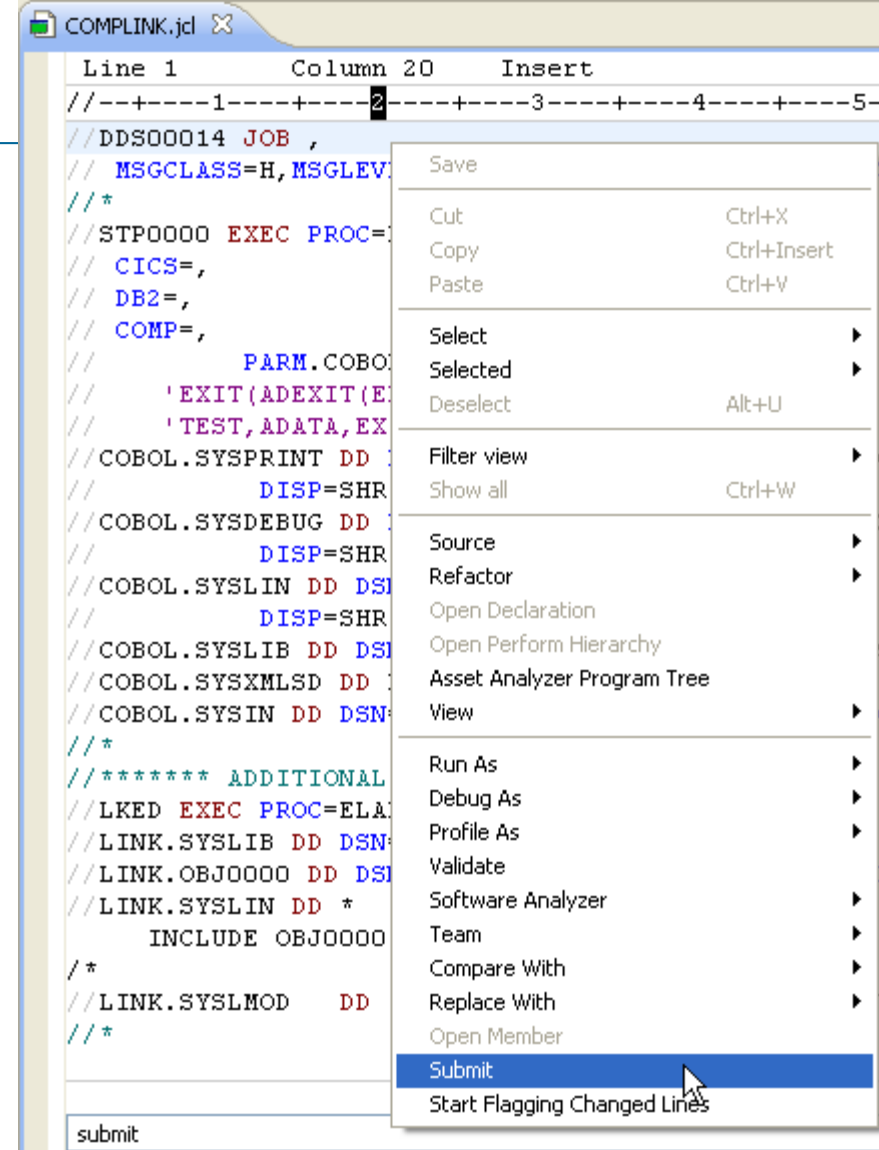
If you are using IDz v8 you can automatically Locate your job



Submit Batch Jobs – while Editing JCL

You can also submit jobs from the IDz editor:

- With a JCL file opened in the editor:
 - ▶ Right-click, and from the Context Menu select **Submit**
 - ▶ Type **Submit** into the command prompt



You can abbreviate: **sub**

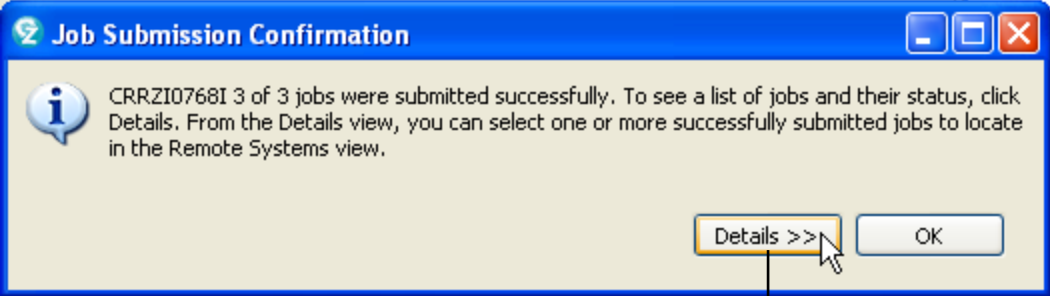


Submit Multiple JCL Jobs

You can select multiple jobs in RSE and *submit all selected*.

Steps:

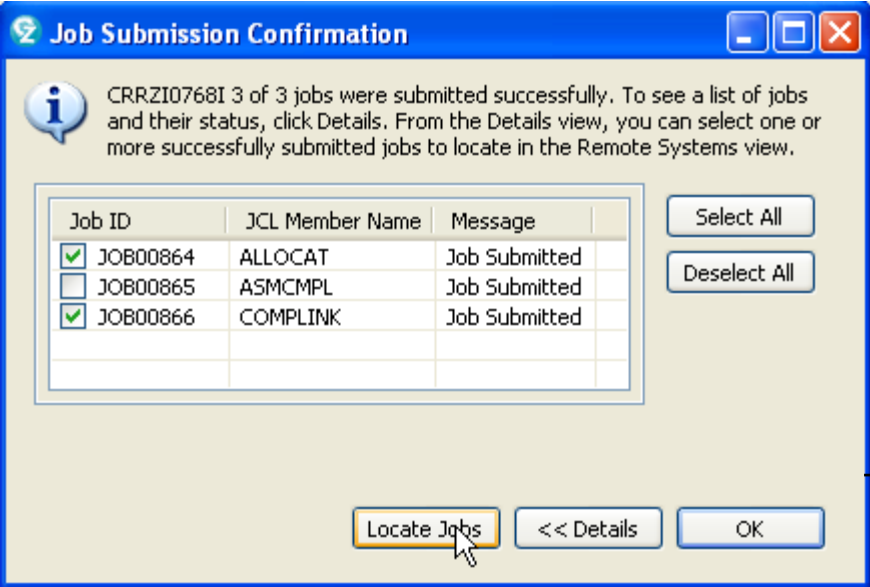
- ▶ Select your JCL members (Ctrl+Click or Shift+Click)
- ▶ Right-click, and from the Context Menu select **Submit**



Job Submission Confirmation

CRRZI0768I 3 of 3 jobs were submitted successfully. To see a list of jobs and their status, click Details. From the Details view, you can select one or more successfully submitted jobs to locate in the Remote Systems view.

Details >> OK



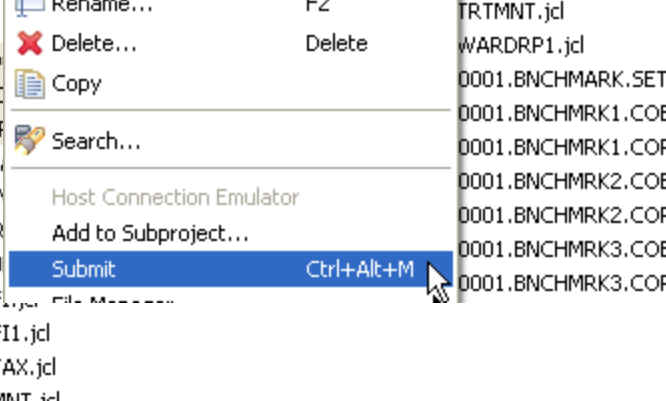
Job Submission Confirmation

CRRZI0768I 3 of 3 jobs were submitted successfully. To see a list of jobs and their status, click Details. From the Details view, you can select one or more successfully submitted jobs to locate in the Remote Systems view.

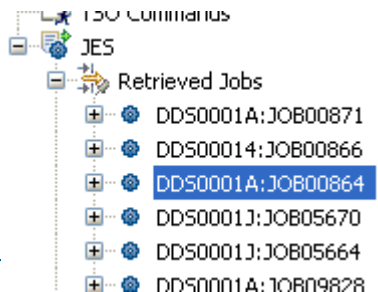
Job ID	JCL Member Name	Message
<input checked="" type="checkbox"/> JOB00864	ALLOCAT	Job Submitted
<input type="checkbox"/> JOB00865	ASMC MPL	Job Submitted
<input checked="" type="checkbox"/> JOB00866	COMPLINK	Job Submitted

Select All Deselect All

Locate Jobs << Details OK



Go To
Open
View
Browse
Refresh F5
Rename... F2
Delete... Delete
Copy
Search...
Host Connection Emulator
Add to Subproject...
Submit Ctrl+Alt+M

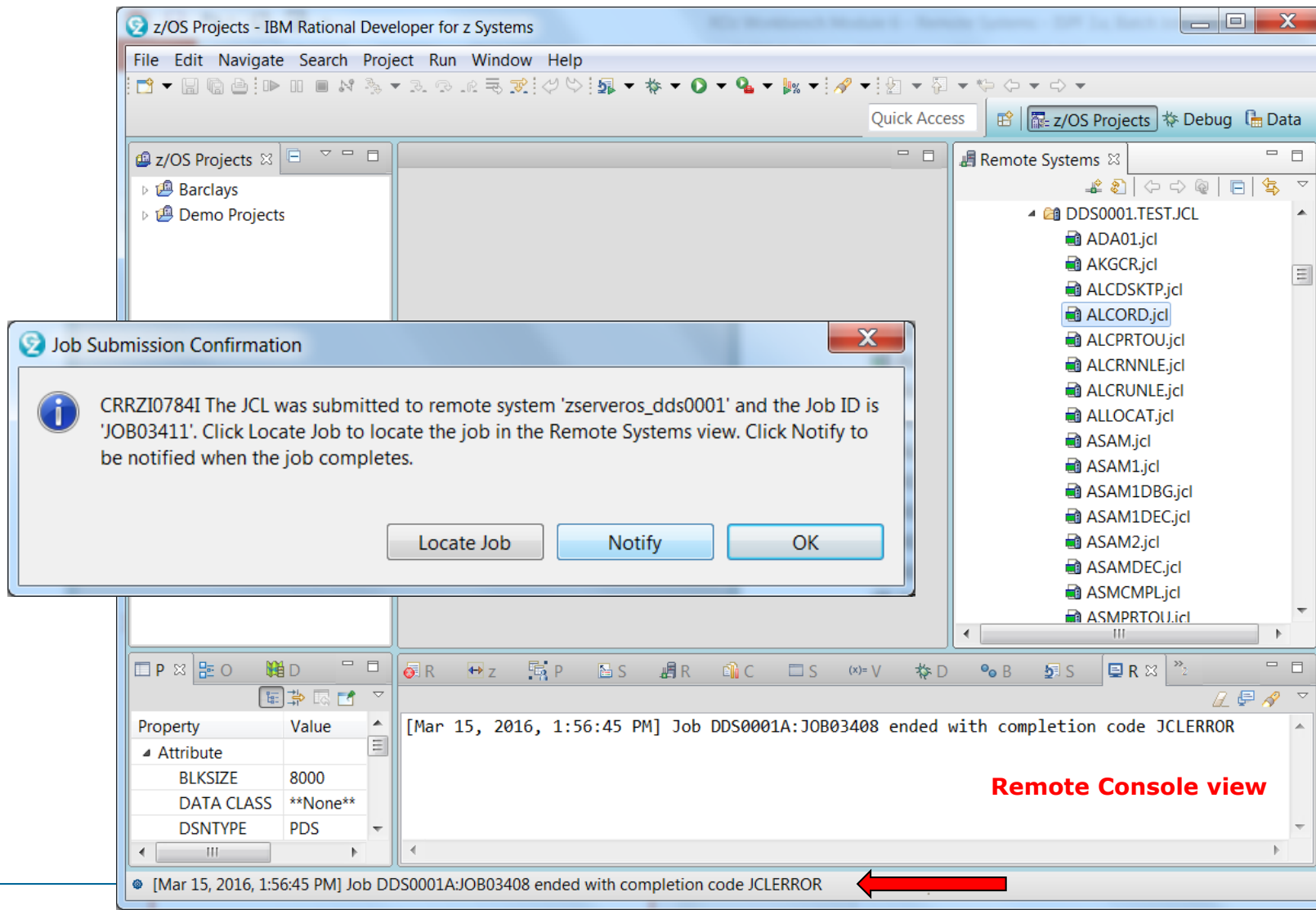


Retrieved Jobs

- DD50001A:JOB00871
- DD500014:JOB00866
- DD50001A:JOB00864
- DD50001J:JOB05670
- DD50001J:JOB05664
- DD50001A:JOB09828

Job Notify

- You can ask IDz to Notify you when a job completes. The notification message will be on the bottom) of your Workbench. Note also that the **Remote Console view** will show job status information



The Remote Job Monitor and "My Jobs" Filter

- The Remote Job Monitor allows you to manage batch jobs from within IDz:

- ▶ View submitted jobs

- Select Refresh/F5 to see recently submitted jobs
- As folder/sub-folder contents
- In a table-like view

- ▶ Open job step results in the Content Area

- ▶ Cancel jobs

- Not finished

- ▶ Purge jobs

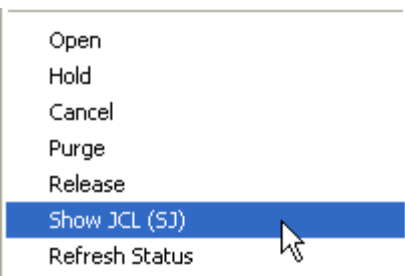
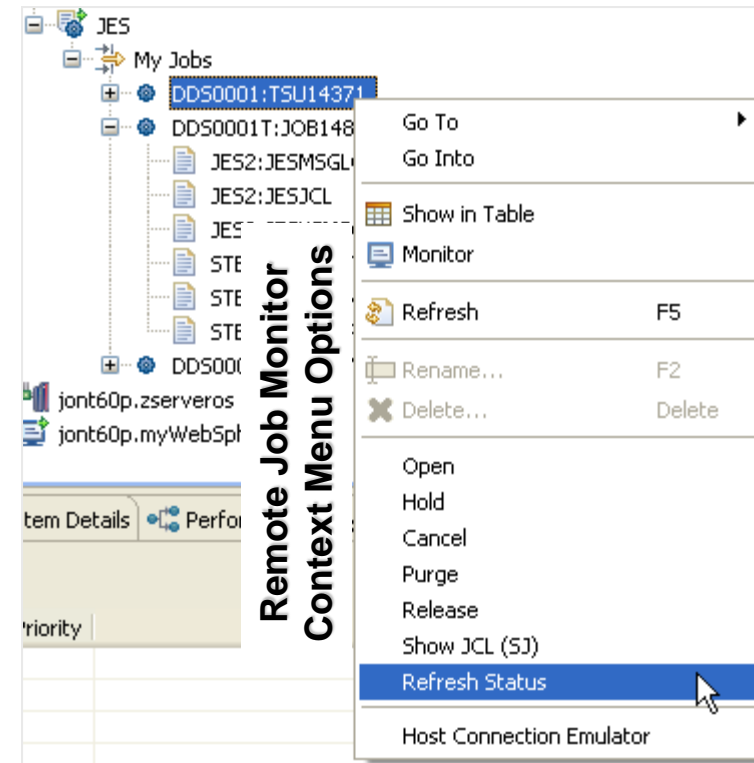
- Remove the job results

- ▶ Release jobs

- Into the queue when TYPRUN=HOLD

- ▶ Refresh the job status

- To find out if the job has ended



Show JCL – opens the original JCL dataset in the Editor

Note: IDz Job Filters are similar to the “Prefix” (PRE) functionality in SDSF

Showing Job Step Spool File Results

- Expand the Job folder
- Double-click an individual job step

DDS0001.DDS0001T.JOB14800.D0000109.?

* IBM Fault Analyzer for z/OS V9R1M0 (UK45132 2009/03/25)
*
* Copyright IBM Corp. 2000, 2009. All rights reserved.

JOBNAME: DDS0001T SYSTEM ABEND: OC7 DEMOMVS 2009/07/02

<H1> I B M F A U L T A N A L Y Z E R S Y N O P S I S

A system abend OC7 occurred in module HOSPCALC program HOSPCALC at offs X'1120'.

A program-interruption code 0007 (Data Exception) is associated with the failure and indicates that:

A decimal digit or sign was invalid.

The cause of the failure was program HOSPCALC in module HOSPCALC. The source code that immediately preceded the failure was:

Source Line #	Code
000288	MOVE TOTAL-AMT-GROSS TO TOTAL-GROSS-OUT.

The COBOL source code for data fields involved in the failure:

Source Line #	Code
000143	05 TOTAL-GROSS-OUT PIC \$, \$\$\$, \$99.99.
000162	05 TOTAL-AMT-GROSS PIC S9(7)V99 COMP-3.

Remote Systems Team

- DDS0001.TEST.LISTING
- DDS0001.TEST.LOAD
- DDS0001.TEST.MYNEV
- DDS0001.TEST.OBJ
- DDS0001.TEST.RPTOUT
- DDS0001.TEST.SQL
- DDS0001.TEST.SYSD
- DDS0001.HOSPCALC
- DDS0001.HOSPCALC
- DDS0001.HOSPCALC
- DDS0001.HOSPIN.DA
- DDS0001.HOSPOUT.D
- DDS0001.HOSPOUT.E
- DDS0001.HOSPSORT
- DDS0001.HOSPSRCH
- DDS0001.HOSPSRCH
- DDS0001.SPFTEMP0.C
- DDS0001.SPFTEMP1.C
- DDS0001.TEST.SQLOU
- Integration COBOL
- Daves Files
- My Search Queries
- TSO Commands
- JES
- My Jobs
 - DDS0001:TSU14371
 - DDS0001T:JOB14800
 - JES2:JESM5GLG
 - JES2:JESJCL
 - JES2:JESYSMSG
 - STEP3:SYSOUT
 - STEP4:CEED
 - STEP4:IDT
 - DDS00012:JOB14780

Show All Jobs in a Table Format

Organize and display jobs by:

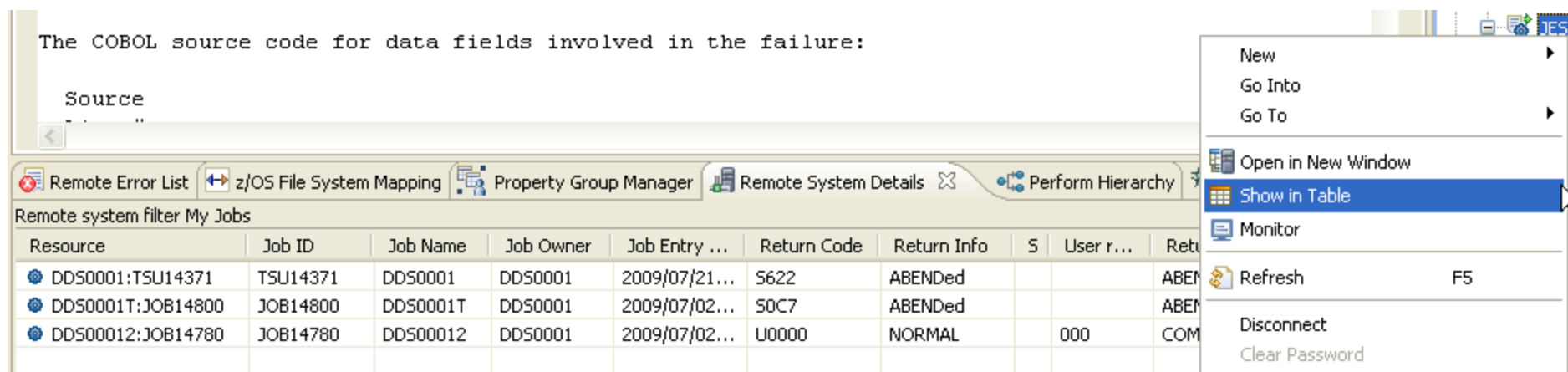
- Job Owner
- Job Prefix
- Job Output Class
- Job Status
- Job Class

Right-click over the JES icon and select: Show in Table

- Can:
 - ▶ Scroll right/left to see different job summary stats
 - ▶ Sort job results by all column options in the table
 - ▶ This allows you to do things like, aggregate active jobs (IMS regions, for instance) – by sorting on Job Phase

The COBOL source code for data fields involved in the failure:

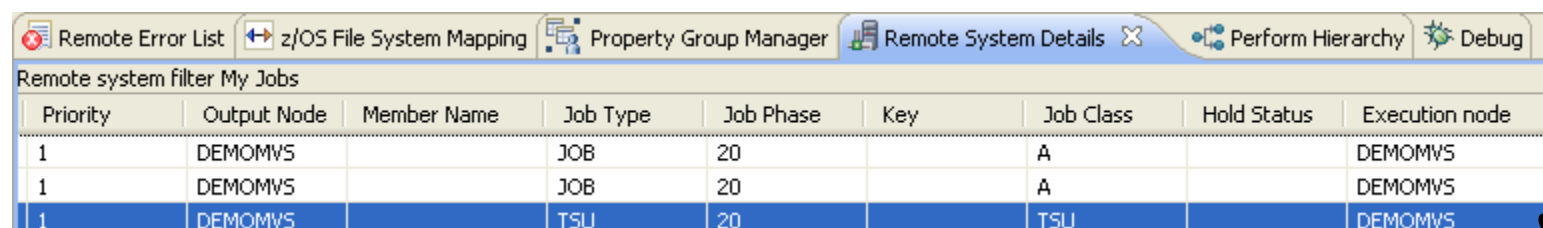
Source



The screenshot shows the JES interface with a table of jobs. A context menu is open over the JES icon, with the 'Show in Table' option highlighted. The table has columns: Resource, Job ID, Job Name, Job Owner, Job Entry ..., Return Code, Return Info, S, User r..., and Retu. The table contains three rows of job data.

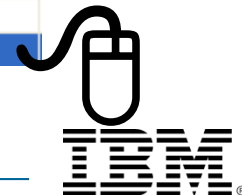
Resource	Job ID	Job Name	Job Owner	Job Entry ...	Return Code	Return Info	S	User r...	Retu
DDS0001:TSU14371	TSU14371	DDS0001	DDS0001	2009/07/21...	S622	ABENDED			ABEM
DDS0001T:JOB14800	JOB14800	DDS0001T	DDS0001	2009/07/02...	S0C7	ABENDED			ABEM
DDS00012:JOB14780	JOB14780	DDS00012	DDS0001	2009/07/02...	U0000	NORMAL		000	COM

- Double-click an individual job to open the entire list dataset in the content area



The screenshot shows the JES interface with a table of jobs. The table has columns: Priority, Output Node, Member Name, Job Type, Job Phase, Key, Job Class, Hold Status, and Execution node. The table contains three rows of job data.

Priority	Output Node	Member Name	Job Type	Job Phase	Key	Job Class	Hold Status	Execution node
1	DEMOMVS		JOB	20		A		DEMOMVS
1	DEMOMVS		JOB	20		A		DEMOMVS
1	DEMOMVS		TSU	20		TSU		DEMOMVS



Showing Job Step Results – in a Table Format

1. Select the individual job icon
2. Right-click and select Show in Table
3. Can sort job results by all column options in the table
4. Double-click an individual job step to open in the content area

The COBOL source code for data fields involved in the failure:

```
Source
Line #
-----
000143      05  TOTAL-GROSS-OUT          PIC $,,$,$,$99.99.
000162      05  TOTAL-AMT-GROSS          PIC S9(7)V99  COMP-3.
```

Remote Error List | z/OS File System Mapping | Property Group Manager | Remote System Details | Perform

JES Job DD50001T:JOB14800

Resource	Data set Name	DD Name	Step Name	Lines in
JES2:JESMSG LG	DD50001.DD50001T.JOB14800.D0000002.JESMSG LG	JESMSG LG	JES2	
JES2:JESJCL	DD50001.DD50001T.JOB14800.D0000003.JESJCL	JESJCL	JES2	
JES2:JESYSMSG	DD50001.DD50001T.JOB14800.D0000004.JESYSMSG	JESYSMSG	JES2	
STEP3:SYSOUT	DD50001.DD50001T.JOB14800.D0000107.?	SYSOUT	STEP3	
STEP4:CEEDUMP	DD50001.DD50001T.JOB14800.D0000108.?	CEEDUMP	STEP4	
STEP4:IDIREPRT	DD50001.DD50001T.JOB14800.D0000109.?	IDIREPRT	STEP4	

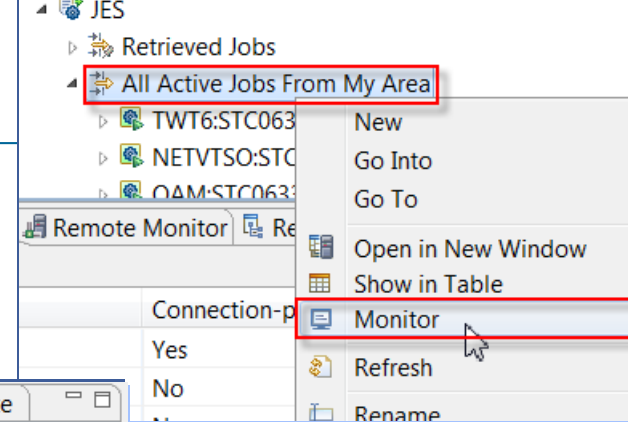
Go To
Go Into
Show in Table
Monitor
Refresh F5
Rename... F2
Delete... Delete
Open
Hold
Cancel
Purge
Release
Show JCL (SJ)
Refresh Status
Host Connection Emulator

DD50001T:JOB14800
JES2:JESMSG LG
JES2:JESJCL
JES2:JESYSMSG
STEP3:SYSOUT
STEP4:CEEDUMP
STEP4:IDIREPRT
DD500012:JOB14780

Note that your customization decisions are saved to your Workspace (i.e. They persist between IDz sessions)

Monitor Jobs in a Table Format (support for ST)

Right-click over any job filter (especially a filter for jobs that are active in the queue) and select: **Monitor**

A screenshot of a software window titled 'All Active Jobs From My Area'. It contains a table with job details. Below the table, there is a 'Poll Configuration' button, which is highlighted with a red box. A tooltip for this button says 'Expand to configure polling'.

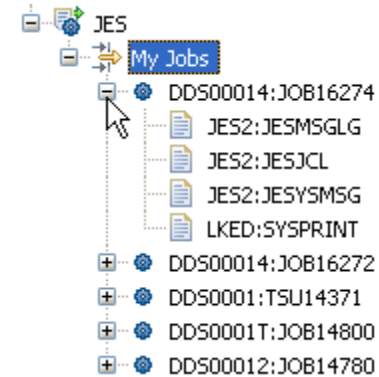
Resource	Job ID	Job Name	Job Owner	Job Entry Date	Return C...	Return In...	Sys
TWT6:STC06334	STC06334	TWT6	TWSE2E	2013/09/27 21:04:27			
NETVTSO:STC063...	STC06333	NETVTSO	SYSSTC	2013/09/27 21:04:25			
OAM:STC06332	STC06332	OAM	SYSSTC	2013/09/27 21:04:25			
NETVIO3:STC063...	STC06331	NETVIO3	SYSSTC	2013/09/27 21:04:24			
CNMEUNIX:STC0...	STC06326	CNMEUNIX	SYSSTC	2013/09/27 21:01:53			
NETVTSO1:STC06...	STC06325	NETVTSO1	SYSSTC	2013/09/27 21:01:50			
RMFGAT:STC063...	STC06323	RMFGAT	SYSSTC	2013/09/27 21:01:33			
TWT6:STC06322	STC06322	TWT6	TWSE2E	2013/09/27 21:01:12			
CICSTIV3:STC063...	STC06321	CICSTIV3	SYSSTC	2013/09/27 21:01:10			

← By clicking: **Poll Configuration** and specifying a **Poll Wait Interval** IDz will automatically refresh your job list.



JES Job Filters

- The MVS™ Job Entry System (JES) job filters are used to define the search that is done in JES for jobs.
- (like My Datasets) the My Jobs filter shows all jobs you have submitted
- You can create a custom JES filter, that allows you to customize your view of jobs using filters
- JES job filter search parameters include the following:
 - ▶ Job Owner
 - ▶ Job Prefix
 - ▶ Job Output Class
 - ▶ Job Status
 - ▶ Job Class

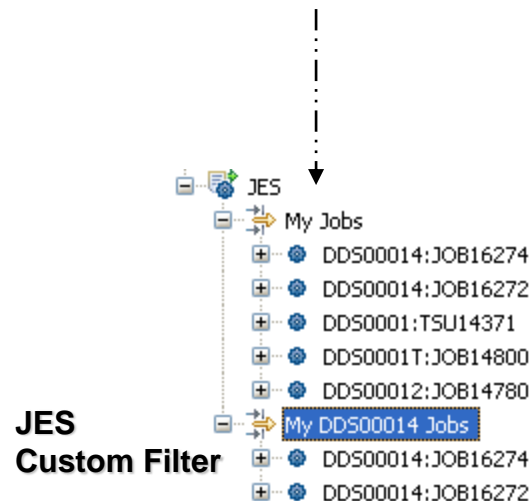


**See Slide notes on LIMIT_VIEW
and providing Filters for JCL
submitted by others**



Create a Custom JES Job Filter

- **Right-click** over JES
 - ▶ Select **New JES Job Filter...**
- Specify any custom filtering properties:
 - ▶ **Job Owner**
 - &USERID = you
 - ▶ **Job Name Prefix**
 - ▶ **Job Output Class**
 - ▶ **Job Status**
 - ▶ **Job Class**
- Click **Next >**
- Name the Job Filter
- Click **Finish**



The 'New Filter' dialog box is shown. It has a title bar 'New Filter' and a subtitle 'New JES Job Filter'. Below the subtitle is a note: 'Create a JES Job Filter by entering strings. Use * for wildcard'. The dialog contains several input fields: 'Job Owner:' with the value '&USERID', 'Job Name Prefix:' with the value 'DD500014', 'Job Status:' with the value '*' and a tooltip 'Filter jobs by specified name', 'Job Class:' with the value '*', and 'Job Output Class:' with the value '*'. At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A question mark icon is also present.

The 'Name the new filter' dialog box is shown. It has a title bar 'Name the new filter' and a subtitle 'Filters are saved for easy re-use. Specify a unique name for this filter. This name will appear in the Re Systems view, and will be expandable.' Below the subtitle is a label 'Filter name:' followed by a text input field containing the value 'My DD500014 Jobs'. A dotted arrow points from the 'Next >' button in the 'New Filter' dialog to this input field.

JES Filter Options

By Job Status:

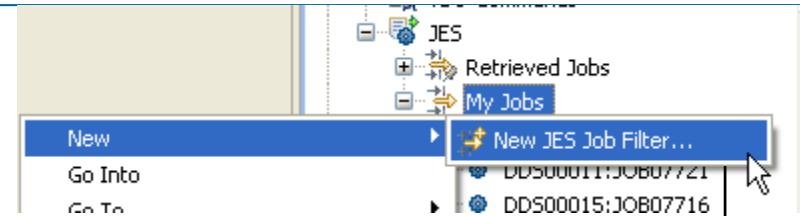
* (all queues)

Active

Input Queue

Hold Queue

Output Queue

A screenshot of the 'New Filter' dialog box. The title bar says 'New Filter'. The main title is 'New JES Job Filter'. Below the title, it says 'Create a JES job filter by entering strings. Use * for wildcard.' There are four input fields: 'Job owner:' with the text '&USERID', 'Job name prefix:' with the text '*', 'Job status:' with a dropdown menu showing 'Active' selected, and a fourth field with the text '*'. At the bottom, there are four buttons: '?', '< Back', 'Next >', and 'Cancel'. A mouse cursor is pointing at the 'Active' option in the 'Job status' dropdown.

Show JCL (SJ) and Re-submitting a JOB

- You may end up with JCL errors, and wish to utilize IDz's SJ (Show JCL) to retrieve the original JCL for the job and save or re-submit it. To do this:
- Right-click** over JES and select **Show JCL (SJ)**
- Analyze/Modify the JCL deck
- Right-click and select: **SUBMIT**
- Refresh the **My Jobs** filter

The screenshot shows the JES interface with a JCL deck editor window titled 'JOB06700.jcl'. The editor displays a JCL deck with lines 000001 through 000023. A context menu is open over the editor, showing options like Save, Cut, Copy, Paste, Select, Selected, Deselect, Filter view, Show all, Source, Refactor, Open Declaration, Open Perform Hierarchy, View, Start Flagging Changed Lines, and Submit. The 'Submit' option is highlighted. To the right, a 'My Jobs' list is visible, showing job details for 'DDS0001A:JOB06700'. A context menu is also open over the 'My Jobs' list, showing options like Go To, Go Into, Show in Table, Monitor, Refresh, Rename..., Delete..., Open, Hold, Cancel, Purge, Release, Show JCL (SJ), and Refresh Status. The 'Show JCL (SJ)' option is highlighted. An arrow points from the 'Show JCL (SJ)' option in the 'My Jobs' menu to the 'Submit' option in the JCL editor menu.

```
Line 1      Column 1      Insert
000001 //DDS0001A JOB ,
000002 //  MSGCLASS=H,MSGLEVEL=(1,1),TIME=(1,1),REGION=70M,COND
000003 // *
000004 // *
000005 //TRTMNT E
000006 //STEPLIB
000007 //SYSIN
000008 //CEEOPST
000009 //SYSPRINT
000010 //SYSOUT
000011 //TRMTDATA
000012 //TRMTEDIT
000013 //
000014 //
000015 //TRMTERR
000016 //
000017 //
000018 //SYSTSPRI
000019 //PATMSTR
000020 //SYSTSIN
000021 //
000022 // * STEP C
000023 // *
```

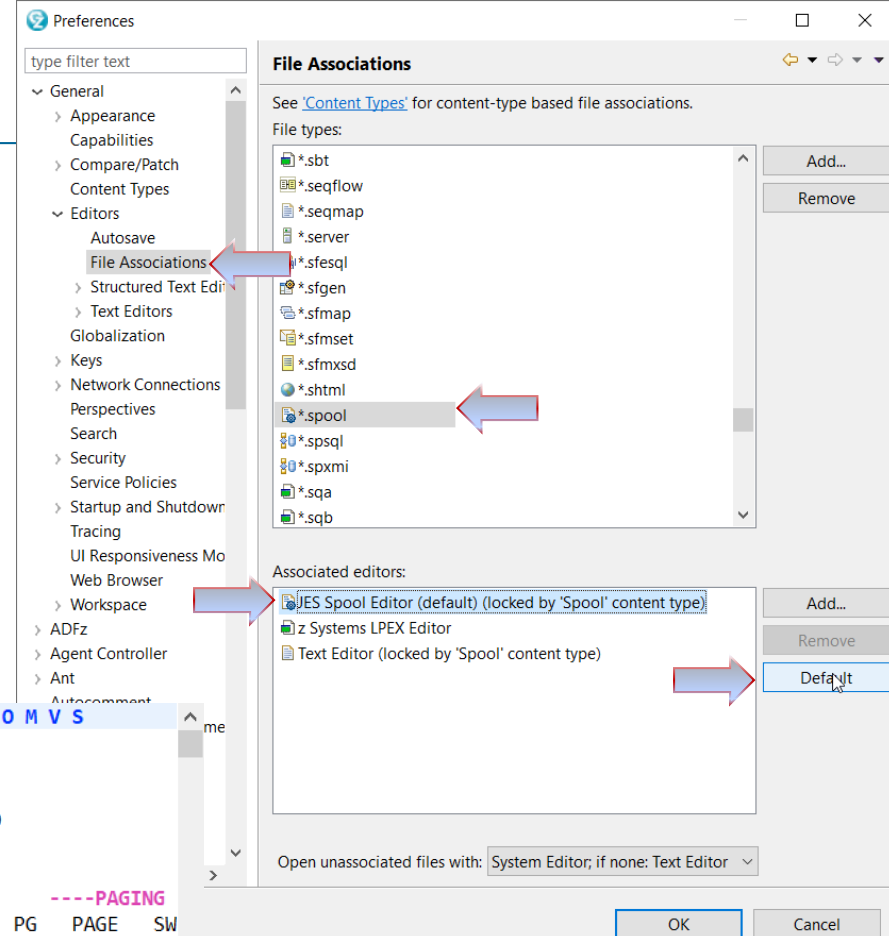
Note that Show JCL only works for jobs that you submitted (under your TSO ID)

The “Dedicated” JES Spool File Editor – IDz v14.3

- Some developers like to use the dedicated Spool File Editor – which can be implemented as follows:
- From Window > Preferences > General > Editors > File Associations
 - Scroll to *.spool
 - Make the JES Spool Editor the default.
- Note that Ctrl+F is the Find feature in this Editor

```
JES2 JOB LOG -- SYSTEM MVSA -- NODE DEMOMVS
07.30.42 JOB10866 ---- TUESDAY, 19 MAR 2019 ----
07.30.42 JOB10866 IRR010I USERID DDS0001 IS ASSIGNED TO THIS JOB.
07.30.42 JOB10866 ICH70001I DDS0001 LAST ACCESS AT 07:24:57 ON TUESDAY, MARCH 19, 2019
07.30.42 JOB10866 $HASP373 DDS00011 STARTED - INIT 29 - CLASS A - SYS MVSA
07.30.42 JOB10866 IEF403I DDS00011 - STARTED - TIME=07.30.42
07.30.42 JOB10866 -
07.30.42 JOB10866 -JOBNAME STEPNAME PROCSTEP RC EXCP CPU SRB CLOCK SERV PG PAGE SW
07.30.42 JOB10866 -DDS00011 STP0000 ASM 12 1829 .00 .00 .01 3716 0 0
07.30.42 JOB10866 IEF404I DDS00011 - ENDED - TIME=07.30.42
07.30.42 JOB10866 -DDS00011 ENDED. NAME- TOTAL CPU TIME= .00 TOTAL ELAPSED TIM
07.30.42 JOB10866 $HASP395 DDS00011 ENDED - RC=0012

----- JES2 JOB STATISTICS -----
19 MAR 2019 JOB EXECUTION DATE
30 CARDS READ
1,981 SYSOUT PRINT RECORDS
0 SYSOUT PUNCH RECORDS
173 SYSOUT SPOOL KBYTES
0.01 MINUTES EXECUTION TIME
1 //DDS00011 JOB ,
// MSGCLASS=H,MSGLEVEL=(1,1),TIME=(,4),REGION=144M,COND=(16,LT)
//*
2 //STP0000 EXEC PROC=ELAXFASM,
// PARM.ASM=('NOOBJ',
// 'ADATA',
```

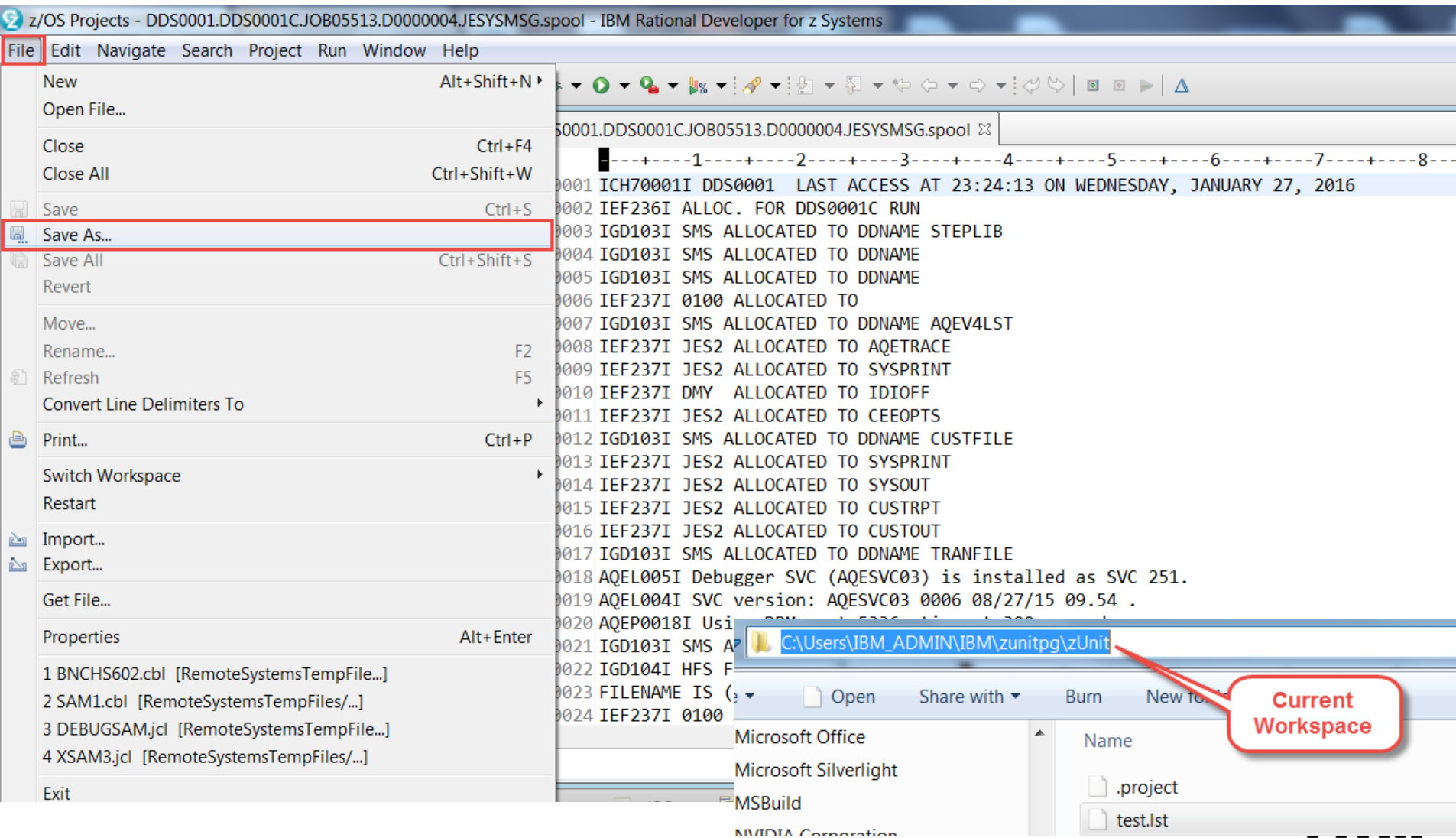


Open a Spool file from JES

Copy JES Spool File Output – 1 of 2

- There are three ways to save JES Spool File output:

1. File / Save as menu – which provides access to local folders



Copy JES Spool File Output – 2 of 2

2. From within the spool file output, use Windows Select/Copy/Paste

The screenshot shows a window titled "DDS0001.DDS0001C.JOB05513.D0000004.JESYSMSG.spool". The window contains a list of JES output lines, with lines 000001 through 000024 selected. A context menu is open over the selected text, showing options: Cut (Ctrl+X), Copy (Ctrl+Insert), Paste (Ctrl+V), Select, Selected, Deselect (Alt+U), Show all (Ctrl+W), Source, View, and Start Flagging Changed Lines. The "Copy" option is highlighted. Two red callout boxes provide instructions: "Press Ctrl+A to select all of the spool file output" and "Then use the Context Menu or Hot Keys to save the data".

Press Ctrl+A to select all of the spool file output

Then use the Context Menu or Hot Keys to save the data

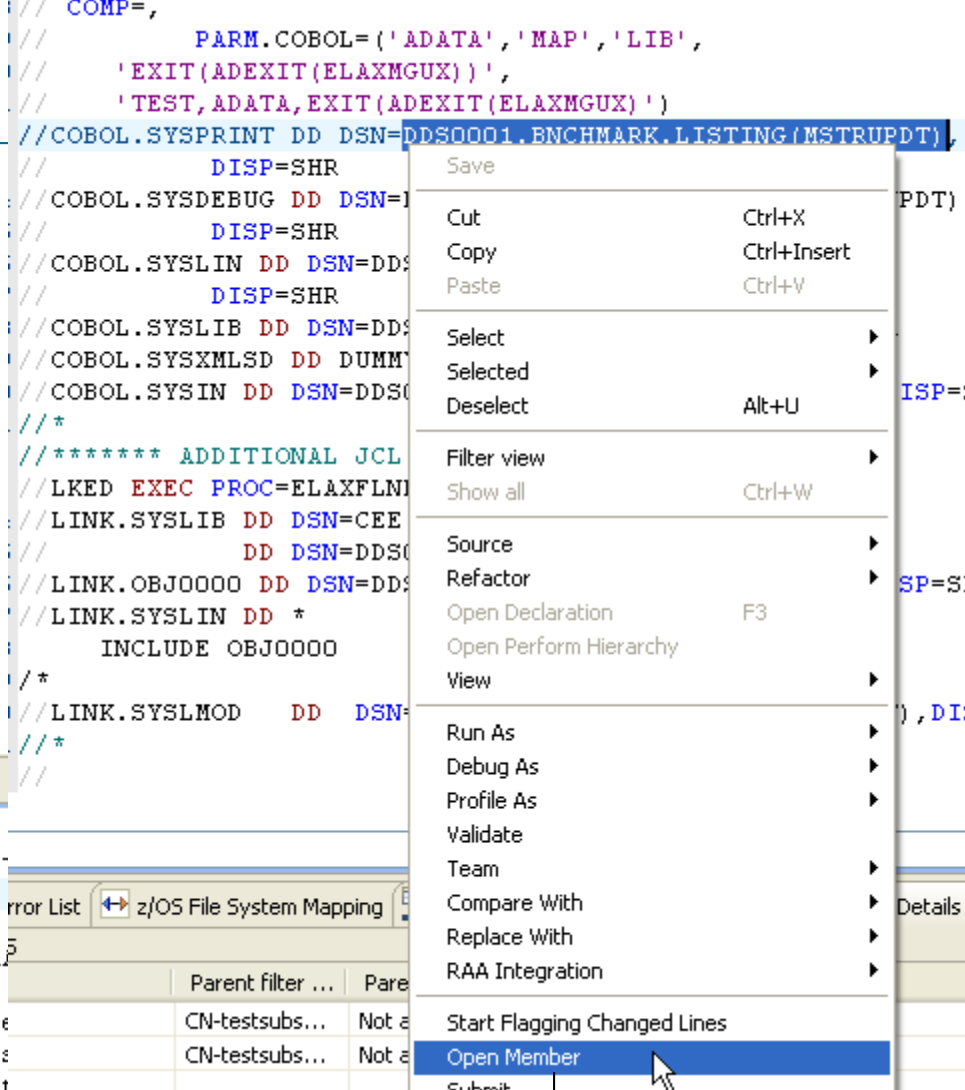
000001 ICH70001I DDS0001 LAST ACCESS AT 23:24:13 ON WEI
000002 IEF236I ALLOC. FOR DDS0001C RUN
000003 IGD103I SMS ALLOCATED TO DDNAME STEPLIB
000004 IGD103I SMS ALLOCATED TO DDNAME
000005 IGD103I SMS ALLOCATED TO DDNAME
000006 IEF237I 0100 ALLOCATED TO
000007 IGD103I SMS ALLOCATED TO DDNAME AQEV4LST
000008 IEF237I JES2 ALLOCATED TO AQETRACE
000009 IEF237I JES2 ALLOCATED TO SYSPRINT
000010 IEF237I DMY ALLOCATED TO IDIOFF
000011 IEF237I JES2 ALLOCATED TO CEEOPTS
000012 IGD103I SMS ALLOCATED TO DDNAME CUSTFILE
000013 IEF237I JES2 ALLOCATED TO SYSPRINT
000014 IEF237I JES2 ALLOCAT
000015 IEF237I JES2 ALLOCAT
000016 IEF237I JES2 ALLOCAT
000017 IGD103I SMS ALLOCATE
000018 AQEL005I Debugger SV
000019 AQEL004I SVC version
000020 AQEP0018I Using DBM
000021 IGD103I SMS ALLOCATE
000022 IGD104I HFS FILE WAS
000023 FILENAME IS (/etc/re
000024 IEF237I 0100 ALLOCAT

Cut Ctrl+X
Copy Ctrl+Insert
Paste Ctrl+V
Select
Selected
Deselect Alt+U
Show all Ctrl+W
Source
View
Start Flagging Changed Lines

3. You can use REXX and IDz's Menu Manager, to access SDSF "XDC" commands. Details here: <https://www.ibm.com/developerworks/community/files/app#/file/77dd2381-e8fc-44f6-9f6c-4c003015f8c3>

Open PDS Member From Within JCL

- Sometimes it's useful to be able to see a PDS member when you're editing JCL
 - Compile listings
 - Source
 - PARMLIB members
 - Etc.
- To do this:
 - Select the entire PDS member name
 - Right-click and select: **Open Member**



Open QSAM File – from within JCL

- In IDz you can also open QSAM files directly out of a JCL source file using **Open Member**:

- ▶ Select the entire DSN
- ▶ Right-click and select: **Open Member**

- This opens the QSAM file in the Data File Editor

```
// COMP=1, *LIB=
// COBOL.SYSPRINT DD DISP=SHR,
// DSN=DDS0001.TRMTDATA
// COBOL.SYSDEBUG DD DISP=SHR,
// DSN=DDS0001.TEST.SYS
// COBOL.SYSLIN DD DISP=SHR,
// DSN=DDS0001.TEST.OBJ
// COBOL.DBRMLIB DD DISP=SHR,
// DSN=DDS0001.TEST.DBR
// COBOL.SYSLIB DD DISP=SHR,
// DSN=DDS0001.TEST.COP
// DD DISP=SHR,
// DSN=DDS0001.TEST1.CO
// DD DISP=SHR,
// DSN=DDS0001.BNCHMRK3
// COBOL.SYSXMLSD DD DUMMY
// COBOL.SYSIN DD DISP=SHR,
// DSN=DDS0001.TEST1.CO
// *
// ***** ADDITIONAL JCL FOR C
// UOPTSTP EXEC PROC=ELAXFUOP
// GENUOPT.SYSLIB DD DSN=SYS1.M
// DD DSN=CEE.SC
// GENUOPT.SYSIN DD *
```

Save	Ctrl+S
Cut	Ctrl+X
Copy	Ctrl+Insert
Paste	Ctrl+V
Select	▶
Selected	▶
Deselect	Alt+U
Filter view	▶
Show all	Ctrl+W
Source	▶
View	▶
Run As	▶
Debug As	▶
Profile As	▶
Validate	▶
Software Analyzer	▶
Team	▶
Compare With	▶
Replace With	▶
Asset Analyzer	▶
Start Flagging Changed Lines	▶
Preferences...	
Open Member	
Submit	

BNCH5602.cbl	*TRMTSRCH.jcl	DDS0001.TRMTDATA
Jump To: <input type="text"/> <input type="button" value="Go"/>		
1	00000101022008-01.02.03-000000010010DIAG1MEDI-001ORAB0000347PHYS-001PHYS-0	
2	00000202172008-01.02.03-000000012010DIAG2MEDI-002INVB0000623PHYS-002PHYS-0	
3	00000305192008-01.02.03-000000011010DIAG3MEDI-003INJB0001037PHYS-003PHYS-0	
4	00000408242008-01.02.03-000000010011DIAG4MEDI-004MRIB0001589PHYS-004PHYS-0	
5	00000510282008-01.02.03-000000010000DIAG5MEDI-005CATB0002279PHYS-005PHYS-0	
6	00000602022008-01.02.03-000000011111DIAG6MEDI-006CHMB0003107PHYS-006PHYS-0	
7	00000703172008-01.02.03-000000012222DIAG7MEDI-007RADB0004073PHYS-007PHYS-0	
8	00000806192008-01.02.03-000000013333DIAG8MEDI-008SURB0005177PHYS-008PHYS-0	
9	00000909242008-01.02.03-000000014444DIAG9MEDI-009PHYB0006419PHYS-009PHYS-0	
10	00001011282008-01.02.03-000000015555DIAG0MEDI-000EQPB0007799PHYS-000PHYS-0	
11	00001103022008-01.02.03-000000016666DIAG1MEDI-001LABB0009317PHYS-001PHYS-0	
12	00001204172008-01.02.03-000000017777DIAG2MEDI-002VENB0010973PHYS-002PHYS-0	
13	00001307192008-01.02.03-000000018888DIAG3MEDI-003OTHN0012767PHYS-003PHYS-0	

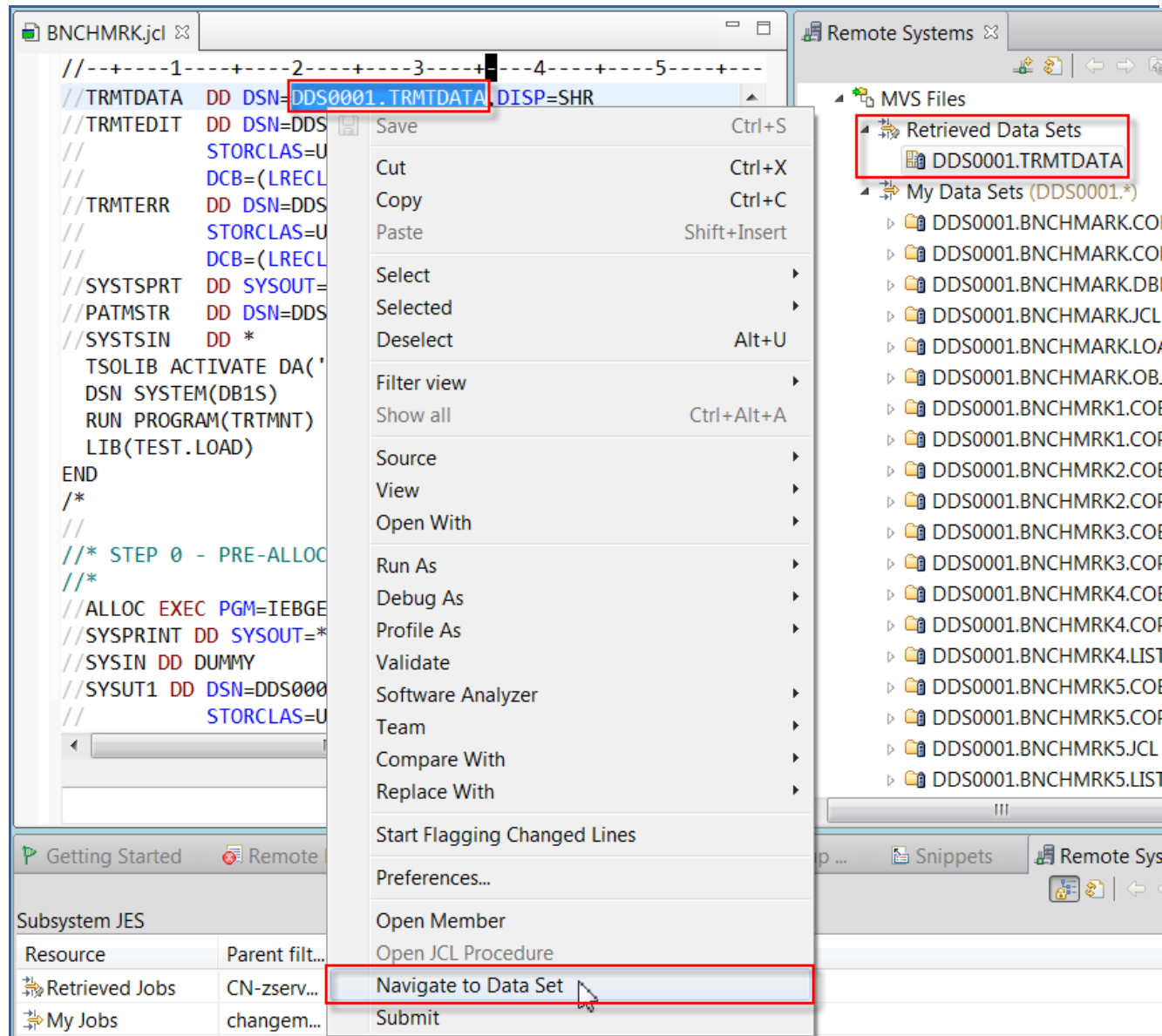
Navigating to DSNs – from within a JCL File

You can select multiple jobs in RSE and submit all selected.

Steps (from within the JCL):

- ▶ Select the DSN
- ▶ Right-click, and from the Context Menu select:
Navigate to Data Set

The DSN will show up under **Retrieved Data Sets**

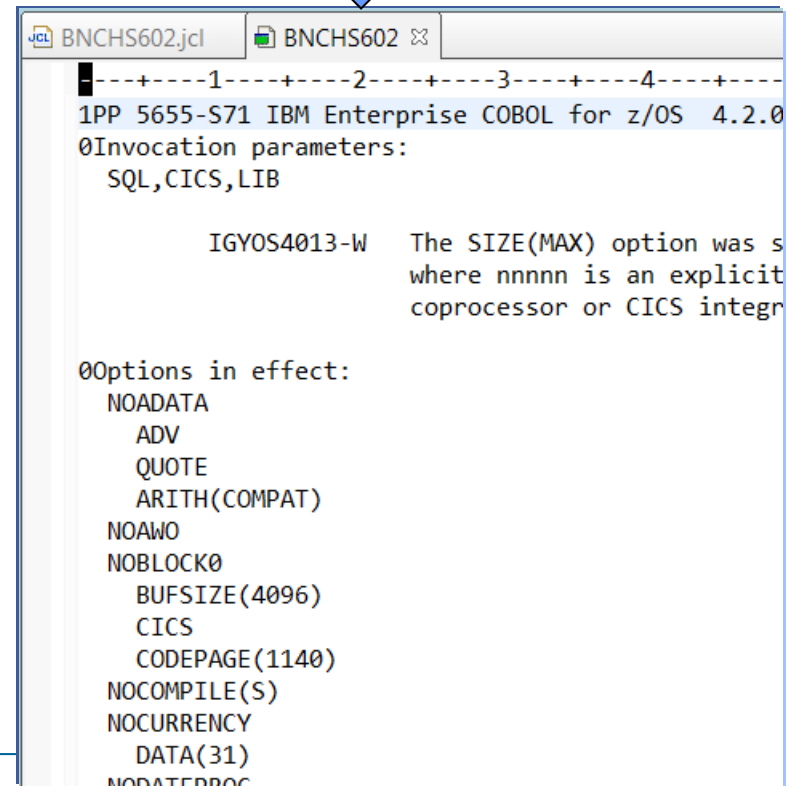
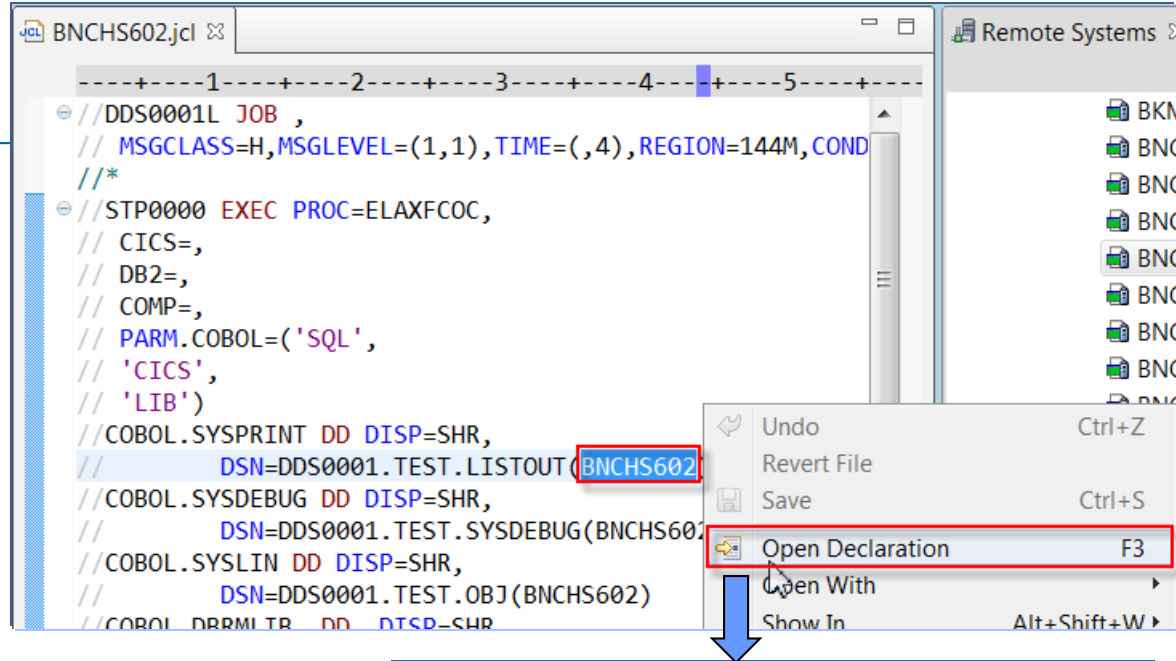


Open Declaration

- Using the new JCL Editor - you can open QSAM files out of a JCL source file using **Open Declaration**:

- ▶ Select just the member name
- ▶ Right-click and select: **Open Declaration**

- This opens the appropriate IDz editor for the z/OS Mapped File Type



Copy Job Output from JES

- **You may wish to copy the output of a job to some file for save/reuse**
 - **Open the Job** – and from inside editor press:
 - **Ctrl+A**then **Ctrl+C**
 - **Open receiving file** (in the example below Notepad – but could be an PDS member or QSAM file with (LRECL=133)) **and press: Ctrl+V**

```

JES2 JOB LOG -- SYSTEM MVSA --
06.59.30 JOB05231 ---- FRIDAY, 20 JUL 2012 ----
06.59.30 JOB05231 IRRO10I USERID DDS0001 IS ASSIGNED TO THIS JOB.
06.59.30 JOB05231 ICH70001I DDS0001 LAST ACCESS AT 05:52:14 ON FRIDAY,
06.59.30 JOB05231 $HASP373 DDS00011 STARTED - INIT 29 - CLASS A - SYS
06.59.30 JOB05231 IEF403I DDS00011 - STARTED - TIME=06.59.30
06.59.31 JOB05231 - --TIMINGS (M
06.59.31 JOB05231 -JOBNAME STEPNAME PROCSTEP RC EXCP CPU SRB
06.59.31 JOB05231 -DDS00011 STP0001 COBOL 04 1131 .00 .00
06.59.31 JOB05231 IEF404I DDS00011 - ENDED - TIME=06.59.31
06.59.31 JOB05231 -DDS00011 ENDED. NAME- TOTAL CPU
06.59.31 JOB05231 $HASP395 DDS00011 ENDED
----- JES2 JOB STATISTICS -----
20 JUL 2012 JOB EXECUTION DATE
31 CARDS READ
1,646 SYSOUT PRINT RECORDS
0 SYSOUT PUNCH RECORDS
107 SYSOUT SPOOL KBYTES
0.00 MINUTES EXECUTION
1 //DDS00011 JOB ,
// MSGCLASS=H,MSGLEVEL=1
2 //STP0001 EXEC PROC=ELC
// CICS=,
// DB2=,
// COMP=,
// PARM.COBOB=('SQL',
// 'CICS',
// 'NOC',
// 'LIB',
// 'ADATA',
// 'EX(ADX(ELAXMGUX))')
XX*****
XX* Licensed materials
XX* 5724-T07 © Copyright International Business Machines Corporation

```

```

DD50001L:JOB06829
DD50001L:JOB06815
DD50001L:JOB06751
DD50001D:JOB08539
DD50001L:JOB08533
DD50001L:JOB08526
DD50001L:JOB08507
DD50001D:JOB08475
DD50001L:JOB07502
DD50001L:JOB07429
DD50001A:JOB05288
DD50001A:JOB05287
DD50001L:JOB05235
DD50001L:JOB05231

```

Untitled - Notepad

File Edit Format View Help

TREATMNT SYSLIB DDS0001.TEST.COPYLIB

PP 5 IBM Enterprise COBOL for z/OS 4.2.0 TR

Line1 ge code Message text

05-W Warning message(s) were issued during lib

IGYDS0139-W Diagnostic messages were issued during p

beginning of the listing.

960 IGYSC0208-I DSNH050I DSNHPSRV WARNINGS HAVE

Messages Total Informational Warning Error Severe 1

Printed: 6 2 4

* Statistics for COBOL program TRTMNT:

* Source records = 1768