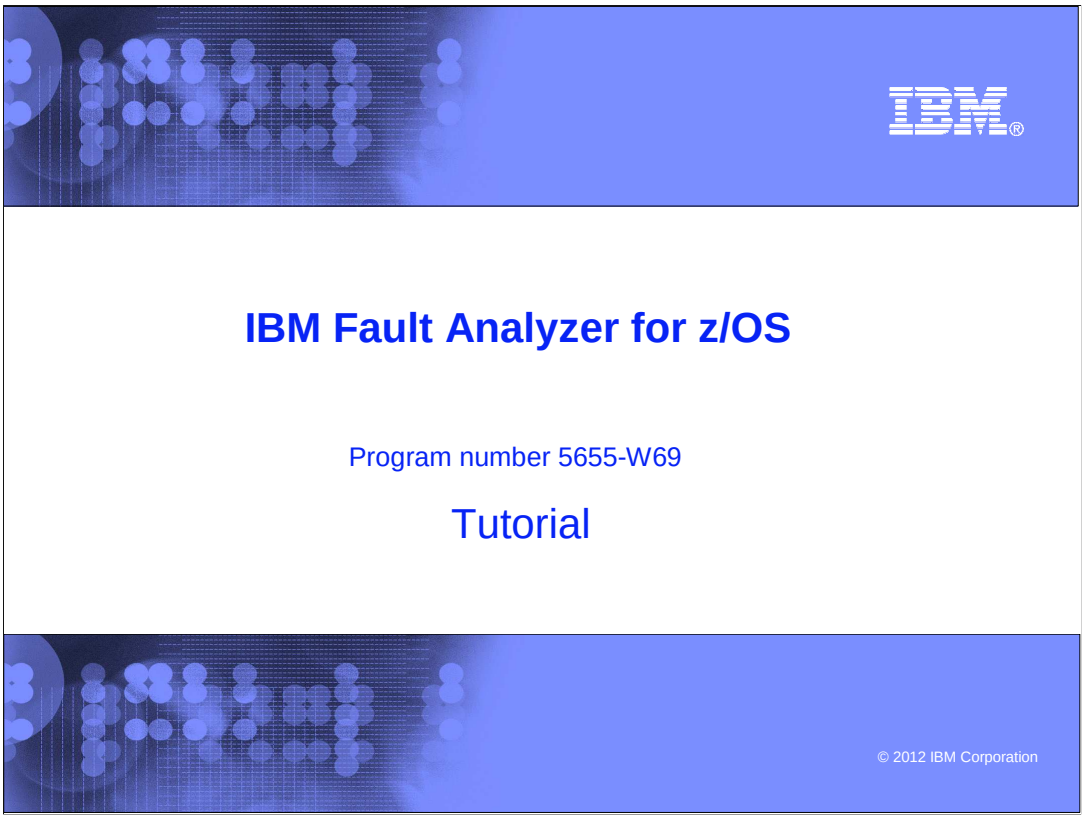
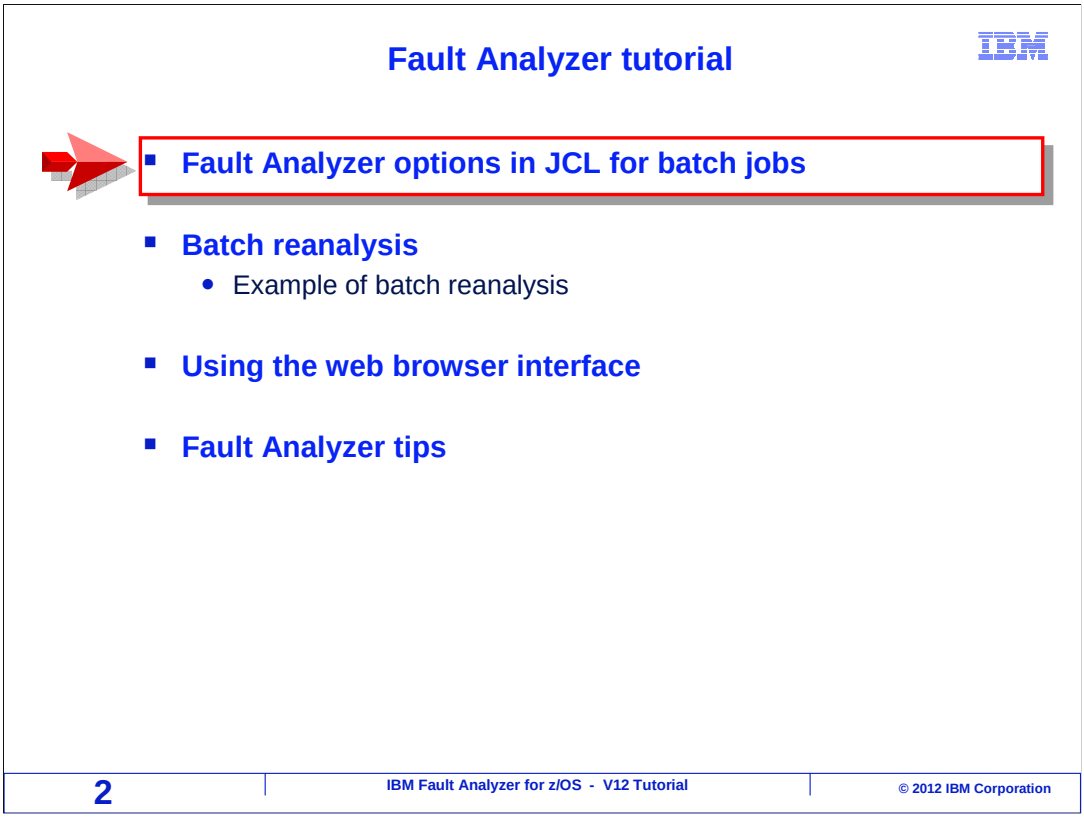


This is the tutorial for IBM's Fault Analyzer for z/OS®, one of the IBM zSeries® problem determination tools.

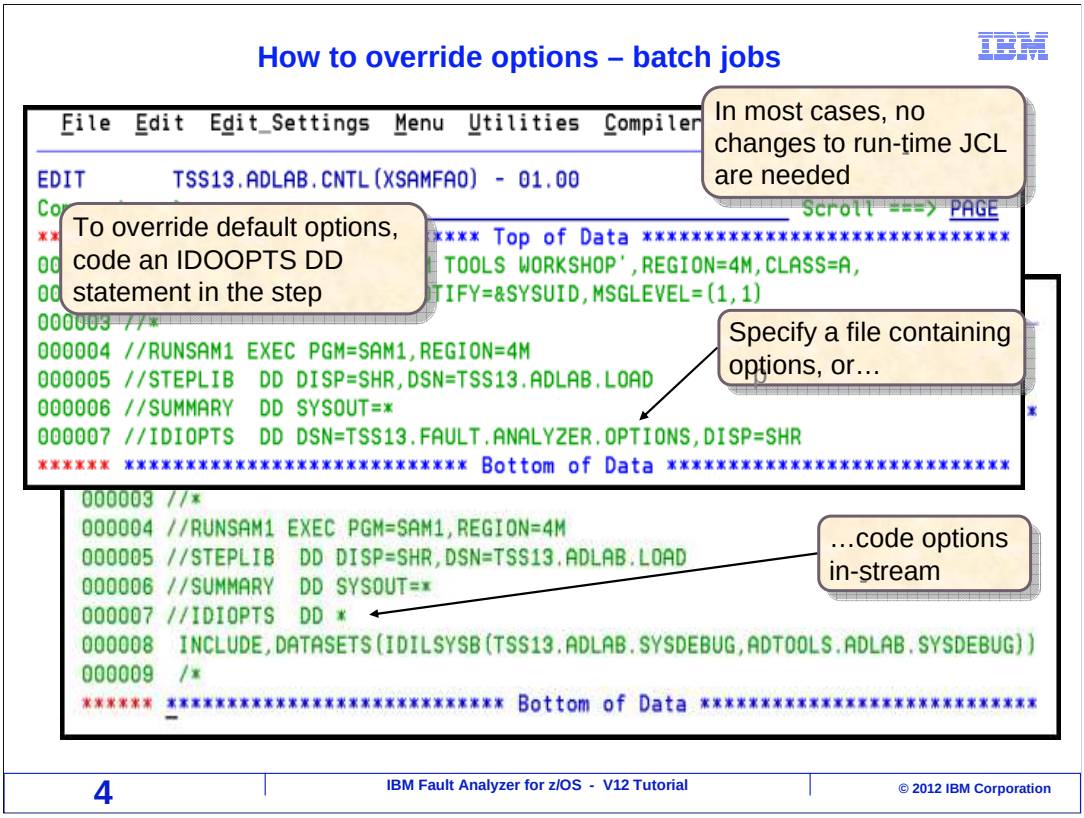


In this section, you will see how to code Fault Analyzer options in JCL for batch programs.

Fault analyzer options

- System-wide options for your system are customized as part of the Fault Analyzer installation process
  - stored in PARMLIB member IDICNF00 by default
- You can specify options to override the defaults for a batch job step
- Typically, it is not necessary to override options
  - If you are required to override options for Fault Analyzer to capture your abends, contact the installer
    - There may be system-level options that need to be customized

The person who installs fault analyzer will set up system-wide options. By default, the system options are stored in the z/OS system parmlib, in a member called IDICNF00, although they can be elsewhere. You can override the default options for a batch job by coding special DD statements. For details about the syntax used when coding options, see the fault analyzer user's guide.



Typically, you should not have to make any changes to your JCL to use fault analyzer with any batch job. If you find that you have to make frequent JCL changes to make fault analyzer work, there could be an installation problem. It may be worthwhile to call your systems programmer see if the default options can be set up better.

One way to override the system options in a batch job is to code an IDIOPTS DD statement in your JCL. As in these examples, you can either specify an options file or code in-stream options. If the step abends, fault analyzer automatically uses the options. If the step does not abend, IDIOPTS is a do-nothing DD statement - it does not have any effect at all.

Even though for batch jobs, you should not have to make any JCL changes for fault analyzer, there are two ways to specify options. The first way is to use an IDIOPTS DD statement as was just described.

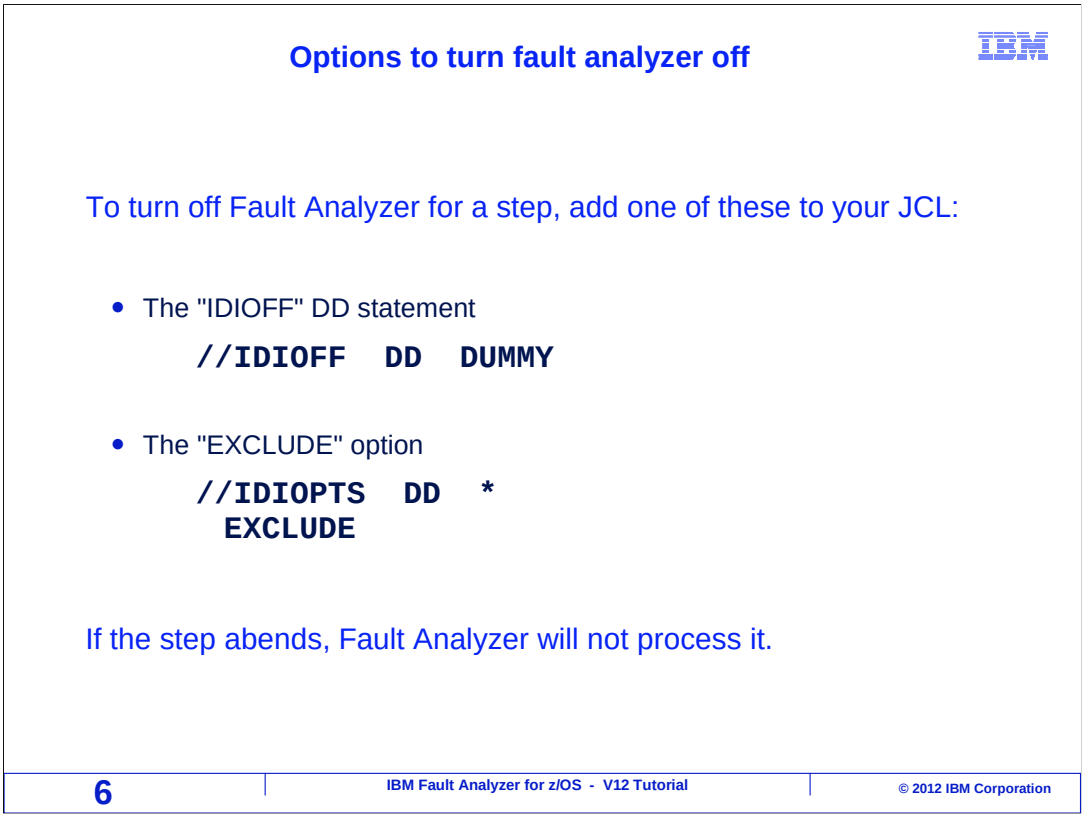
How to override options – batch jobs

- Another way to override options is to use special Fault Analyzer DD statements.
  - This has the same effect as specifying the DATASETS option in IDIOPTS
- Each DD statement must reference PDS or PDSE datasets:

//IDIHIST DD …	Fault history file
//IDISYSDB DD …	Sysdebug files for all languages
//IDILC DD …	C compiler listings
//IDILCOB DD …	COBOL compiler listings (not OS/VS)
//IDILCOBO DD …	OS/VS COBOL compiler listings
//IDILPLI DD …	PL/I compiler listings
//IDIADATA DD …	Assembler sysadata file
//IDILANGX DD …	Langx files for all languages

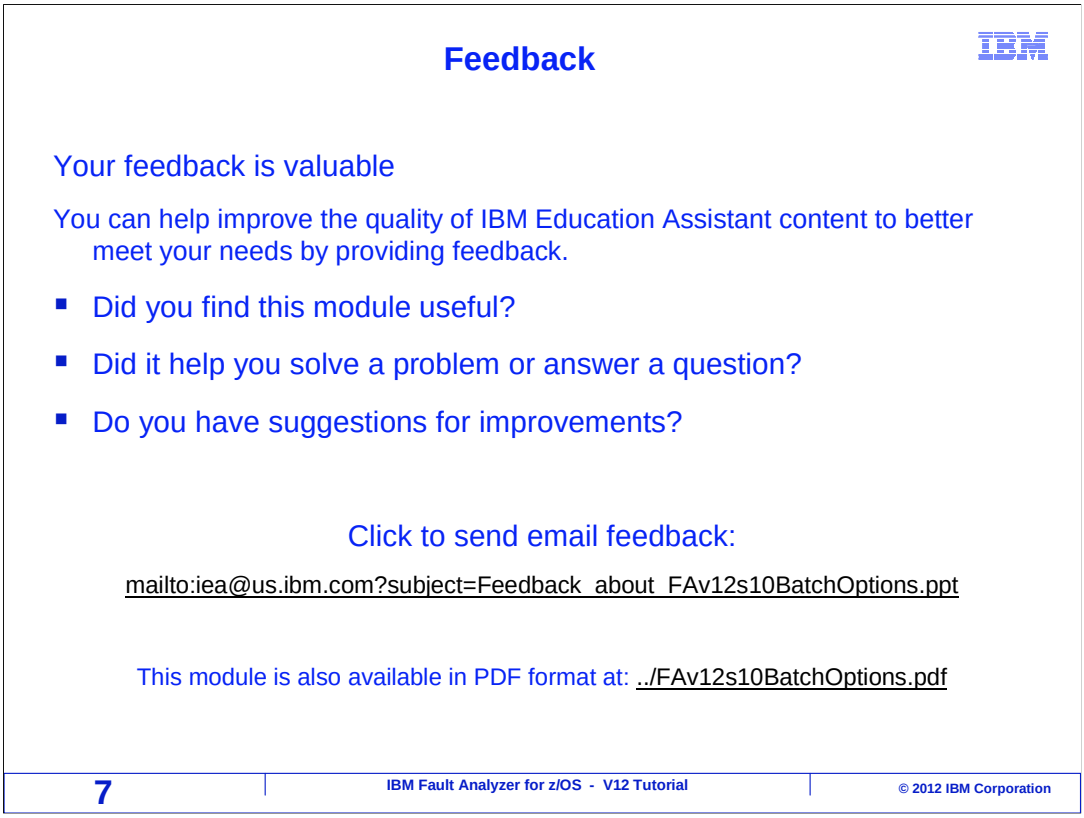
- If a job step does not abend, FA options / DDs are ignored

The other way to override options for a batch job is to code any of several special fault analyzer DD statements in your JCL. For example, an IDIHIST DD specifies a fault history file. If you have it in your JCL, and the step abends, than fault analyzer will store the fault entry into that fault history file. This lets you have your own personal fault history file, if you want one. Some of the other fault analyzer DD statements are shown. For example, an IDISYSDB DD statement can be used to specify one or more SYSDEBUG libraries to be searched automatically for source mapping files.



There are a couple of ways that you can turn fault analyzer off for a job step. You might want to do this if you have an application that abends itself intentionally for reasons that are well known, and you want to avoid fault analysis overhead. You can either code an IDIOFF DD DUMMY statement, or code an IDIOPTS DD, and specify the EXCLUDE option. With either of these coded in a job step, fault analyzer will not collect information if it abends.

That is the end of this section, overriding fault analyzer options in JCL for batch jobs.



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