



OpenMP Compilers

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A number of compilers from various vendors or open source communities implement the OpenMP API. If we are missing any please [Contact Us](#) with your suggestions.

Vendor/Source	Compiler	Information
Open Source	GCC	<p>Free and open source – Linux, Solaris, AIX, MacOSX, Windows, FreeBSD, NetBSD, OpenBSD, DragonFly BSD, HPUX, RTEMS</p> <p>From GCC 4.2.0, OpenMP 2.5 is fully supported.</p> <p>From GCC 4.4.0, OpenMP 3.0 is fully supported.</p> <p>From GCC 4.7.0, OpenMP 3.1 is fully supported.</p> <p>In GCC 4.9.0, OpenMP 4.0 is supported for C and C++, but not Fortran.</p> <p>From GCC 4.9.1, OpenMP 4.0 is fully supported.</p> <p>From GCC 6.1, OpenMP 4.5 is fully supported for C and C++.</p> <p>Compile with -fopenmp to enable OpenMP.</p> <p>Online documentation: https://gcc.gnu.org/onlinedocs/libgomp/ OpenMP support history: https://gcc.gnu.org/projects/gomp/</p>

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IBM	XL C/C++ / Fortran	<p>XL C/C++ for Linux V13.1.5 on little endian distributions and XL Fortran for Linux V15.1.15 on little endian distributions (available in Dec 2016) support OpenMP 3.1 and features in OpenMP 4.5 (include device constructs for offloading to NVIDIA GPU).</p> <p>XL C/C++ XL Fortran</p> <p>XL compilers on POWER community: C/C++ – Fortran</p>
Oracle	C/C++ / Fortran	<p>Oracle Developer Studio 12.5 compilers (C, C++, and Fortran) support OpenMP 4.0 features. Compile with -xopenmp.</p> <p>Platforms: x86/Linux, x86/Solaris, SPARC/Solaris</p> <p>Tools: Dbx debugger, Thread Analyzer for detecting data races and deadlocks, Code Analyzer for static code analysis, Performance Analyzer for performance profiling</p> <p>Online Documentation Free Download</p>
Intel	C/C++ / Fortran	<p>Windows, Linux, and MacOSX.</p> <p>OpenMP 3.1 C/C++/Fortran fully supported in version 12.0, 13.0, 14.0 compilers</p> <p>OpenMP 4.0 C/C++/Fortran supported in version 15.0 and 16.0 compilers</p> <p>OpenMP 4.5 C/C++/Fortran supported in version 17.0 compilers</p> <p>Compile with -Qopenmp on Windows, or just -openmp or -qopenmp on Linux or Mac OSX</p> <p>More detailed information</p>

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		More Information on PGI Compilers
Absoft Pro Fortran	Fortran	Versions 11.1 and later of the Absoft Fortran 95 compiler for Linux, Windows and Mac OS X include integrated OpenMP 3.0 support. Version 17.0 supports OpenMP 3.1. Compile with -openmp. More information
Lahey/Fujitsu Fortran 95	C/C++ / Fortran	The compilers in the software package of 'Technical Computing Suite for the PRIMEHPC FX100' support OpenMP 3.1. » More information
PathScale	C/C++ / Fortran	Linux 32/64 bit.EKOPath 6: http://www.pathscale.com/EKOPath – CPU only. Fully supports OpenMP 2.5. Supports almost all OpenMP 3.x and 4.0, no OpenMP4 offload directives support. ENZO2016: http://www.pathscale.com/ENZO – CPU+GPU – Fully supports OpenMP 2.5. Supports almost all OpenMP 3.x and 4.0, includes OpenMP4 offloading
Cray	Cray C/C++ and Fortran	Cray Compiling Environment (CCE) 8.5 (June 2016) supports OpenMP 4.0, with OpenMP 4.5 support for device constructs. OpenMP is on by default. More Information
NAG	nagfor	NAG Fortran Compiler 6.1 supports OpenMP 3.1 on x86 and x64, for Linux, Mac and Windows. Compile with -openmp. More Information
OpenUH Research Compiler	C/C++/Fortran	The OpenUH 3.x compiler has a full open-source implementation of OpenMP 2.5 and near-complete support for OpenMP 3.0 (including explicit task constructs) on Linux 32-bit or 64-bit platforms. For more information or to download: http://web.cs.uh.edu/~openuh/index.shtml



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		<p>become available in a future version.</p> <p>Compile and link your code with <code>-fopenmp</code></p>
LLNL Rose Research Compiler	C/C++/Fortran	<p>ROSE is a source-to-source research compiler supporting OpenMP 3.0 and some OpenMP 4.0 accelerator features targeting NVIDIA GPUs.</p> <p>More information</p>
Appentra Solutions parallware compiler	Parallware Suite C/C++	<p>Parallware Suite provides the tool Parallware Trainer, an interactive, real-time desktop tool that facilitates teaching, learning, and the usage of parallel programming using directives of OpenMP 4.0.</p> <p>More Information</p>
Texas Instruments	C	<p>OpenMP 3.0 is supported on TI's Keystone I family of Multicore C66x Digital Signal Processor (DSP) SoCs using the Multicore Software Development Kit MCSDK-C66 2.1.2.6. OpenMP 3.0 with the device constructs from OpenMP 4.0 is supported on TI's Keystone II family of C66x+Cortex-A15 SoCs using MCSDK-K2 3.1.4.7</p> <p>MCSDK downloads: http://www.ti.com/tool/bioslinuxmcsdk</p> <p>TI Products: http://www.ti.com/lstds/ti/processors/dsp/overview.page</p>
Barcelona Supercomputing Center	Mercurium C/C++/Fortran	<p>Mercurium is a source-to-source research compiler that is available to download at https://github.com/bsc-pm/mcxx</p> <p>OpenMP 3.1 is almost fully supported for C, C++, Fortran. Apart from that, almost all tasking features introduced in newer versions of OpenMP are also supported. More information</p>

The OpenMP API
supports multi-processor...



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The OpenMP API
defines a portable,
scalable model with
a simple and
flexible interface for
developing parallel
applications on
platforms from the
desktop to the
supercomputer.

e/2017...


Enabling HPC sinc

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