

# TN300 1.10.xx

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### TN300

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, 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/](http://svn.gnu.org/svn/gcc/) (for prereleases)  
<http://bitbucket.org/goshawk/gdc> (for D)  
<https://github.com/MentorEmbedded/nvptx-newlib/> (for newlib-nvptx)

The current gcc-8 source package is taken from the SVN gcc-8-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-8	libgnat-8	gnat-8-doc
BRIG	gccbrig-8	libhsail-rt0	
C	gcc-8		gcc-8-doc
C++	g++-8	libstdc++6	libstdc++6-8-doc
D	gdc-8		
Fortran 95	gfortran-8	libgfortran3	gfortran-8-doc
Go	gccgo-8	libgo0	
Objective C	gobjc-8	libobjc2	
Objective C++	gobjc++-8		

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++6-8-dbg	libstdc++6-8-pic
D	libphobos-8-dev			

Additional packages include:

All languages:  
 libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)  
 gcc-8-base Base files common to all compilers  
 gcc-8-soft-float Software floating point (ARM only)  
 gcc-8-source The sources with patches

Ada:  
 libgnatvsn-dev, libgnatvsn8 GNAT version library

C:  
 cpp-8, cpp-8-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
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
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Version 3.1, 31 March 2009

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

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log10q.c:

Cephes Math Library Release 2.2: January, 1991

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gcc/go/gofrontend, libgo :

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D:

gdc-8                      GNU D Compiler  
libphobos-8-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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