

IDB

Category: Program Development Tools

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`

Article ID: 96

Last updated: 14 Dec, 2012

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