

IBM High C/C++ Compiler

Highlights

- Big- and little-endian addressing
- Eight levels of global optimization
- Optional ANSI-Standard conformance
- Extensive and scalable error/warning messages
- Wide variety of compiler features available through toggles and pragmas
- C or C++ compiler invoked based on user-definable source-file extension
- Lint-like checking
- Source-annotated assembly listings
- Inline functions across compilation units
- No restriction on complexity of inlined functions
- Four user-selectable levels of warning messages with more than 500 diagnostic messages
- Supports ELF and DWARF
- Floating-point code generation using highly optimized floating-point libraries from U.S. Software

Product Description

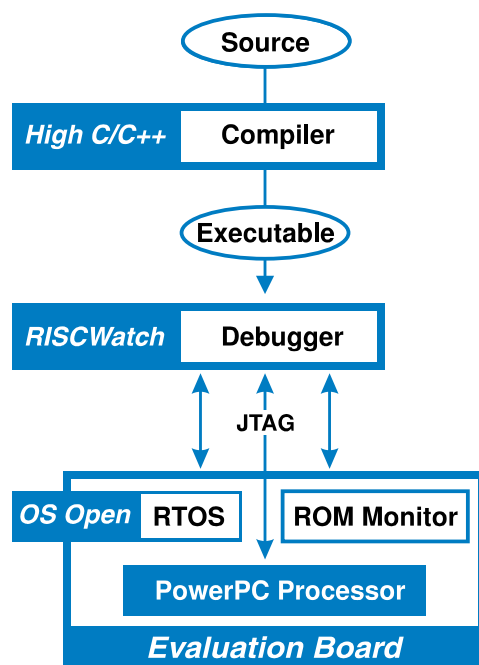
The IBM High C/C++** product provides the essential tools and enabling technology for creating and distributing embedded PowerPC* applications. This 32-bit tool set provides eight levels of optimization to allow you to optimize for your particular embedded PowerPC application.

The IBM High C/C++ tool set provides host support for the following platforms targeted to the PowerPC embedded controllers:

- DOS and Extended DOS on Intel X86 and Pentium**
- AIX* on RS/6000*
- SunOS** 4.1 or Solaris** on SPARCstation or equivalent

Attention to the evolving ANSI C++ Standard gives you cross-platform compatibility and predictability. The IBM High C/C++ tool set produces machine language that is compact, fast, and efficient, allowing large, complex applications to be developed and deployed.

The compiler in the tool chain is a true compiler, not a C to C++ translator. The "Incremental strengths" feature permits specification of the level of C++ compilation, allowing migration from C to C++ in stages.





Flexibility Options

Choose from a large selection of toggles and pragmas to customize the compiler to meet your specific needs. You can, among many other options:

- Adjust the code size-execution speed trade-off in generated code
- Adjust external naming conventions to agree with linkers and operating systems
- Place code or data in specific locations for embedded applications
- Develop on any of four different platforms

Right Levels of Global Optimization

You can optimize programs for execution speed and/or code size, or to achieve faster compile times, with a single command-line switch. High C/C++ supports the classic optimizations including retro-allocation via the graph coloring technique.

Incremental Strengths

The "incremental strengths" feature permits specification of the level of C++ compilation, allowing you to migrate from C to C++ in stages.

System Requirements

- RS/6000 running AIX
- SPARCstation or equivalent running SunOS 4.1 or Solaris
- 386-486-Pentium running DOS or Extended DOS

Processors Supported

- IBM PowerPC processors

Availability

- Available now.

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