



PRODUCT BRIEF
Intel® C++ Compiler
for Android®
App Development

 @IntelSoftware



Intel® C++ Compiler for Android*

Great App Performance

If your Android* app development needs are being met with Dalvik*, stick with it. But if you are using the Android* NDK and coding in C or C++, the Intel® C++ Compiler for Android* is for you. Your Android app built with Intel® C++ will benefit from years of Intel experience in delivering performance-oriented compilers for the Intel® Architecture.

Why use Intel C++?

Developers sometimes use C or C++ because they have existing code and don't want to re-write it in another language, or they have special performance requirements. Examples of apps that might benefit from compiled-code performance are those where users expect a more fluid user experience, where developers want their apps to execute faster to save battery life, or simply where apps would benefit from raw speed.

Intel C++ is focused on delivering application performance. It includes vectorization features that simplify development of performance-oriented software. Among these are Intel® Cilk™ Plus and Guided Auto-Parallelization. Intel C++ is also compatible with GNU* C++, the compiler in the Android NDK. This means you can take your source code and build it with the Intel C++ , making it easy to support Intel and other architectures. You can also use familiar Android NDK command-line tools, such as debuggers, in your development. The familiar tools you've been using still apply and you stay productive. Intel C++ and Android Applications Forums provide support, keeping

you informed about community interests and tips for getting the most for your apps. The Forums are open to everyone and are monitored by Intel experts around the world who provide support and interaction.

Performance, compatibility, and support make Intel C++ a powerful and productive tool. Download an eval today and give it a try. It's available for Android app development on Windows*, OS X*, or Linux* systems.

KEY FEATURES

- Leadership app performance
- Compatible with gcc and Android NDK
- Eclipse* IDE support
- Community support
- Available for development on Windows*, OS X*, or Linux*
- Supports Android (Jelly Bean) devices based on Intel processors

Take Comfort. Intel C++ is Compatible with Your Code and the Way You Work

Intel C++ is compatible with the GNU C++ compiler and other tools in the Android NDK and is available for use on your Windows, OS X, and Linux host-development system. This means your investment in C and C++ source code, work process, and productivity is preserved. Compatibility also makes it easy to build apps for Android devices based on Intel® architecture and other architectures, such as ARM*. And you can engage with the growing community of developers who are sharing their experiences on the Intel C++ and Android Applications Forums.

Take Advantage. Intel C++ Delivers Easy-To-Use Performance Features

Intel C++ is focused on great app performance. In some cases, recompiling can potentially add performance. In others, using the Intel C++ Interprocedural Optimization feature can add more performance without changes to source code. Intel C++ also features Intel® Cilk Plus, which helps streamline development of vectorized code with #pragma SIMD and array notation capabilities. And there are unique, easy-to-use keywords to help simplify writing parallel code. Intel C++ brings to Android software development proven features such as the High-Performance Parallel Optimizer (HPO), which applies vectorization, parallelization, and loop transformations in a single pass. Performance is #1 at Intel.

Take Part. Intel Offers Software Development Tools for Mobility

Developers want options when it comes to selecting development tools. In addition to the tools in the Android SDK and NDK, Intel offers Beacon Mountain (code name), which delivers a collection of Intel and third-party tools for designing, coding, and debugging apps that run on Android devices using ARM or Intel Atom processors. There is also the Intel® XDK for those interested in HTML5 development. It delivers development, emulation, and test-on-device capabilities to speed development of cross-platform HTML5 apps.

Take a Test Drive. See How Intel C++ Can Help Deliver Application Performance

Eval copies of Intel C++ Compiler for Android are available from software.intel.com/c-compiler-android. To develop with this release you'll need a system Intel® Core™ processor, Intel® Xeon® processor, or compatible processors with Windows 7 or 8, Apple OS X 10.4.8 (or later), Ubuntu* 8.04 (or later), Linux systems using glibc 2.7 (or later), and the Android NDK r9. Target Android devices must use an Intel Atom or Intel Core processor running Android Jelly Bean*. See the release notes at the evaluation download site for more information.

Join the community:

Intel C++ Forum: software.intel.com/forums/intel-c-compiler

Intel Android Applications Forum: software.intel.com/forums/android-applications-on-intel-architecture

For more complete information about compiler optimizations, see our Optimization Notice at: software.intel.com/en-us/articles/optimization-notice#opt-en.

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