

# Efficient C Performance Programming Techniques

Efficient C++ Programming in Standard C Programming in C ACM Transactions on Programming Languages and Systems Optimization and Tuning Guide for Fortran, C, and C++ Dr. Dobb's Journal of Software Tools for the Professional Programmer Eighth International Workshop on High-Level Parallel Programming Models and Supportive Environments C Programming with Business Applications Embedded Systems Programming Teach Yourself CGI Programming in a Week Client/server Programming with OS/2 2.1 Proceedings of the ... ACM Conference on LISP and Functional Programming PC Magazine Expert C Programming C and the 8051: Hardware, modular programming, and multitasking Encyclopedia C Programmer's Guide to OS/2 U.S. Government Research & Development Reports Microsoft's 80386/80486 Programming Guide C Programming Dov Bulka Lawrence H. Miller Association for Computing Machinery Leon A. Wortman Rafe Colburn Robert Orfali Peter van der Linden Thomas W. Schultz Robert A. Radcliffe Michael J. Young Ross P. Nelson Theophilus Edet

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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 0201379503b04062001

describes the c compilation system for unix system v release 4 0 or later it also provides pointers on transitioning to ansi iso c the guide covers how to comply with standard c debugging from the cli multiprocess debugging using debug with guis c profiling utilities and using the cscope browser

from this book readers will learn how to use the c programming language to write correct efficient portable programs the emphasis is on complete interesting useful examples while covering the complete c language modern topics of data and functional abstraction reusable code and portable efficient data structures are covered

hips 2003 is a forum for researchers in the areas of applications computational models language design compilers system architecture and programming tools to discuss new developments in programming parallel and grid systems the proceedings covers the design and implementation of high level programming models for parallel and grid environments it also looks at current programming models such as mpi and openmp and covers implementation techniques for openmp on smp systems

teach yourself cgi programming in a week third edition follows the same format and uses the same learning tools as other books in the sams teach yourself series this new edition covers implementing cgi with c and active server page technology in addition to perl also covered are windows cgi programming and how to use cgi to interact with java vbscript and javascript the book takes the reader from the basics of cgi learning for example how to implement and customize existing cgi programs that have been written by others to the point where he can use cgi to create his own programs from scratch the book will also provide numerous real life examples of cgi scripts database search tools survey forms interactive games order forms guest books and more the final sections of the book will cover advanced cgi programming debugging techniques solutions for common cgi problems etc cgi is the next step beyond simple html allowing users to add forms and other types of interactivity to pages updated and revised to cover active server pages perl 5 c windows cgi javascript vbscript applescript and new cgi development tools learn how to add interactivity and programs to pages with cgi

this book is for the knowledgeable c programmer this is a second book that gives the c programmers advanced tips and tricks this book will help the c programmer reach new heights as a professional organized to make it easy for the reader to scan to sections that are relevant to their immediate needs

today everything from cell phones to microwaves to cd players all contain microcontrollers or miniature computers which need to be programmed to perform specific tasks designing such systems requires an understanding of both microprocessor electronics and programming languages this book is written for the industrial electronics engineer who needs to use or switch to the intel 8051 family of microcontrollers and implement it using a c programming language

new revised and updated this book provides a wealth of practical information and expert advice on the intel 80386 80386sx and 80486 microprocessors contains scores of informative technical illustrations complete instruction set documentation and sample programs

master c programming for high performance low level and versatile applications are you ready to unlock the power of c programming c programming powerful low level high performance and multi purpose language is the ultimate guide to mastering one of the most essential and versatile languages used in system level programming high performance computing and embedded systems whether you re a beginner or an experienced developer this book equips you with all the tools to build efficient scalable and powerful applications dive deep into c programming constructs and core concepts in 9 comprehensive modules of part 1 we break down the 10 essential c programming constructs that every developer must master learn how to use variables functions conditions collections loops comments enums classes accessors and scope these are the building blocks of c that shape the core of your development work a thorough understanding of these constructs ensures you can write clean efficient and error free c code for a variety of applications leverage c s core support for five programming paradigms part 2 delves into the 5 programming models that c supports imperative programming procedural programming structured programming concurrent programming and parallel programming by understanding these models you ll see how c allows you to approach problem solving in different ways each tailored for specific needs such as system performance concurrency or complex data processing these paradigms are at the heart of c s flexibility and power making it suitable for everything from operating systems to scientific applications apply c programming to real world projects and use cases in part 3 you ll explore 9 practical applications and use cases where c shines from operating systems development and embedded systems to game development high performance computing and cybersecurity c is used in various industries to power critical systems this section provides detailed case studies and insights into how c enables developers to create robust high performance applications across different fields making it indispensable for modern software development master c frameworks libraries and design patterns for success part 4 covers 9 key c frameworks and 7 design patterns that enhance your programming efficiency explore frameworks for embedded systems game development machine learning cryptography networking and more additionally you ll learn design patterns like singleton factory state and strategy which are essential for writing scalable maintainable and reusable code stay ahead of the curve by mastering these frameworks and patterns as they are vital for tackling complex programming challenges in today s world equip yourself with cutting edge c knowledge for today s

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