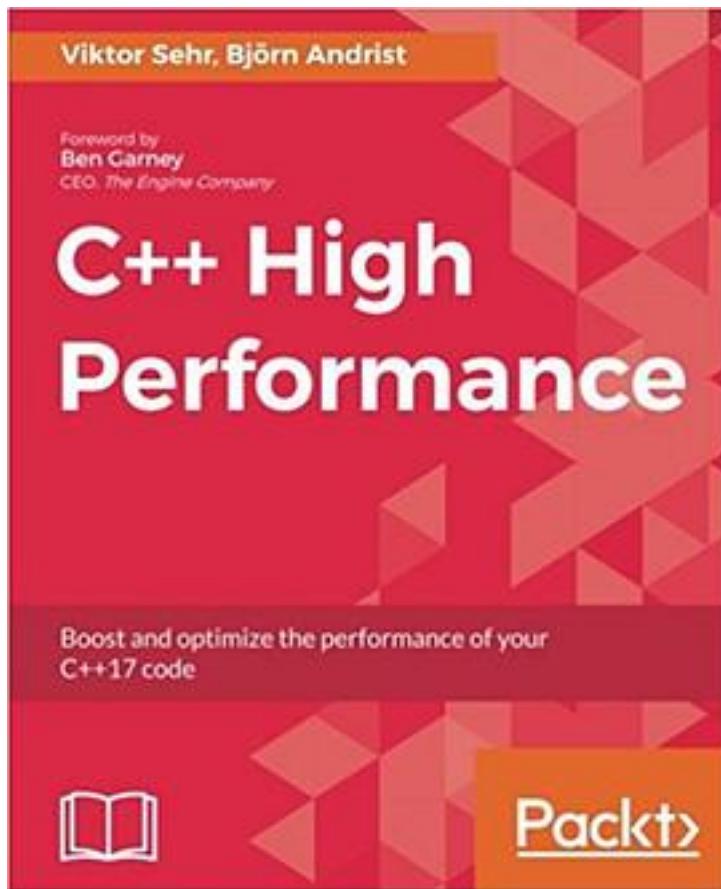


C++ High Performance: Boost and optimize the performance of your C++17 code



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Key Features

Explore concurrent programming in C++
Identify memory management problems
Use SIMD and STL containers for performance improvement

Book Description

C++ is a highly portable language and can be used to write complex applications and performance-critical code. It has evolved over the last few years to become a modern and expressive language. This book will guide you through optimizing the performance of your C++ apps by allowing them to run faster and consume fewer resources on the device they're running on. The book begins by helping you to identify the bottlenecks in C++. It then moves on to measuring performance, and you'll see how this affects the way you write code. Next, you'll see the importance of data structure optimization and how it can be used efficiently. After that, you'll see which algorithm should be used to achieve faster execution, followed by how to use STL containers. Moving on, you'll learn how to improve memory management in C++. You'll get hands on experience making use of multiple cores to enable more efficient and faster execution. The book ends with a brief overview of utilizing the capabilities of your GPU by using Boost Compute and OpenCL.

What you will learn

Find out how to use exciting new tools that will help you improve your code
Identify bottlenecks to optimize your code
Develop applications that utilize GPU computation
Reap the benefits of concurrent programming
Write code that can protect against application errors using error handling
Use STL containers and algorithms efficiently
Extend your toolbox with Boost containers
Achieve efficient memory management by using custom memory allocators

Who This Book Is For

If you're a C++ developer looking to improve the speed of your code or simply wanting to take your skills up to the next level, then this book is perfect for you.

Table of Contents

A Brief Introduction to C++
Modern C++ concepts
Measuring performance
Data structures
A deeper look at iterators
STL Algorithms and Beyond
Memory management
Meta programming and compile time evaluation
Proxy objects and lazy evaluation
Concurrency
Parallel STL

作者介绍:

About the Author

Viktor Sehr is the main developer at Toppluva, working with a highly-optimized graphics engine aimed for mobile hardware. He has 10 years of professional experience using C++, with real-time graphics, audio, and architectural design as his focus areas. Through his career, he has developed medical visualization software at Mentice and Raysearch Laboratories as well as real-time audio applications at Propellerhead Software. Viktor holds an M.S. in media science from Linköping University. Björn Andrist is a freelance software consultant currently focusing on audio applications. For more than 10 years, he has been working professionally with C++ in projects ranging from Unix server applications to real-time audio applications on desktop and mobile. In the

past, he has also taught courses in algorithms and data structures, concurrent programming, and programming methodologies. Björn holds a BS in computer engineering and an MS in computer science from KTH Royal Institute of Technology.

Read more

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标签

C++

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评论

High Perf其实也就是那些东西， 其实不如看manning的多线程 + clean C++

内容新给四星，讲得不深。proxy那一块耳目一新。

modern cpp很香。

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书评

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