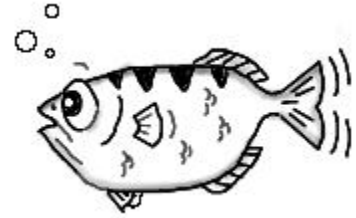


GDB: The GNU Project Debugger



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GDB: The GNU Project Debugger

What is GDB?

GDB, the GNU Project debugger, allows you to see what is going on 'inside' another program while it executes -- or what another program was doing at the moment it crashed.

GDB can do four main kinds of things (plus other things in support of these) to help you catch bugs in the act:

- Start your program, specifying anything that might affect its behavior.
- Make your program stop on specified conditions.
- Examine what has happened, when your program has stopped.
- Change things in your program, so you can experiment with correcting the effects of one bug and go on to learn about another.

The program being debugged can be written in Ada, C, C++, Objective-C, Pascal (and many other languages). Those programs might be executing on the same machine as GDB (native) or on another machine (remote). GDB can run on most popular UNIX and Microsoft Windows variants.

GDB version 7.3.1

Version [7.3.1](#) of GDB, the GNU Debugger, is now available for [download](#). See the [ANNOUNCEMENT](#) for details including changes in this release.

An errata list ([PROBLEMS](#)) and [documentation](#) are also available.

[FSF's Position regarding SCO's attacks on Free Software](#)

News

September 30, 2011: **Release Mistakes in GDB Versions 6.0 - 7.3**

A mistake has been detected in the release tar files for all GDB releases from version 6.0 to version 7.3 (included). The mistake has been corrected, and the FSF issued the following announcements:

- [Making up for a release mistake in GDB versions 6.0 - 6.6](#)
- [Making up for a release mistake in GDB versions 6.7 - 7.3](#)

September 4, 2011: **GDB 7.3.1 Released!**

The latest version of GDB, version 7.3.1, is available for [download](#).

This is a minor corrective release over GDB 7.3 mostly bringing:

- Build fixes for NetBSD / OpenBSD targets
- ISBN and Edition number update of the GDB User's Manual

July 26, 2011: **GDB 7.3 Released!**

The latest version of GDB, version 7.3, is available for [download](#).

Changes in this release include:

- Initial OpenCL C support
- C++ support enhancements
- Improved Python support
- ia64 HP-UX (native) and Blackfin (target) support
- GDBserver support for PowerPC LynxOS, i686 LynxOS, and Blackfin Linux
- Support for reading and writing a new .gdb_index section, containing a fast index of DWARF debugging info

See the NEWS file for a more complete and detailed list of what this release includes.

April 03, 2011: **GDB 7.3 branch created**

The GDB 7.3 branch (gdb_7_3-branch) has been created. To check out a copy of the branch use:

```
cvs -d :pserver:anoncvs@sourceware.org:/cvs/src co -r gdb_7_3-branch gdb
```

September 02, 2010: **GDB 7.2 Released!**

The latest version of GDB, version 7.2, is available for [download](#).

Changes in this release include:

- D language support
- C++ support enhancements
- Improved Python support
- Tracepoint support enhancements, GDBserver support for tracepoints
- GDBserver support for x86_64 Windows debugging
- ARM Symbian support
- Hardware-assisted watchpoint conditions on powerpc-linux

See the NEWS file for a more complete and detailed list of what this release includes.

Nov 28, 2006: **Reversible Debugging**

The GDB maintainers are looking for contributors interested in [reversible debugging](#).

Late breaking information, such as recently added features, can be found in the [NEWS](#) file in the gdb source tree. Old announcements are in the news [archive](#).

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Please send FSF & GNU inquiries & questions to gnu@gnu.org. There are also [other ways to contact the FSF](#).

This page is maintained by [the GDB developers](#).

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