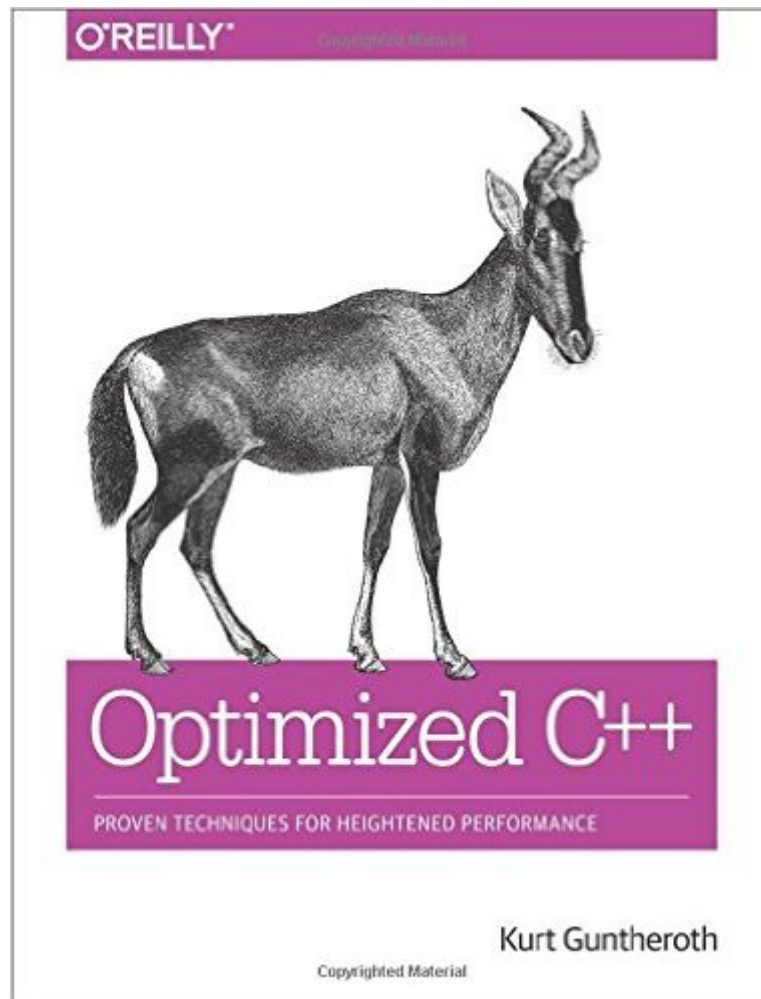


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Optimized C++: Proven Techniques For Heightened Performance



Synopsis

In today's fast and competitive world, a program's performance is just as important to customers as the features it provides. This practical guide teaches developers performance-tuning principles that enable optimization in C++. You'll learn how to make code that already embodies best practices of C++ design run faster and consume fewer resources on any computer—whether it's a watch, phone, workstation, supercomputer, or globe-spanning network of servers. Author Kurt Guntheroth provides several running examples that demonstrate how to apply these principles incrementally to improve existing code so it meets customer requirements for responsiveness and throughput. The advice in this book will prove itself the first time you hear a colleague exclaim, "Wow, that was fast. Who fixed something?"

- Locate performance hot spots using the profiler and software timers
- Learn to perform repeatable experiments to measure performance of code changes
- Optimize use of dynamically allocated variables
- Improve performance of hot loops and functions
- Speed up string handling functions
- Recognize efficient algorithms and optimization patterns
- Learn the strengths and weaknesses of C++ container classes
- View searching and sorting through an optimizer's eye
- Make efficient use of C++ streaming I/O functions
- Use C++ thread-based concurrency features effectively

Book Information

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Customer Reviews

I bought this book in rough cut form and watched it develop. The book is unusual and good IMHO, it has some really great analyses of container algorithm performance comparison and provides good

specific guidance on algorithm and container use. It has been a joy to read and learn from. I liked the separation of discussion of optimizing data structures versus optimizing your use of containers. Chapter 6,7,8 are wonderful educating reads.

Best book I've read on C++ since the Scott Meyers canon. It is well written and PACKED with technical knowledge. Clearly, Guntheroth is a seasoned developer who has done a good job of selecting the pertinent items about optimization and left out the mundane from this book. As an embedded C++ developer, the topics are right on point, well discussed, and thoroughly explained. This book goes deep and is not for the faint of heart. I would recommend this book to those who have already read Meyers and Stroustrup books and I would recommend reading this BEFORE reading Alexandrescu.

This book provides an excellent and straight to the point introduction to optimization in C++. The book is written in a very approachable manner and gives answers to many performance-related questions that I had for a long time. More importantly, the book is C++11 compatible which is a great advantage from an optimization viewpoint. I sincerely hope to read more from this author in the near future.

It's a very good book in a technical aspect, but the way it was written make it harder to understand for people who are used to read academic books.

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