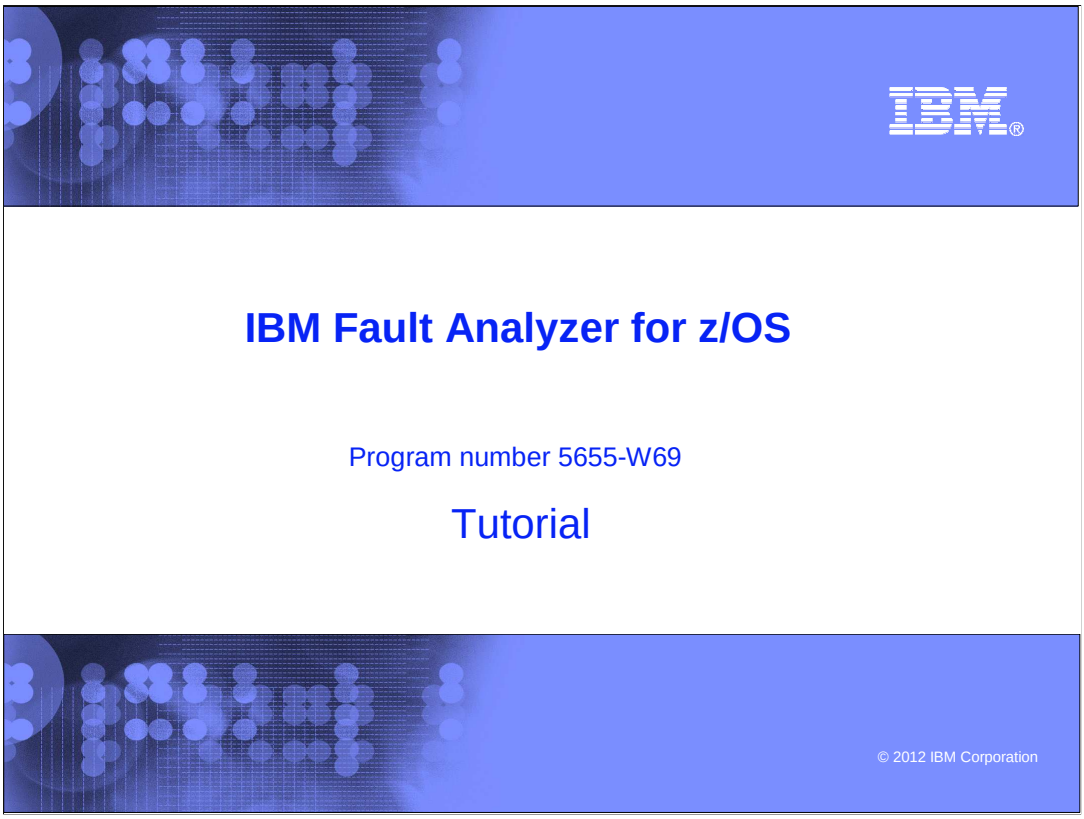
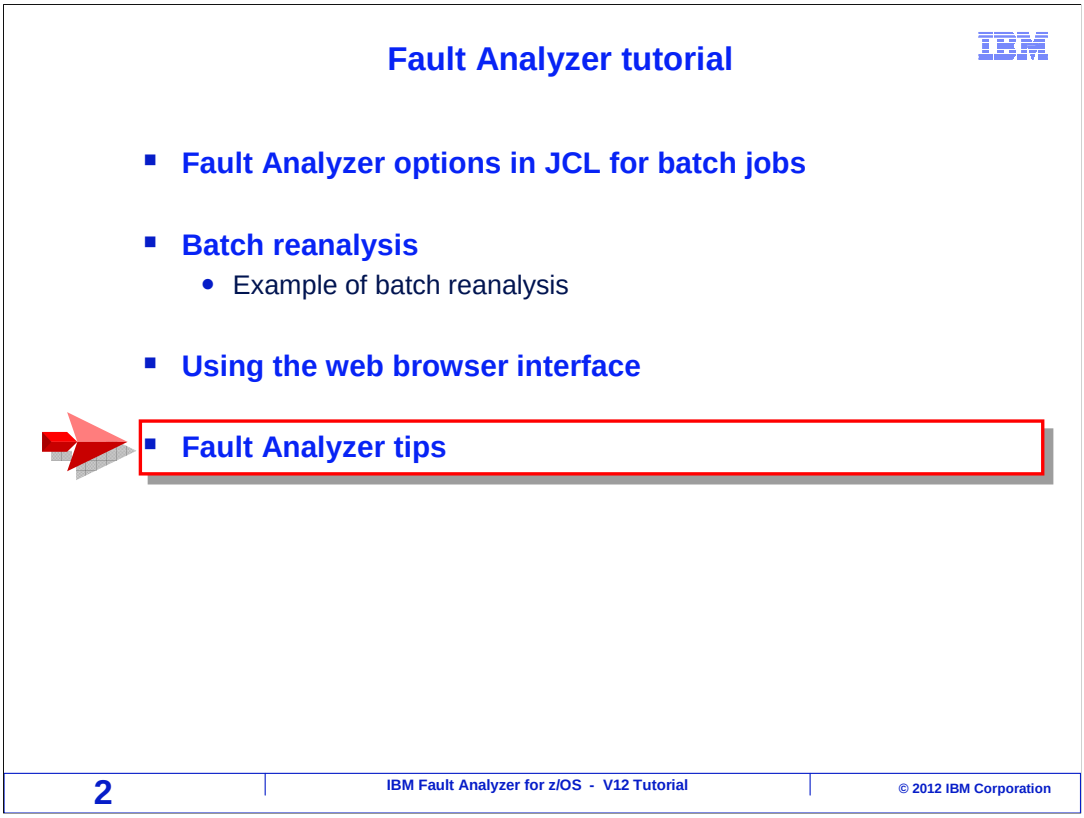


This is the tutorial for IBM's Fault Analyzer for z/OS®, one of the IBM zSeries® problem determination tools.



In this section you will see a few other hints and tips for Fault Analyzer.

Trace the source library search

- Add an IDITRACE DD to get trace information about why a particular compiler listing or side file was selected or rejected
  - **`//IDITRACE DD SYSOUT=*`**
- Sample output

```
Listing/Side-file search trace for COBMST5
   LE compile date 2010-12-17 time 16-11-10
   DA.WDBLANGX
            Rejected - Member not found
            Rejected - Member not found
   PATRICK.LISTING.COBOL
            Accepted - Timestamp valid, size test valid
                     - Timestamp date 2010-12-17 time 16.11.10
   DA.LISTING.COBOL
            - Search not required. LISTSEARCH(BEST) satisfied
            - Search not required. LISTSEARCH(BEST) satisfied
```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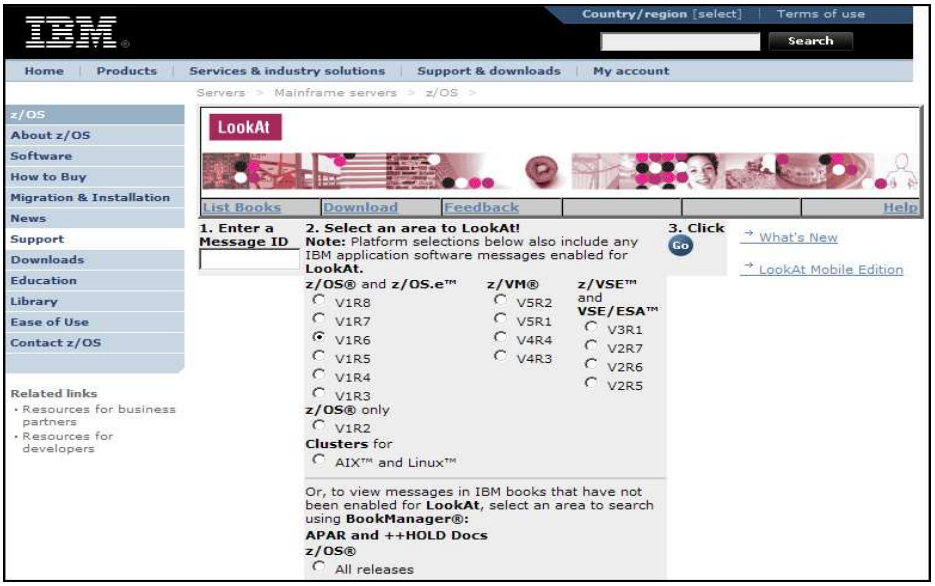
You can request a trace to see why fault analyzer either used or rejected a side file or compiler listing. Consider doing this if you specified a file for source mapping, but it was not used, and you want to find out why.

Code an IDITRACE DD statement in your batch JCL before you run it, or allocate an IDITRACE DD to your TSO region before you perform a reanalysis.

Look up messages and codes on IBM's "LOOKAT" web site

- Go to www.ibm.com, and search for "LOOKAT"



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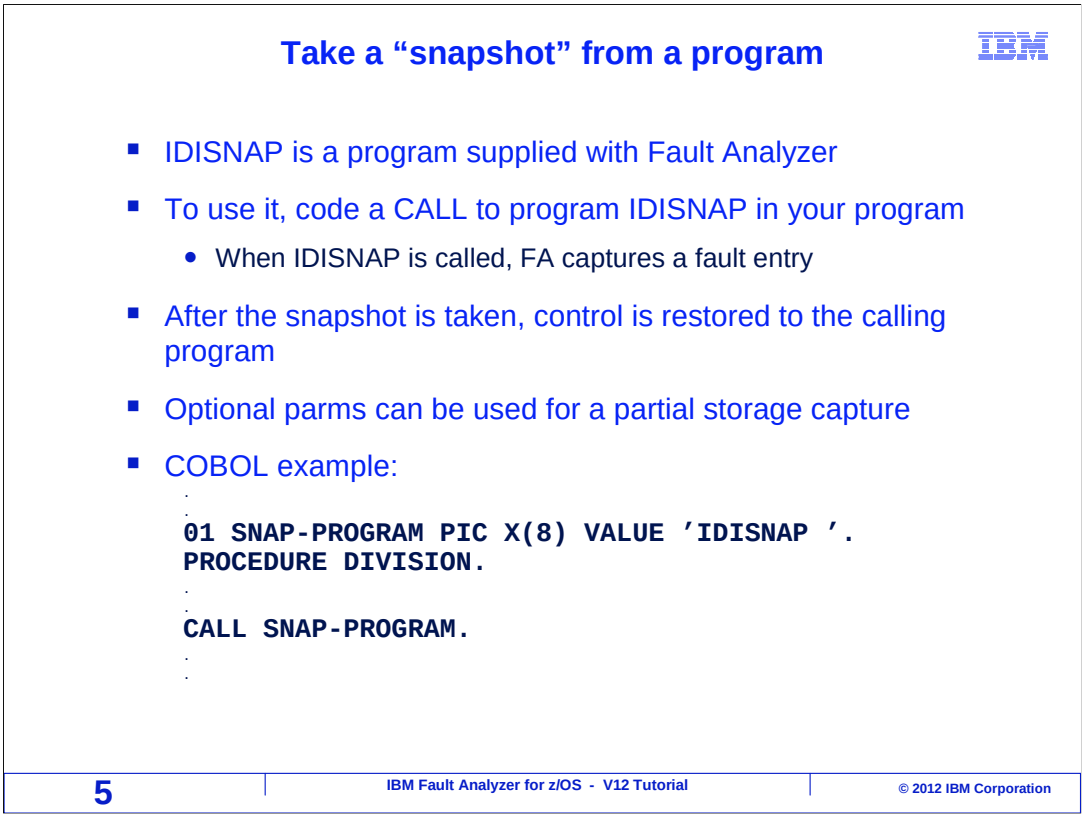
There is a free page on the IBM web site called LOOKAT. Direct a browser to ibm.com and search for LOOKAT. You can use it to look up messages and codes that you get on z/OS systems. Type in the error code in the search box and click GO. It is tied to a lot of the IBM z/OS software error manuals, and it is an easy way to get explanations for error codes.



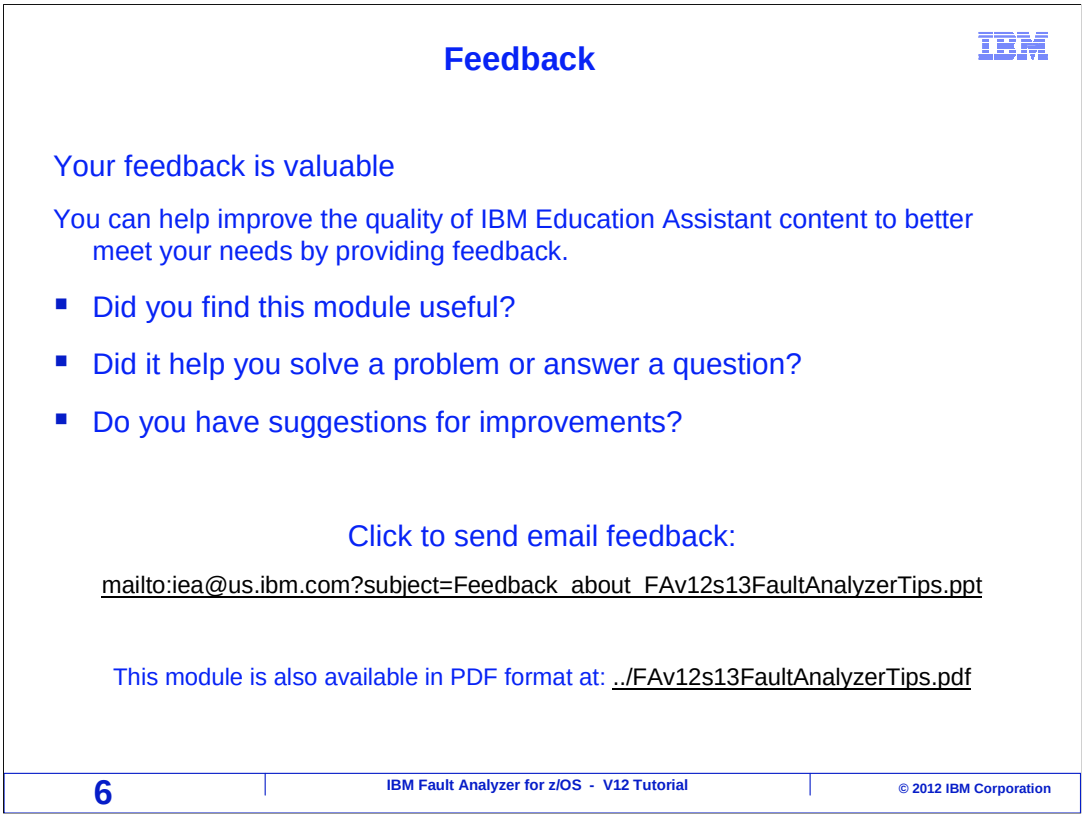
Fault analyzer provides a special utility subroutine called IDISNAP. You can CALL it from your own programs to take what Fault analyzer calls a **snapshot**.

Your program calls IDISNAP, which invokes Fault Analyzer. Fault analyzer performs its **analysis**, generates a real-time report, and stores a complete **fault entry** in a fault history file. After it finishes, control is **returned** to your program, which continues to run.

This is an API to Fault analyzer. COBOL statements are shown, and you can also call it from other languages. By default, it collects complete information, just as if the program had abended. But there are optional parameters that tell it to capture only certain areas of storage. Consider coding a call to IDISNAP in standard abnormal termination routines, if the termination routine does not actually abend. That way, you will have **debugging** information available.

Here are couple of tips before you use it. Do not code it into a **loop** in your program. That is a fast way to fill up a history file. And it will not make you any new friends with the other people who had abends in the history file. Consider using your own fault history file, which you can do by coding an IDIHIST DD statement in your JCL.

That is the end of this section, Fault Analyzer tips.



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