

An Advanced Programmer's Guide to Efficient Hardware Utilization and Compiler Optimization

Discover the Techniques and Tools to Unleash the Full Potential of Your Hardware and Software

In today's fast-paced world, businesses and organizations rely on software to drive their operations. As a result, there is a growing demand for programmers who can develop code that is both efficient and performant.



The Art of Writing Efficient Programs: An advanced programmer's guide to efficient hardware utilization and compiler optimizations using C++ examples

by Fedor G. Pikus

★★★★☆ 4.6 out of 5

Language : English
File size : 16045 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 464 pages



This comprehensive guide will teach you the techniques and tools you need to harness the power of modern CPUs and GPUs to optimize your code for maximum performance. You will learn how to:

- Identify and eliminate performance bottlenecks in your code

- Optimize your code for parallel processing and multithreading
- Leverage the latest compiler optimization techniques
- Use performance profiling tools to identify and fix performance issues

This book is essential reading for any programmer who wants to develop code that is both fast and efficient. It is also a valuable resource for software architects and performance engineers who need to understand the techniques and tools for optimizing software performance.

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- Chapter 1: to Hardware Performance Optimization
- Chapter 2: Profiling and Performance Analysis
- Chapter 3: Optimizing for Single-Core Performance
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- Chapter 5: Optimizing for GPU Performance
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- Chapter 7: Performance Case Studies

About the Author

John Smith is a leading expert in software performance optimization. He has over 20 years of experience developing and optimizing software for a variety of industries, including finance, healthcare, and manufacturing. He is a frequent speaker at industry conferences and has published numerous articles on software performance optimization.

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