

A person in a dark suit and blue patterned tie is pointing their right index finger at a glowing blue C++ logo. The logo consists of a large 'C' followed by two '+' signs. The background is a dark blue grid of hexagons, some of which are highlighted with a bright blue glow. The overall image has a high-tech, digital feel.

C++

Optimizing C++ Code for Performance

Optimizing C

Clifford Lane



Optimizing C :

Optimized C++ Kurt Guntheroth,2016-04-27 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 **OPTIMIZATION** NARAYAN

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programmers how to adapt their language's rich legacy of engineering and scientific routines to C without having to go back to the basics James F Kerrigan shows how to use existing knowledge to translate Fortran programming constructs into equivalent C elements He provides an in depth comparison of Fortran and ANSI C programming concepts with extensive code examples to illustrate the features of each language In addition to a parallel analysis of program structures the book examines each Fortran command and defines its counterpart in C describes input output and error control mechanisms in both languages and identifies specific C attributes that do not appear in Fortran Control Engineering ,1994
Instrumentation and automatic control systems C/C++ Users Journal ,2004

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