IDB

Category: Program Development Tools

DRAFT

This article is being reviewed for completeness and technical accuracy.

The Intel Debugger is a symbolic source code debugger that debugs programs compiled by the Intel Fortran and C/C++ Compiler, and the GNU compilers (gcc, g++).

IDB is included in the Intel compiler distribution. For IA-64 systems such as Columbia, both the Intel 10.x and 11.x compiler distributions provide only an IDB command-line interface. To use IDB on Columbia, load an Intel 10.x or 11.x compiler module. For example:

```
%module load intel-comp.11.1.072
%idb
(idb)
```

For Intel 64 systems such as Pleiades, a command-line interface is provided in the 10.x distribution and is invoked with the command *idb* just like on Columbia. For the Intel 11.x compilers, both a graphical user interface (GUI), which requires a Java Runtime, and a command-line interface are provided. The command *idb* invokes the GUI interface by default. To use the command-line interface under 11.x compilers, use the command *idbc*. For example:

```
%module load comp-intel/11.1.072 jvm/jre1.6.0_20
%idb
.... This will bring up an IDB GUI ....

%module load comp-intel/11.1.072
%idbc
(idb)
```

Be sure to compile your code with the *-g* option for symbolic debugging.

Depending on the Intel compiler distributions, the Intel Debugger can operate in either the gdb mode, dbx mode or idb mode. The available commands under these modes are different.

For information on IDB in the 10.x distribution, read **man idb**.

For information on IDB in the 11.x distribution, read documentations under *pfe or cfe2:/nasa/intel/Compiler/11.1/072/Documentation/en_US/idb*

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