

IBM InfoSphere DataStage

Job level tracing



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

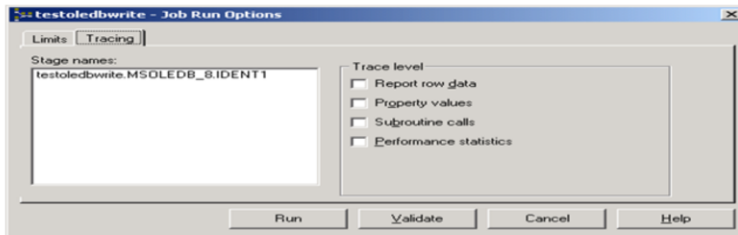
Job tracing (1 of 2)

- 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

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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.SEQPUT
Close SubroutineDSD.SEQClose
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.SEQClose called. Handle = 1.
SampleSeqJob.InFile.DSLink4: Primary Input Closed.
SampleSeqJob.Sequential_File_1.DSLink2:DSD.SEQClose called. Handle = 2.
SampleSeqJob.Sequential_File_1.DSLink2: Output Closed.
SampleSeqJob.Intrans:DSD.StageRun Active stage finishing.75 rows read from DSLink4?5 rows written to DSLink2?0.047 CPU seconds used, 0.234 seconds
elapsed.
5 Job level tracing
```

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

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