Google Drive



C++ High Performance

Viktor Sehr, Bjorn Andrist

Download now

Click here if your download doesn"t start automatically

C++ High Performance

Viktor Sehr, Bjorn Andrist

C++ High Performance Viktor Sehr, Bjorn Andrist

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

Download C++ High Performance ...pdf

Read Online C++ High Performance ...pdf

Download and Read Free Online C++ High Performance Viktor Sehr, Bjorn Andrist

---

From reader reviews:

Anna Yates:

Reading a e-book tends to be new life style on this era globalization. With reading through you can get a lot of information that could give you benefit in your life. Along with book everyone in this world can share their idea. Books can also inspire a lot of people. Many author can inspire their reader with their story or their experience. Not only the story that share in the ebooks. But also they write about the knowledge about something that you need case in point. How to get the good score toefl, or how to teach your kids, there are many kinds of book that you can get now. The authors in this world always try to improve their expertise in writing, they also doing some exploration before they write with their book. One of them is this C++ High Performance.

Jason Dolly:

Don't be worry if you are afraid that this book will probably filled the space in your house, you can have it in e-book approach, more simple and reachable. That C++ High Performance can give you a lot of friends because by you investigating this one book you have point that they don't and make you actually more like an interesting person. This particular book can be one of one step for you to get success. This publication offer you information that probably your friend doesn't learn, by knowing more than other make you to be great folks. So , why hesitate? Let us have C++ High Performance.

Henry Reavis:

As we know that book is essential thing to add our information for everything. By a publication we can know everything we really wish for. A book is a group of written, printed, illustrated as well as blank sheet. Every year ended up being exactly added. This reserve C++ High Performance was filled about science. Spend your extra time to add your knowledge about your scientific disciplines competence. Some people has distinct feel when they reading any book. If you know how big selling point of a book, you can truly feel enjoy to read a reserve. In the modern era like currently, many ways to get book that you just wanted.

Christopher Small:

That publication can make you to feel relax. This kind of book C++ High Performance was bright colored and of course has pictures on there. As we know that book C++ High Performance has many kinds or genre. Start from kids until adolescents. For example Naruto or Investigator Conan you can read and think you are the character on there. Therefore not at all of book usually are make you bored, any it makes you feel happy, fun and loosen up. Try to choose the best book for you personally and try to like reading which.

Download and Read Online C++ High Performance Viktor Sehr, Bjorn Andrist #QAP3WUT5OYH

Read C++ High Performance by Viktor Sehr, Bjorn Andrist for online ebook

C++ High Performance by Viktor Sehr, Bjorn Andrist Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read C++ High Performance by Viktor Sehr, Bjorn Andrist books to read online.

Online C++ High Performance by Viktor Sehr, Bjorn Andrist ebook PDF download

C++ High Performance by Viktor Sehr, Bjorn Andrist Doc

C++ High Performance by Viktor Sehr, Bjorn Andrist Mobipocket

C++ High Performance by Viktor Sehr, Bjorn Andrist EPub