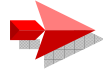


This is the tutorial for IBM's Fault Analyzer for z/OS®, one of the IBM zSeries® problem determination tools.

- **Fault Analyzer options in JCL for batch jobs**



- **Batch reanalysis**

- Example of batch reanalysis

- **Using the web browser interface**

- **Fault Analyzer tips**

In this section you will learn how to use a feature of the on-line interface called batch reanalysis that you can use generate a new, printable copy of a real-time report.

Batch reanalysis



What is batch reanalysis?

- A Fault Analyzer utility that runs as a batch job and generates an analysis report

Why do Batch reanalysis?

- To generate a new analysis report, so you can:
 - Apply a side file or compiler listing
 - Print the new reanalysis report
 - Or download and email it to someone

3

IBM Fault Analyzer for z/OS - V12 Tutorial

© 2012 IBM Corporation

Batch reanalysis is a fault analyzer utility that runs as a batch job and generates a new copy of an analysis report. There are a few reasons that you might use it. You could generate a fresh copy of a report if the original fault analysis report did not have source mapping information for a program. You can use it to generate a new copy of a report so you can print it, even for a CICS® abend. Or you can store a copy of an analysis report in a file so that you can download it, attach it in an email, and send it to a colleague.

Batch reanalysis options



File Options View Services Help

IBM F 2 1. Fault Analyzer Preferences... Line 1 Col 1 80
Comma 2. Batch Reanalysis Options... Scroll ==> HALF
Fault 3. Interactive Reanalysis Options...

{The following line commands are available: ? (Query), V or S (View saved report), I (Interactive reanalysis), B (Batch reanalysis), D (Delete), H (Duplicate history), C (Copy fault entry), M (Move fault entry), X (XMIT fault entry).}

Fault_ID	Job/Tran	Job_ID	Dups	User_ID	Sys/Job	Abend	Date	Class
					DEMOMVS	S0C7	2010/02/24	A
					DEMOMVS	U0001	2010/02/24	n/a
					DEMOMVS	S522	2010/02/24	n/a
F00924	DDS16343	STC16233		DDS1634	DEMOMVS	U0001	2010/02/24	n/a
F00923	ADPOT243	STC16305		ADPOT24	DEMOMVS	U0001	2010/02/24	n/a
F00922	WKIVA64R	JOB16318		DNET017	DEMOMVS	U0456	2010/02/24	A
F00921	DDS14943	STC16288		DDS1494	DEMOMVS	U0001	2010/02/24	n/a
F00920	DDS13783	STC16231		DDS1378	DEMOMVS	U0001	2010/02/24	n/a
F00919	DDS12513	STC16233		DDS1251	DEMOMVS	U0001	2010/02/24	n/a
F00918	DDS06603	STC16239		DDS0660	DEMOMVS	U0001	2010/02/24	n/a
F00917	DDS12511	JOB16247		DDS1251	DEMOMVS	S0CB	2010/02/24	n/a

Before you run batch reanalysis the first time, check your options settings

Enter

4 IBM Fault Analyzer for z/OS - V12 Tutorial © 2012 IBM Corporation

Before running a batch reanalysis for the first time, check your batch reanalysis options. Bring down the options menu, and select "Batch reanalysis options".

Batch reanalysis options settings **IBM**

You can provide options to point to side file or compiler listing libraries, and control report formatting.

```

File View Services Hel
Batch Reanalysis Options                               Line 1 Col 1 80
Command ==> _____ Scroll ==> HALF

Press PF3 to save options or PF12 to cancel.

General Options:
Options line for batch
reanalysis. . . . . : DATASETS (IDLILCOB (DNET845.ADLAB.LISTING))
Redisplay this panel
before each reanalysis. . . . . : Y (Y/N)
Display panel to edit
generated JCL . . . . . : Y (Y/N)
Job card style. . . . . : S (P=Parameters, S=Statements)

Job Card Statements:
==> // DNET845B JOB (ACCTG), 'IBM TOOLS WORKSHOP', REGION=4M, CLASS=A,
==> //          MSGCLASS=H, NOTIFY=&SYSUID, MSGLEVEL=(1,1)
==>
==>

Reanalysis Report:
Destination . . . . . : _____
  
```

Suggested settings

Enter a valid job card

F3

5 IBM Fault Analyzer for z/OS - V12 Tutorial © 2012 IBM Corporation

The batch reanalysis options panel is displayed. You can specify options, either on the "options line", or by specifying a file that contains options. Using an options file was described in the "Program source mapping " section. With the right options, source information can be found for your programs to enable source mapping in the report. To specify an options file, scroll down on this panel to see the field where you enter the data set name.

In the "Redisplay this panel before each reanalysis" option, a "Y" (for yes) was specified. And you may also prefer a "Y" in the "Display panel to edit generated JCL" option.

In the "Job card style" option, "S" (for Statements) is the suggested setting. If you change the job card option, press Enter before continuing. Provide a valid job card for your system. Do not just copy this one. Once the options are ready, press F3 to save your options and exit.

Select batch reanalysis



```
File Options View Services Help
IBM Fault Analyzer - Fault Entry List                               Line 1 Col 1 80
Command ==> _____ Scroll ==> HALF

Fault History File or View : 'FAULTANL.V10R1.HIST'

{The following line commands are available: ? (Query), V or S (View saved
report), I (Interactive reanalysis), B (Batch reanalysis), D (Delete), H
(Duplicate history), C (Copy fault entry), M (Move fault entry), X (XMIT fault
entry).}
```

Fault_ID	Job/Tran	Job_ID	Dups	User_ID	Sys/Job	Abend	Date	Class
b	F00927	DNET845X	JOB16403	DNET845	DEMOMVS	SOC7	2010/02/24	A
—	F00926	DDS16343	STC16328	DDS1634	DEMOMVS	U0001	2010/02/24	n/a
—	F00925	DDS0001	STC16327	DDS0001	DEMOMVS	S522	2010/02/24	n/a
—	F00924	DDS16343	STC16233	DDS1634	DEMOMVS	U0001	2010/02/24	n/a
—	F00923	ADPOT243	STC16305	ADPOT24	DEMOMVS	U0001	2010/02/24	n/a
—	F00922	WKIVA64R	JOB16318	DNET017	DEMOMVS	U0456	2010/02/24	A
—	F00921	DDS14943	STC16288	DDS1494	DEMOMVS	U0001	2010/02/24	n/a
—	F00920	DDS13783	STC16231	DDS1378	DEMOMVS	U0001	2010/02/24	n/a
—	F00919	DDS12513	STC16233	DDS1251	DEMOMVS	U0001	2010/02/24	n/a
—	F00918	DDS06603	STC16239	DDS0660	DEMOMVS	U0001	2010/02/24	n/a
—	F00917	DDS12511	JOB16247	DDS1251	DEMOMVS	SOCB	2010/02/24	n/a

Enter

6 | IBM Fault Analyzer for z/OS - V12 Tutorial | © 2012 IBM Corporation

Enter a B (for Batch Reanalysis) line command next to the abend.

Batch reanalysis options panel is redisplayed



```
File View Services Help
Batch Reanalysis Options Line 1 Col 1 80
Command ==> Scroll ==> HALF
Press PF3 to save options or PF12 to cancel
General Options:
Options line for batch
reanalysis. . . . . : DATASETS (IDLILCOB (DNET845.ADLAB.LISTING))
Redisplay this panel
before each reanalysis. . . . . : Y (Y/N)
Display panel to edit
generated JCL . . . . . : Y (Y/N)
Job card style. . . . . : S (P=Parameters, S=Statements)
Job Card Statements:
==> //DNET845B JOB (ACCTG), 'IBM TOOLS WORKSHOP', REGION=4M, CLASS=A,
==> //          MSGCLASS=H, NOTIFY=&SYSUID, MSGLEVEL=(1,1)
==>
==>
Reanalysis Report:
Destination . . . . . :
F3
```

The options panel is automatically displayed if you have **this** setting.

If you requested it in your options, you will see your batch reanalysis options panel again. It is displayed in this example because there is a “Y” in the “Redisplay this panel before each reanalysis” option. The options are ready, so press F3 to continue.

JCL is automatically generated, submit the job



```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DNET845.SPFTEMP1.CNTL      Enter SUB to submit
Command ==> sub                      Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>          your edit profile using the command RECOVERY ON.
000001 //DNET845B JOB (ACCTG), 'IBM TOOLS WORKSHOP', REGION=4M, CLASS=A,
000002 //          MSGCLASS=H, NOTIFY=&SYSUID, MSGLEVEL=(1,1)
000003 //RUNDA   EXEC PGM=IDIDA,
000004 // PARM=(' /FAULTID(F00927) ',
000005 //          'DATASETS (IDLILCOB(DNET845.ADLAB.LISTING))' ,
000006 //          )
000007 //STEPLIB DD DISP=SHR, DSN=DNET845.ADLAB.LOAD
000008 //          DD DISP=SHR, DSN=DNET845.ADLAB.LOAD
000009 //          DD DISP=SHR, DSN=CEE.SCEERUN
000010 //IDIHIST DD DISP=SHR, DSN=FAULTANL.V10R1.HIST
000011 //SYSPRINT DD SYSOUT=*
***** ***** Bottom of Data *****
```

Enter

8 | IBM Fault Analyzer for z/OS - V12 Tutorial | © 2012 IBM Corporation

Fault analyzer automatically generated JCL to run the batch reanalysis. In the options, a “Y” was specified in the field named “Display panel to edit generated JCL”, which is why the JCL is displayed now. To run the job, type a SUBmit command, and press enter.

After the job runs, view the output



```
Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB DNET845A (JOB16409)   LINE 1-4 (4)
COMMAND INPUT ===>                                SCROLL ===> HALF
NP  DDNAME  StepName ProcStep DSID Owner   C Dest           Rec-Cnt Page
   JESMSGLG JES2          2 DNET845 A LOCAL          20
   JESJCL   JES2          3 DNET845 A LOCAL          12
   JESYSMSG JES2          4 DNET845 A LOCAL          51
   SYSPRINT RUNDA        101 DNET845 A LOCAL        1,195
```

9

Enter

IBM Fault Analyzer for z/OS - V12 Tutorial © 2012 IBM Corporation

After the job runs, the new analysis report is in the JES queue. From here you can route it to a printer or save it to a file. Here it is selected for viewing.

After job runs, view the report in sysout



```
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY DNET845A JOB16409 DSID 101 LINE 0 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> HALF
***** TOP OF DATA *****
*****
* IBM Fault Analyzer for z/OS V10R1M0 (HADQA10 2009/10/22) *
* * * * *
* Copyright IBM Corp. 2000, 2009. All rights reserved. *
*****

JOBNAME: DNET845X SYSTEM ABEND: 0C7 DEMOMVS 2010/02/24 23:18:55

<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 0C7 occurred in module SAM2 program SAM2 at offset X'39A'.

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

A decimal digit or sign was invalid.
```

The analysis report is displayed.

That is the end of this section, using the fault analyzer batch reanalysis function.

Feedback



Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send email feedback:

mailto:iea@us.ibm.com?subject=Feedback_about_FAv12s11BatchReanalysis.ppt

This module is also available in PDF format at: [../FAv12s11BatchReanalysis.pdf](..FAv12s11BatchReanalysis.pdf)

You can help improve the quality of IBM Education Assistant content by providing feedback.



Trademarks, copyrights, and disclaimers

IBM, the IBM logo, ibm.com, CICS, z/OS, and zSeries are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at <http://www.ibm.com/legal/copytrade.shtml>

Other company, product, or service names may be trademarks or service marks of others.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION 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 ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2012. All rights reserved.