



Distributed Application Programming in C++ (with CD-ROM)

By *Randall A. Maddox*

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As software becomes increasingly distributed, high-quality infrastructure becomes ever more important. Precisely written, replete with advanced code examples, and based on Randall Maddox' extensive experience teaching advanced C++, this book gives working C++ developers the insights and sophisticated techniques they need to build superior software infrastructure. Maddox begins by introducing the context required to support a distributed Web application in a Unix environment. He then presents the utility classes that illustrate crucial design and implementation issues and serve as building blocks for a distributed software architecture. Coverage includes concrete data types, templates, containers, namespaces, error handling, and an automated solution for the hazards of dynamic memory allocation. Maddox reviews C++ program startup and memory usage in detail, laying the groundwork for a full of understanding of multiprocessing, multithreading, and interprocess communication. Unlike most advanced C++ books, Distributed Application Programming in C++ goes beyond coding, introducing superior strategies for enterprise software development. Maddox presents key design/implementation tradeoffs, managing source code organization, build-time issues, the run-time environment, and more. For all professional developers who want to master the use of advanced C++ features in real-world distributed applications.

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Editorial Review

From the Back Cover

The expert guide to building superior distributed & Web applications with C++!

- * Building robust "infrastructure" for distributed & Web applications
- * Advanced techniques for experienced C++/UNIX developers
- * Concrete data types, templates, namespaces, error handling, and memory management
- * Organizing source code, managing build-time, runtime, and beyond
- * CD-ROM: Library of enterprise-proven, industrial strength C++ code

Distributed Application Programming in C++ brings together key techniques and insights every C++ developer needs to build robust, reliable, enterprise-class Web and distributed applications. Precisely written, and full of industrial-strength examples, this book focuses on the application infrastructure code that many books ignore — but is utterly crucial to the success of any large-scale application. Drawing on his extensive experience teaching advanced C++, Randall A. Maddox covers all this, and more:

- * Essential infrastructure for distributed Web applications in UNIX environments
- * Key design and implementation tradeoffs in large-scale distributed development
- * Concrete data types, templates, containers, namespaces, and error handling
- * Program startup and execution environments
- * Improving the reliability of C++ dynamic memory allocation
- * Effective data sharing within and between computers
- * Distributed architectures: Web-based application frameworks, RPC, CORBA, and other alternatives

Unlike many advanced C++ books, Distributed Application Programming in C++ goes beyond coding, introducing optimal strategies for enterprise software development. You'll find best-practices approaches for organizing source code, managing build-time and runtime, and more. If you're serious about using C++ for distributed and Web development, this book delivers the solutions you're looking for. **CD-ROM INCLUDED**

CD-ROM contains an extensive library of real-world, enterprise-proven sample code.

About the Author

RANDALL A. MADDUX is a consulting software engineer who has worked on a wide range of projects, including Web applications, distributed systems, client/server systems, embedded systems, and database applications. In addition to working on real projects, he also teaches a 16-week C++ class to working enterprise developers.

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