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Atlan 2.10
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Table of Contents

Open Source Software Licenses 2

Atlan 2

agent++ 4.3.1 Apache-2.0 . . . 2
Boost 1.71.0 BSL-1.0 . . . 2
CppFormat 1.1.0 BSD-2-Clause . . . 2
Das U-Boot 2020.10 GPL-2.0 . . . 3
GNU Compiler Collection 8.3.0 GPL-3.0+ . . . 9
MiniZip 1.01e Zlib . . . 48
OpenSSL 1.1.1n OpenSSL . . . 48
snmp++ 3.4.2 . . . 50
Twofish 1.0 . . . 51
VxWorks SR0541 . . . 51
Zint backend 2.4.4 BSD-3-Clause . . . 51

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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/ (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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- libdecnumber
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- libitm
- libssp
- libstdc++-v3
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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.

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- d/*

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The Phobos standard runtime library :
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