

Compilers

Compiler Resources

GNU gcc

See the [gcc](#) page.

HP aCC

See the [HP aCC](#) page.

HP (formerly Compaq, formerly DEC) C++

Online References

Predefined Macros

			HP C++ Predefined Macros			
MACRO	Arch	HP C++ OPTION	VERSION	DESCRIPTION		
<code>osf</code>						
<code>digital</code>						
<code>__SYSTYPE_BSD</code>						
<code>unix, __unix</code>						
<code>__INITIAL_POINTER_SIZE=0</code>						
<code>arch64</code>						
<code>__IEEE_FLOAT</code>						
<code>__Alpha_AXP</code>						
<code>__LONGLONG</code>						
<code>alpha, +alpha, +ALPHA</code>						
<code>__DECCXX_VER=70190006</code>						
<code>__MODEL_ARM</code>						
<code>__STD_ANSI</code>						
<code>__IMPLICIT_INCLUDE_ENABLED</code>						
<code>__STDNEW</code>						
<code>__X_FLOAT</code>						
<code>__PRAGMA_ENVIRONMENT</code>						
<code>__DECCXX</code>						
<code>EDG_VERSION=304</code>						
<code>EDG</code>						
<code>__IMPLICIT_USING_STD</code>						
<code>__RTTI</code>						
<code>__EXCEPTIONS</code>						
<code>__GLOBAL_ARRAY_NEW</code>						
<code>__BOOL_IS_A_RESERVED_WORD</code>						
<code>__BOOL_EXISTS</code>						
<code>__WCHAR_T</code>						
<code>__WCHAR_T</code>						
<code>__cplusplus=199711L</code>						
<code>TIME</code>						
<code>DATE</code>						

Discussion Forums

Bug Reports

IBM XLC/C++

- [IBM C And C++ Compilers](#)
- [IBM XLC/C++ home page.](#)
- [IBM VisualAge C++ home page.](#)

Online References

- [XLC/C++ 10.1](#)
- [Reference](#) for XLC++ 9 and prior
- [XLC/C++ 9.0](#) for AIX
- [XLC/C++ 9.0](#) for Linux
- [XLC/C++ 8.0](#) for AIX
- [XLC/C++ 8.0](#) for Linux
- [XLC/C++ 7.0](#) for AIX
- [XLC/C++ 7.0](#) for Linux
- [VisualAge C++ Library](#) for V6.0 and V5.0.

Predefined Macros

- Macros defined by the compiler are documented in the Predefined Macros chapter in the online reference.

Discussion Forums

Bug Reports

Intel C++

Online References

- [Intel Compilers](#) page.
- [http://software.intel.com/sites/products/documentation/hpc/compilerpro/en-us/cpp/lin/compiler_c/index.htm|Intel® C++ Compiler 11.1 User and Reference Guides]].

Predefined Macros

			Intel C++ Predefined Macros		
MACRO	Arch	OS	Intel C++ OPTION	VERSIO N	DESCRIPTION
<code>__INTEL_COMPILER</code>	all	all		all	Defined to 1.
<code>__ECC</code>	IA64	all		all	Defined to the compiler version.
<code>EDG</code>	all	all		all	Always defined to 1.
<code>EDG_VERSION</code>	all	all		all	Defined to the version of the EDG eccp front end used by the compiler.
<code>GNUCC</code>	all	Linu x		all	Defined to the major version of gcc the compiler is configure to use.
<code>GNUG</code>	all	Linu x		all	Defined to the same value as <code>GNUCC</code> in C++ mode.
<code>+i386, +i386___, i386</code>	i86	all		all	Defined to 1 on i86 and compatible processors.
<code>+ia64, +ia64___</code>	IA64	all		all	Defined to 1 on IA64 processors.
<code>__ICC</code>	i86, Intel 64	all		all	Defined to the compiler version.
<code>__INTEL_COMPILER</code>	all	all		all	Defined to the compiler version.
<code>__INTEL_COMPILER_BUILD_DATE</code>	all	all		8.0+	Defined to the compiler build date in the format YYYYMMDD.
<code>itanium</code>	IA64	all		all	Defined to 1 on IA64 processors.
<code>+linux, +linux___, linux</code>	all	Linu x		all	Defined to 1 on Linux.
<code>+lp64, +LP64___, _LP64</code>	Intel 64, IA64	all		all	Defined to 1 in LP64 mode.
<code>PTRDIFF_TYPE</code>	all	all		all	Defined to the underlying type of <code>ptrdiff_t</code> .
<code>SIZE_TYPE</code>	all	all		all	Defined to the underlying type of <code>size_t</code> .
<code>+unix, +unix___, unix</code>	all	Linu x		all	Defined to 1 on Linux.
<code>VERSION</code>	all	all		all	Defined to the version string.
<code>WCHAR_TYPE</code>	all	all		all	Defined to the underlying type of <code>wchar_t</code> .
<code>WINT_TYPE</code>	all	all		all	Defined to the underlying type of <code>wint_t</code> .
<code>+x86_64, +x86_64___</code>	Intel 64	all		all	Defined to 1 on Intel 64 and compatible processors (including AMD64).

Discussion Forums

Bug Reports

SGI MIPSpro

- <http://www.sgi.com/products/software/irix/tools/c++.html>

Online References

- MIPS Pro 7.4 [Programmers Guide](#)
- MIPS Pro 7.4 [Pragmas](#)
- MIPS Pro 7.3 [Programmers Guide](#)

Predefined Macros

Discussion Forums

Bug Reports

Sun C++

Online References

- [Sun Studio](#) home page at the [Sun Developer Network](#)
- [Sun Studio C++ Features by Release](#) - List of major compiler features and their availability in each Sun C++ release
- [Sun Studio 12 Update 1 \(CC 5.10\)](#) Documentation Online
- [Sun Studio 12 \(CC 5.9\)](#) Documentation Online
- [Sun Studio 11 \(CC 5.8\)](#) Documentation Online
- [Sun Studio 10 \(CC 5.7\)](#) Documentation Online
- [Sun Studio 9 \(CC 5.6\)](#) Documentation Online
- [Sun Studio 8 \(CC 5.5\)](#) Documentation Online

Predefined Macros

Discussion Forums

- [Sun Studio C++ Developer Forums](#)

Bug Reports

- See this [Announcement: How to report Bug and RFE \(Request for Enhancement\) for Sun Studio product](#).

Performance Tuning

- [Sun Studio: Performance Tuning and Optimization](#)
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Microsoft Visual Studio

- [Microsoft Visual Studio](#) home page.

Online References

- [MSDN Library](#)
- Microsoft Visual Studio [2008](#) (AKA MSVC 9.0)
- Microsoft Visual Studio [2005](#) (AKA MSVC 8.0)
- Microsoft Visual Studio [.NET](#) (AKA MSVC 7.1)
- Microsoft Visual Studio [6.0](#) (AKA MSVC 6.0)

Predefined Macros

- [MSVC 9.0](#)
- [MSVC 8.0](#)
- [MSVC 7.1](#)
- [MSVC 6.0](#)

Discussion Forums

- [MSDN VisualC++ Developer Forums](#)

Bug Reports

- [Microsoft Connect](#)

[CategoryPlatform](#)