

IBM InfoSphere DataStage

Job level tracing



This module provides details regarding how to implement job level tracing using DataStage® V7.5, 8.0.1, and 8.1.

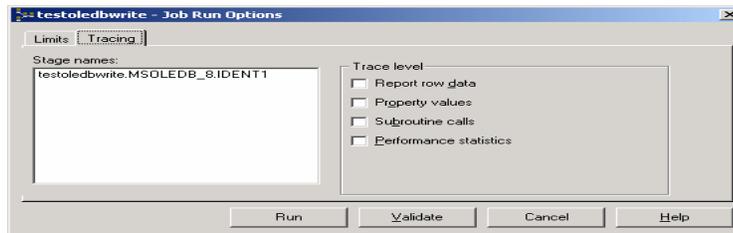
Job tracing (1 of 2)

- Job tracing
 - Trace on a per job basis
 - Trace is a one time only trace
 - Can set details of the trace
 - Entries are logged in the &PH& directory in the project

One tracing technique is to trace your job run. This type of trace is enabled on a per job, one time only basis. To rerun the job again with tracing on, it is necessary to re-enable tracing. The level of trace detail can be set within the Director. Entries for the job level trace are put in the &PH& directory in the project.

Job tracing (2 of 2)

- Select job to trace
- Select tracing tab
- Determine what is to be traced
- Choose stage name
- Check level of detail



3

Job level tracing

© 2010 IBM Corporation

This slide displays an example of turning on job level tracing. Select a job that you want to trace in the Director and click run. Within the Job Run Options dialog box select the tracing tab. This is where you will determine what is to be traced. It is necessary to choose a stage name to be traced. Check the level of detail that you want to see within the trace file. If you do not pick a stage name and just check the trace levels, nothing is written to the log. You must select a stage to trace to get tracing output.



Job tracing log

```
Stage Name      SampleSeqJob.InFile
Open Subroutine  DSD.SEQOpen
Get Subroutine  $DS.SEQGETNEXT
Put Subroutine
Close Subroutine      DSD.SEQClose
Sequential file  #filename#
Quote character  "; Record delimiter :^013^010, Column delimiter ;,
Lookahead buffer bound to STAGECOM.ARR(1)
Column 1(MyCol1) bound to STAGECOM.ARR(1)
Column 2(MyCol2) bound to STAGECOM.ARR(2)
Column 3(MyCol3) bound to STAGECOM.ARR(3)
SampleSeqJob..Sequential_File_1.: DSD.SEQOpen called. Handle = 2.
SampleSeqJob..Sequential_File_1: DSD.ReplaceParams called.
SampleSeqJob..Sequential_File_1: DSD.ReplaceParams called.
SampleSeqJob..Sequential_File_1: DSD.ReplaceParams called.
```

This slide displays an example of a trace log from a job where all trace levels were selected. The stage name, what subroutines it is calling, property values, and more are listed within the job tracing log.



Job tracing log

```
Put Subroutine  $DS.SEQPUP
Close Subroutine DSD.SEQCclose
Sequential file  Fileout.txt
Quote character .:, Record delimiter :^013^010, Column delimiter :,
Options = Appending
Lookahead buffer bound to STAGECOM.ARR(5)
Column 1(MyCol) bound to STAGECOM.ARR(1)
Column 2(MyCol2) bound to STAGECOM.ARR(2)
Column 3(MyCol3) bound to STAGECOM.ARR(3)
SampleSeqJob..Intrans: DSD.InWave called. Resources = SampleSeqJob..Sequential_File_1.DSLink2, Wave = 2
SampleSeqJob..Intrans.DSLink4: Input row 1 = "ABC",10,1234567890
SampleSeqJob..Intrans.DSLink2: Output row 1 = "ABC",10,1234567890
SampleSeqJob..Intrans.DSLink4: Input row 2 = "BEF",14,12345678901234
SampleSeqJob..Intrans.DSLink2: Output row 2 = "BEF",14,12345678901234
SampleSeqJob..Intrans.DSLink4: Input row 3 = "CEF",15,123456789012345
SampleSeqJob..Intrans.DSLink2: Output row 3 = "CEF",15,123456789012345
SampleSeqJob..Intrans.DSLink4: Input row 4 = "HIJ",16,1234567890123456
SampleSeqJob..Intrans.DSLink2: Output row 4 = "HIJ",16,1234567890123456
SampleSeqJob..Intrans.DSLink4: Input row 5 = "KLM",17,12345678901234567
SampleSeqJob..Intrans.DSLink2: Output row 5 = "KLM",17,12345678901234567
SampleSeqJob..Intrans: DSD.EndOfTrans - end of transmission block 1
SampleSeqJob..InFile.DSLink4: DSD.SEQCclose called. Handle = 1.
SampleSeqJob..InFile.DSLink4: Primary Input Closed.
SampleSeqJob..Sequential_File_1.DSLink2: DSD.SEQCclose called. Handle = 2.
SampleSeqJob..Sequential_File_1.DSLink2: Output Closed.
SampleSeqJob..Intrans: DSD.StageRun Active stage finishing.75 rows read from DSLink475 rows written to DSLink270.047 CPU seconds used, 0.234 seconds
elapsed.
5 Job level tracing © 2010 IBM Corporation
```

This slide shows in this part of the job tracing log the row data.



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 e-mail feedback:

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

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

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



Trademarks, disclaimer, and copyright information

IBM, the IBM logo, ibm.com, and DataStage 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>

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 2010. All rights reserved.