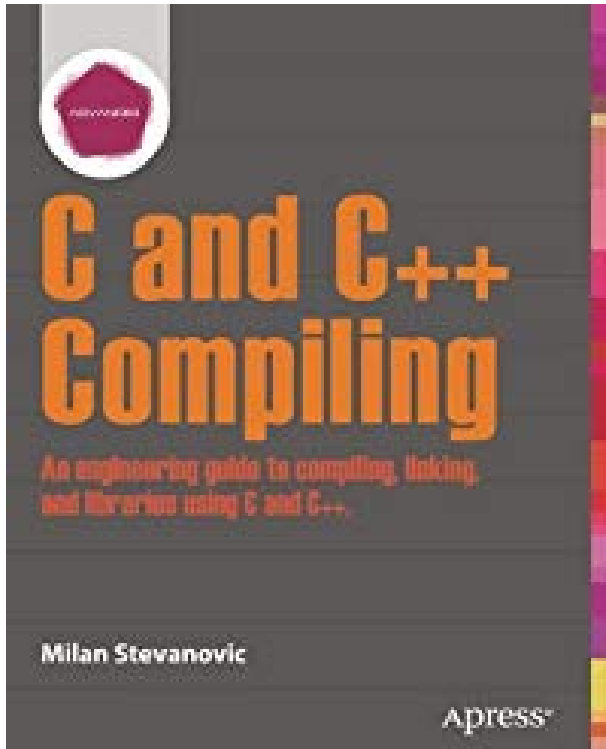


Advanced C and C++ Compiling



ASIN	B00IGKE2HS
Pages:	340
Genre:	Computer Science
Author:	Milan Stevanovic
Language	English
Goodreads Rating:	4.00
Published:	April 22nd 2014 by Apress

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Learning how to write C/C++ code is only the first step. To be a serious programmer, you need to understand the structure and purpose of the binary files produced by the compiler: object files, static libraries, shared libraries, and, of course, executables. *Advanced C and C++ Compiling* explains the build process in detail and shows how to integrate code from other developers in the form of deployed libraries as well as how to resolve issues and potential mismatches between your own and external code trees. With the proliferation of open source, understanding these issues is increasingly the responsibility of the individual programmer.

Advanced C and C++ Compiling brings all of the information needed to move from intermediate to expert programmer together in one place -- an engineering guide on the topic of C/C++ binaries to help you get the most accurate and pertinent information in the quickest possible time. What you will learn

- The details of the build process, including compiling and linking
- The inner workings of static libraries, shared libraries, and executables
- Ways to properly architect code for smooth integration of future changes
- Tips for troubleshooting problems with compiling and linking as well as run-time problems
- How to use operating system-specific (Linux and Windows) tools for analysis of binary files

Who this book is for C/C++ software designers aspiring to senior levels, software architects, build engineers, and Linux system administrators.