

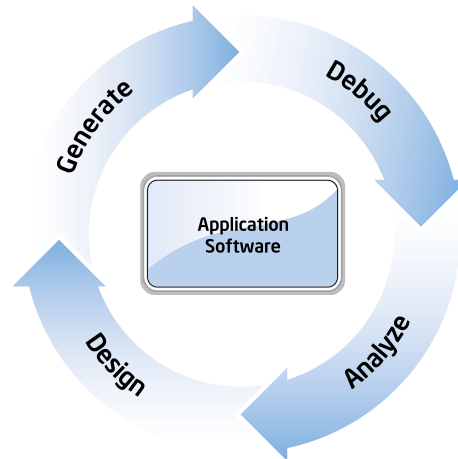
The Development Cycle: How the Application Tools Solution Can Help

Intel® C++ Compiler

- Highly optimizing
- Full support for Intel® Atom™ processor
- GCC compatible

Intel® Integrated Performance Primitives Library

- Highly optimized multimedia functions
- Intel® Atom™ processor optimized



Intel® Application Debugger

- Intel® Atom™ processor support
- Application debugging
- OS aware
- Execution trace support

Intel® VTune™ Analyzer

- Tune code actually running on device
- Performance bottleneck identification
- Tuning Assistant

Features

Completeness

Use a set of software tools based on the latest tools technology for the entire software product development cycle (Design, Generate, Debug, and Analyze) without the need to research the components of other tools.

Performance

New highly optimized in-order scheduler and improvements in the compiler provide a significant performance advantage over GCC. Highly optimized Intel® Integrated Performance Primitives (Intel® IPP) provide the same simple API as for IA-32 architecture, while highly optimized for Intel® Atom™ processors. Intel® VTune™ Performance Analyzer helps to identify performance bottlenecks.

Multimedia and Performance Libraries

With Intel® Integrated Performance Primitives application developers can concentrate on feature implementation rather than optimization of application code. Intel® IPP provides performance-optimized building block functions for key software applications such as: multimedia playback/recording, editing, image processing, audio/speech/signal processing, and network data communications. Free code samples downloadable from the Intel website enhance the value of the Intel® IPP functions by illustrating the implementation of multithreaded application blocks such as video, audio, and speech codecs.

Efficiency and Productivity

Application Debugger

The Intel® Application Debugger for Intel® Atom™ processor support all aspects of debugging, from low-level assembler debugging to high-level language C++ application debugging, with full execution trace support, which helps to identify errors that are normally hard to detect.

The Application Debugger supports native development and testing of Moblin* technology-based applications within a KVM environment on the development host before they run on a real Intel Atom processor-powered device. Native testing reduces time and simplifies the development process. The full GUI-driven application debugger supports execution trace support to look back to the history of an executed program, providing OS awareness and thread aware debugging.

Moblin SDK and Intel Tools

The Intel® Application Tool Suite is a set of highly optimizing software development tools, with a powerful debugger application for more efficient debug cycles. The tools are compatible with the GNU world and complement the standard open source GNU tools offering, which are part of the Moblin development environment.

Furthermore, the Tool Suite integrates into the Moblin Image Creator 2 (MIC2). Kickstart scripts tightly integrate the Intel® C++ Compiler and Intel® IPP into MIC2's jailroot environment. This allows for save and host environment pollution-free development, while taking advantage of the full performance of your development system at build time. Alternatively, you can also install the Intel® C++ Compiler and the Intel® IPP into a Moblin 2* virtual image running under KVM*. Simply downloading a developer Moblin 2 image and installing Intel® Software Development Tool Suite components directly into it let you start even faster with the development of Moblin technology-based system and application software.

