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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)
<svn://gcc.gnu.org/svn/gcc/> (for prereleases)
<ftp://sourceware.org/pub/newlib/> (for newlib)

[git://git.savannah.gnu.org/gm2.git](https://git.savannah.gnu.org/gm2.git) (for Modula-2)

The current gcc-14 source package is taken from the `gcc-14-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-14 libgnat-14 gnat-14-doc
C gcc-14 gcc-14-doc
C++ g++-14 libstdc++6 libstdc++6-14-doc
D gdc-14
Fortran 95 gfortran-14 libgfortran5 gfortran-14-doc
Go gccgo-14 libgo0
Objective C gobjc-14 libobjc4
Objective C++ gobjc++-14
Modula-2 gm2-14 libgm2
Rust gccrs-14
```

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

```
-----
C++ libstdc++6-14-dbg libstdc++6-14-pic
D libphobos-14-dev
```

Additional packages include:

All languages:
 libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
 gcc-14-base Base files common to all compilers
 gcc-14-soft-float Software floating point (ARM only)
 gcc-14-source The sources with patches

Ada:
 libgnat-util14-dev, libgnat-util14 GNAT version library

C:
 cpp-14, cpp-14-doc GNU C Preprocessor
 libssp0-dev, libssp0 GCC stack smashing protection library
 libquadmath0 Math routines for the `__float128` type
 fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
 libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
 libitm1-dev, libitm1 GNU Transactional Memory Library

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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- libatomic
- libdecnumber
- libgm2
- libgomp
- libgrust
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-14 Ada support library and libgnat-util14 library.
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Version 3.1, 31 March 2009

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D:
gdc-14 GNU D Compiler
libphobos-14-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 Phobos standard runtime library:
- libphobos/*

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Version 1.1, February 14h, 2010
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