

# Efficient C Performance Programming Techniques

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far too many programmers and software designers consider efficient c to be an oxymoron they regard c as inherently slow and inappropriate for performance critical applications consequently c has had little success penetrating domains such as networking operating system kernels device drivers and others efficient c explodes that myth written by two authors with first hand experience wringing the last ounce of performance from commercial c applications this book demonstrates the potential of c to produce highly efficient programs the book reveals practical everyday object oriented design principles and c coding techniques that can yield large performance improvements it points out common pitfalls in both design and code that generate hidden operating costs this book focuses on combining c s power and flexibility with high performance and scalability resulting in the best of both worlds specific topics include temporary objects memory management templates inheritance virtual functions inlining reference counting stl and much more with this book you will have a valuable compendium of the best performance techniques at your fingertips

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software programming techniques

unleash the true power of c to build blazing fast low latency applications trusted in high frequency trading real time systems and mission critical software c high performance programming is your definitive guide to mastering performance oriented design and optimization techniques tailored for modern hardware and concurrency models whether you re building ultra low latency financial engines or real time gaming systems this book dives deep into practical patterns memory layout strategies and lock free programming that push c to its limits learn how to leverage cache friendly data structures fine tune cpu and memory performance and write scalable concurrent code that thrives under pressure packed with hands on examples advanced compiler tuning and real world case studies this book empowers developers to write code that s not only correct but fast efficient and production ready highlights include advanced memory management numa awareness and cache optimization simd and instruction level parallelism lock free and wait free algorithms for concurrency real time profiling and benchmarking strategies tuning c code for modern cpu architectures and compilers minimizing latency in critical path execution zero allocation and pool based designs for performance critical systems if speed is non negotiable this book is your tactical arsenal ideal for seasoned developers system engineers and performance obsessed architects looking to squeeze every last cycle out of c

the report describes the organizational and operational design of a digital computer program for the automatic monitoring of human performance during simulated training missions the computer program now in its developmental stage is designed to serve the dual and interdependent purposes of 1 assisting in the analysis and determination of meaningful performance measures and performance criteria and 2 using these criteria to automatically monitor human performance including performance evaluation scoring adaptive task sequencing and the automatic initiation of simulated system malfunctions for training in emergency procedures a description is provided of a criteria format that aids the user of the automatic monitoring program in defining criteria with variable tolerances for conceivably any aerospace task or mission some projections are made about possible uses of the research oriented automatic monitoring program to a vary criteria as the skill level of a particular student increases b hold selected flight variables constant to allow the teaching of isolated skills on a progressive basis c effect overlearning of selected skills by controlling the outputs to the cockpit and d aid in debugging simulation programs a topical flow chart is provided for the entire automatic monitoring program author

this book outlines a set of issues that are critical to all of parallel architecture communication latency communication bandwidth and coordination of cooperative work across modern designs it describes the set of techniques available in hardware and in software to address each issues and explore how the various techniques interact

this introduction to the cics environment can be easily used by the novice or as a reference for the advanced user includes coverage of underlying facilities the constraints and concepts of cics and much more

this book will help you understand what programming for performance means and use effective coding patterns and techniques to optimize your net applications you will begin by understanding what high performance coding means and the different performance concerns you will see how clr works and get an understanding of concepts such as memory management garbage collection and thread life cycles you will proceed to learn about the theoretical and practical concepts of plinq programming you will also see what big data is and how to architect a big data solution to manipulate large datasets finally you will learn how to launch and analyze a profile session and execute tests against a code block or application for performance analysis by the end of this book you will have a complete understanding of efficient

programming using high performance techniques and will be able to write highly optimized applications

please provide description

high performance computing programming and applications presents techniques that address new performance issues in the programming of high performance computing hpc applications omitting tedious details the book discusses hardware architecture concepts and programming techniques that are the most pertinent to application developers for achieving

part of que's programming series this unique text is a compilation of articles by programming authority michael abrash originally published in programmer's journal packed with programming techniques to help users optimize their use of graphics

infoworld is targeted to senior it professionals content is segmented into channels and topic centers infoworld also celebrates people companies and projects

for more than 40 years computerworld has been the leading source of technology news and information for it influencers worldwide computerworld's award winning site computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global it media network

this book was written with one goal in mind to provide java programmers with the expertise needed to build efficient scalable java code the author shares his experience in server side performance tuning through measured performance assessments called optimizations each optimization discusses techniques to improve the performance and scalability of your code every claim is substantiated with hard numbers and an experience based evaluation java performance and scalability volume 1 provides invaluable advice that you will no doubt find useful in your coding presented in 48 concise lessons that target the most common and critical performance pitfalls this book offers a plethora of practical tips and solutions for boosting the performance of your programs these lessons cover performance critical areas such as memory management garbage collection caching and multithreading specific lessons include reserving stringbuffer

capacity avoiding premature object creation creating an efficient vector class designing caching into your api the cost of synchronization parallel subtasks jni efficiency varying the server workload and rmi network plumbing using servletoutputstream caching jdbc connections in addition to providing hard numbers that quantify the optimizations the author concludes the book with an application demonstrating the effectiveness of the performance optimizations the exercise takes a typical program and increases its performance fourfold through a series of steps that tie together the lessons learned throughout the book he offers both the means and the proof to better coding 0201704293b04062001

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