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What is DDD?

GNU DDD is a graphical front-end for command-line debuggers such as [GDB](#), [DBX](#), WDB, [Ladebug](#), JDB, XDB, [the Perl debugger](#), the bash debugger [bashdb](#), the GNU Make debugger [remake](#), or the Python debugger [pydb](#). Besides "usual" front-end features such as viewing source texts, DDD has become famous through its interactive graphical data display, where data structures are displayed as graphs.



For more information (and more screenshots), see the [DDD Manual](#).

DDD News

- **(2009/02/11) DDD 3.3.12 is now available from <ftp.gnu.org>.** DDD 3.3.12 features much improved support for debugging Python, Bash and Make, as well as various bug fixes.
- **(2008/11/07) Release candidate 3.3.12-rc1 is available.** DDD can now be used effectively to debug Python, Bash and Makefiles. You can grab the new release candidate from alpha.gnu.org. The source tarball is signed with the maintainer's GPG public key, which you can download from [Savannah](#).
- **(2008/10/22) DDD has a bug tracker on Savannah.** The [bug tracker](#) is the best way to report bugs (use "Bugs" on the toolbar, and "Submit"). You are encouraged to login, but you can post bug anonymously if you want. Posting directly to the bug-ddd mailing list is now deprecated, since the tracker is a much more powerful way to organise the information. Please follow the

instructions for [bug reporting](#).

- **(2008/10/19) Jose Maria Gomez Vergara has handed maintainership of DDD to Peter Wainwright.**
- [Older News](#).

Where do I get DDD source?

DDD can be found at </gnu/ddd/> on <ftp.gnu.org>, on [Savannah](#) or at any GNU FTP [mirror](#) near you. The `ddd/` directory contains the *DDD source distribution*:

`ddd-version.tar.gz` -- this package is the one you want. It includes

- the complete DDD source code,
- building instructions, as well as
- the DDD manual in TeXinfo, Info, PostScript, and PDF formats.

[Here](#) are further [instructions on how to download and unpack GNU packages](#).

You can support the principle of software freedom by buying stuff from the [FSF shop](#).

Where do I get DDD binaries?

The FSF does not distribute DDD binaries. You can [ask for help](#) if you need technical support.

DDD binaries for [GNU/Linux](#) are typically available via your GNU/Linux distributor:

- DDD packages for Debian GNU/Linux are found [here](#).
- DDD RPMs can be found in <http://rpmfind.net/linux/rpm2html/search.php?query=ddd>.

[The written word](#) provides binaries of freely available software for various platforms. Their [FTP server](#) contains DDD and XPM packages.

What do I need to build DDD?

To build DDD from sources, you need

- The [DDD source distribution](#) (see above).
- The [GNU compiler collection \(GCC\)](#), version 3.0 or higher (or another ISO C++ compiler).
- The [LessTif](#) user interface toolkit, version 0.89 or higher (or another Motif-compatible user interface toolkit).

The simplest way to build and install DDD is:

1. Unpack the DDD source distribution
2. Change into the `ddd-version` subdirectory
3. Type `./configure && make`.
4. If the above doesn't give an error, type `make install` to install the program. (Depending on

your OS and permission level you might need to use `sudo make install` to install instead.)

To run DDD, you need [the GNU debugger \(GDB\)](#), version 4.16 or later (or depending on the program to be debugged, possibly other command-line debuggers such as [Ladebug](#), [JDB](#), [XDB](#), [the Perl debugger](#), the bash debugger [bashdb](#), the GNU Make debugger [remake](#), or the Python debugger [pydb](#).)

How do I get started with DDD?

The [DDD Manual](#) contains a detailed tutorial.

Here are some free third-party tutorials on the Web:

- There's an [article](#) on DDD in [Dr. Dobb's Journal](#).
- [Linux Magazin](#) has articles (in German) on debugging with [GDB](#) and [DDD](#).
- [LinuxFocus](#) has a DDD tutorial in [English](#), [Spanish](#), [German](#), [French](#), [Korean](#), and [Turkish](#).

Where do I get DDD alpha releases?

The DDD Subversion repository (containing all versions of DDD, including the very latest changes) is available via <http://savannah.gnu.org/projects/ddd>.

I have found a bug! How do I report it?

You can report bugs on the [bug tracker](#). Before you do this, please check the following:

- Please try to see whether your bug has already been reported. You can [browse](#) or [search](#) the bug tracker.
- Please read the section "Bugs and How to Report Them" toward the end of the [DDD Manual](#).
- Be sure to include a copy of your `~/.ddd/log` file which tells your DDD configuration as well as the interaction between DDD and the underlying command-line debugger.
- Remember, the more (relevant) information you put in your bug report, the more likely it is to be fixed rapidly.

The purpose of reporting a bug is to enable the bug to be fixed for the sake of the whole community of users. You may or may not receive a response; the maintainers will send one if that helps them find or verify a fix. Most GNU maintainers are volunteers and all are overworked; they don't have time to help individuals and still fix the bugs and make the improvements that everyone wants. If you want help for yourself in particular, you may have to [hire someone for technical support](#).

If you are willing to help fixing DDD bugs, you can [subscribe to the bug-ddd mailing list or access its archives](#).

I have a question regarding DDD. Where do I get assistance?

We have a general-purpose mailing list devoted to DDD. You can ask any questions to [ddd at gnu.org](mailto:ddd_at_gnu.org). Patches and new releases are also announced here. [Subscription info and mailing list archives](#) are available. Owing to abuse by spammers, it is necessary to subscribe before posting to the list.

If you need technical support on DDD, you can [ask for technical support](#).

Where can I learn more about the debuggers DDD uses?

As mentioned [above](#), DDD runs a number of debuggers under the scenes. One can issue commands directly to those debuggers. Below are links for these debuggers:

- GNU Debugger: [gdb](#)
- Perl Debugger: [perl -d](#)
- Bash Debugger: [bashdb](#)
- Python Debugger: [pydb](#)
- GNU Make Debugger: [remake](#)
- dbx: [dbx](#)
- Ladebug: [ladebug](#)

(To do: expand the above for more references on each debugger, e.g, tutorials, books, video demos.)

Where can I learn more about debugging and debuggers?

Here are some other related resources:

- [LessTif](#) or [Open Motif](#). A window library needed to compile DDD.
- [HP Wildebeest \(WDB\)](#). A port of GDB to PA-RISC/HP-UX, by HP.
- [Insight](#). A very nice GUI for GDB from [Redhat](#), the GDB maintainers.
- [KDbg](#). A KDE-based GDB Interface with inspection of variable values in a tree structure.
- [xxgdb](#). The oldest and simplest X interface for GDB and DBX.
- [tgdb](#). A Tcl/Tk GDB interface (similar to *Turbo Debugger* or *CodeView*).
- [deet](#). A simple and extensible graphical debugger.
- [A list of available Perl debuggers](#). The ultimate Perl reference.
- [A GUI for the Perl Debugger](#). Written in Perl.
- [GNU Nana](#). Improved support for assertions and logging in C and C++.
- [GNU Checker](#). A tool to find memory errors at runtime
- [xwpe](#). A programming environment integrating a program editor with an external debugger.
- [Valgrind](#). No-one developing C or C++ code under Linux/x86 or Linux/PPC should be without it.

Have fun with DDD!

Current Maintainer:

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Return to [GNU's home page](#).

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

Please send comments on these web pages to bug-ddd at gnu.org.

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