

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the gdc compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/          (for prereleases)
http://gnu-pascal.de/alpha/         (for GNU Pascal)
http://bitbucket.org/goshawk/gdc    (for D)
```

The current gcc-4.4 source package is taken from the SVN gcc-4\_4-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-4.4	libgnat-4.4	gnat-4.4-doc
C	gcc-4.4		gcc-4.4-doc
C++	g++-4.4	libstdc++6	libstdc++6-4.4-doc
D	gdc-4.4		
Fortran 95	gfortran-4.4	libgfortran3	gfortran-4.4-doc
Java	gcj-4.4	libgcj10	libgcj-doc
Objective C	gobjc-4.4	libobjc2	
Objective C++	gobjc++-4.4		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
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C++	libstdc++6-4.4-dbg	libstdc++6-4.4-pic
D	libphobos-4.4-dev	
Java	libgcj10-src	libgcj10-dev libgcj10-dbg

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-4.4-base	Base files common to all compilers
gcc-4.4-soft-float	Software floating point (ARM only)
gcc-4.4-source	The sources with patches

Ada:

libgnatvsn-dev, libgnatvsn4.4	GNAT version library
libgnatprj-dev, libgnatprj4.4	GNAT Project Manager library

C:

cpp-4.4, cpp-4.4-doc	GNU C Preprocessor
libmudflap0-dev, libmudflap0	Library for instrumenting pointers
libssp0-dev, libssp0	GCC stack smashing protection library
fixincludes	Fix non-ANSI header files
protoize	Create/remove ANSI prototypes from C code

Java:

gij	The Java bytecode interpreter and VM
libgcj-common	Common files for the Java run-time
libgcj10-awt	The Abstract Windowing Toolkit
libgcj10-jar	Java ARchive for the Java run-time

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
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Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of

'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdecnumber
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- The libgnat-4.4 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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D:

gdc-4.4

GNU D Compiler

libphobos-4.4-dev

D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/\*

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The DMD Compiler implementation of the D programming language:

- d/dmd/\*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/\*



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The Phobos standard runtime library:

- d/phobos/\*

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