C++ High Performance

Viktor Sehr, Bjorn Andrist

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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 an easy language and can be used to write complex applications and performance-critical code. It has evolved and changed over the last few years. This book will guide you through optimizing the performance of your C++ apps by allowing them to consume fewer resources on the device they're running on.

The book begins with a gentle introduction to help you identify the bottlenecks in C++. We move on to measuring performance and you'll see how this affects the way you write code. Next you'll understand the importance of data structure optimization and how it can be used efficiently. After that, we'll explain which algorithm should be used to achieve faster execution, followed by how to use STL containers.

Moving ahead, you'll find out how to boost your code's performance by executing compiled code. You'll get hands-on making use of multiple cores to enable efficient and faster execution, including GPUs. After that, you'll learn how to improve memory management in C++. We end with some techniques you can use to optimize the performance of your apps.

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
- Know your code and hot spots
- Use STL containers to achieve code optimization
- Extend your toolbox with Boost containers
- Write clean and safe code that the compiler can optimize
- Use SIMD to get high performance
- Achieve efficient memory management by identifying problems such as leaks
- Speed up the loading and behavior of the application

About the Author

Viktor Sehr is the Senior Software Engineer at Propellerhead Software. He has around 10 years of hands-on experience with C++. He is an experienced C++ developer with real-time computer graphics software and architectural design as his focus areas.

Here is the link to his Linkedin account :

https://se.linkedin.com/in/viktor-sehr-9593b32

You can also have a look the contribution made by him on developer communities like Stackoverflow and github:

http://stackoverflow.com/users/100724/viktor-sehr

https://github.com/gloinart?tab=repositories

Bjorn Andrist is the Tech Lead for Mobiles at Propellerhead software. He has been working with C++ for more than 10 years in projects ranging from server applications on unix to real-time audio applications on desktop and mobile. He previously also taught courses in Algorithms and Datastructures, and Concurrent programming with C++.

You can find him on LinkedIn at https://se.linkedin.com/in/björn-andrist-25b6b13

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