Pro Android C++ with the NDK

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Android is one of the major players in the mobile phone market. Android is a mobile platform that is built on the top of Linux operating system. The native-code support on Android offers endless opportunities to application developers, not limited the functionality that is provided by Android framework. *Pro Android C++ with the NDK* is an advanced tutorial and professional reference for today's more sophisticated app developers now porting, developing or employing C++ and other native code to integrate into the Android platform to run sophisticated native apps and better performing apps in general. Using a game app case study, this book explores tools for troubleshooting, debugging, analyzing memory issues, unit testing, unit test code coverage, performance measurement, on native applications, as well as integrating the Android NDK toolchain into existing Autoconf, Makefile, CMake, or JAM based build systems. *Pro Android C++ with the NDK* also covers the following:

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- The Android platform, and getting up to speed with the Android NDK, and exploring the APIs that are provided in native space.
- An overview of Java Native Interface (JNI), and auto-generating JNI code through Simplified Wrapper and Interface Generator (SWIG).
- An introduction to Bionic API, native networking. native multithreading, and the C++ Standard Template Library (STL) support.
- Native graphics and sound using JNI Graphics, OpenGL ES, and OpenSL ES.
- Debugging and troubleshooting native applications using Logging, GNU Debugger (GDB), Eclipse Debugger, Valgrind, strace, and other tools.
- Profiling native code using GProf to identify performance bottlenecks, and NEON/SIMD optimization from an advanced perspective, with tips and recommendations.

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