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1)

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://bitbucket.org/goshawk/gdc(for D)

The current gcc-4.5 source package is taken from the SVN gcc-4_5-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-4.5	libgnat-4.5	gnat-4.5-doc
С	gcc-4.5		gcc-4.5-doc
C++	g++-4.5	libstdc++6	libstdc++6-4.5-doc
D	gdc-4.5		
Fortran 95	gfortran-4.5	libgfortran3	gfortran-4.5-doc
Java	gcj-4.5	libgcj10	libgcj-doc
Objective C	gobjc-4.5	libobjc2	
Objective C++	gobjc++-4.5		

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		ent Debugging	Position-Independent	
 C++		libstdc++6-	4.5-dbg libstdc++6-4.5-pic	
D	libphobos-4.5-dev			
Java	libgcj10-src libgcj1	0-dev libgcj10-dbg		
Additional packages include:				
All langua	ges:			
libgcc1, libgcc2, libgcc4 GC		GCC intrinsics (platfor	m-dependent)	
gcc-4.5-base		Base files commo	n to all compilers	
gcc-4.5-soft-float So		Software floating poir	nt (ARM only)	

The sources with patches

Ada:	
libgnatvsn-dev, libgnatvsn4.5	GNAT version library
libgnatprj-dev, libgnatprj4.5	GNAT Project Manager library

C:

gcc-4.5-source

cpp-4.5, cpp-4.5-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
libgcj-common
libgcj10-awt
libgcj10-jar

The Java bytecode interpreter and VM Common files for the Java run-time The Abstract Windowing Toolkit Java ARchive for the Java run-time

C, C++ and Fortran 95:

libgomp1-dev, libgomp1GCC OpenMP (GOMP) support 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
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- The libgnat-4.5 Ada support library and libgnatvsn library.
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Version 3.1, 31 March 2009

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D: gdc-4.5 libphobos-4.5-dev

GNU D Compiler 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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zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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