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[Writing High-Performance C# and .NET Code](#) - .Net Oxford - July 2019

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Code optimization : effective memory usage (eBook, 2003) ...

We say that code optimization is writing or rewriting code so a program uses the least possible memory or disk space, minimizes its CPU time or network bandwidth, or makes the best use of additional cores. In practice, we sometimes default to another definition: Writing less code.

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The Optimal Way to Optimize Code Optimization | Toptal

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Code Optimization Effective Memory Usage

If you are struggling with low memory size and slow processing speed, these are some code optimization techniques you can implement into your project to increase the code efficiency and to save some amount of memory. Increasing Code Efficiency: Modern compilers provide some degree of code optimization. However, most of the optimization techniques of the compiler involve a trade-off between execution speed and code size. An improvement in one area can have a negative impact on another. Your ...

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CODE OPTIMIZATION - Embedded Flakes

The most effective optimization on NB is rsqrt. Using this special intrinsic improves the energy and particularly the active runtime because it targets the slowest and most complex operation in the innermost loop. Since rsqrt helps the active runtime more than the energy, it increases the power substantially.

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Effective Optimization - an overview | ScienceDirect Topics

Your code has no more memory impact by assigning to a stack variable than you would have with fully inlined code. Other optimizations that you might find in C libraries (particularly older ones) where you can have to decide between copying a 2 dimensional array down first or across first is a platform dependent optimization.

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When to optimize for memory vs performance speed for a ...

Code Optimization ?? : Kris Kaspersky ??? : A-List Publishing ??? : Effective Memory Usage ??? : 2003-09-01 ?? : USD 44.95 ?? : Paperback ISBN: 9781931769242

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Code Optimization (??)

Machine-dependent optimization is done after the target code has been generated and when the code is transformed according to the target machine architecture. It involves CPU registers and may have absolute memory references rather than relative references. Machine-dependent optimizers put efforts to take maximum advantage of memory hierarchy.

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Compiler Design - Code Optimization - Tutorialspoint

Constant folding is the simplest code optimization to understand. Let us suppose that you write the statement  $x = 45 * 88$ ; in your C program. A non-optimizing compiler will generate code to ...

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Code Optimization Techniques. Below are the techniques for ...

In computer science, program optimization, code optimization, or software optimization is the process of modifying a software system to make some aspect of it work more efficiently or use fewer resources. In general, a computer program may be optimized so that it executes more rapidly, or to make it capable of operating with less memory storage or other resources, or draw less power.

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Program optimization - Wikipedia

Embedded C - Optimization techniques 1. C Optimization Techniques Team Emertxe 2. Optimization ? Program optimization or software optimization is the process of modifying a software system to make some aspect of it work more efficiently or use fewer resources. Optimization is a process of improving efficiency of a program in time (speed) or Space (size).

"A guide to optimizing programs on the PC and Unix platforms, this book covers the expediency of optimization and the methods to increase the speed of programs via optimization. Discussed are typical mistakes made by programmers that lessen the performance of the system along with easily implemented solutions. Detailed descriptions of the devices and mechanism of interaction of the computer components, effective ways of programming, and a technique for optimizing programs, are provided. Programmers will also learn how to effectively implement programming methods in a high-level language that is usually done in assembler with particular attention given to the RAM subsystem. The working principles of the RAM and the way in which it is coupled with the processor as well as a description of programming methods that allows programmers to overclock the memory to reach maximum performance are included."

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

An introduction to embedding systems for C and C++ programmers encompasses such topics as testing memory devices, writing and erasing Flash memory, verifying nonvolatile memory contents, and much more. Original. (Intermediate).

Helps readers eliminate performance problems, covering topics including bottlenecks, profiling tools, strings, algorithms, distributed systems, and servlets.

This book is a summary of more than a decade of research in the area of backend optimization. It contains the latest fundamental research results in this field. While existing books are often more oriented toward Masters students, this book is aimed more towards professors and researchers as it contains more advanced subjects. It is unique in the sense that it contains information that has not previously been covered by other books in the field, with chapters on phase ordering in optimizing compilation; register saturation in instruction level parallelism; code size reduction for software pipelining; memory hierarchy effects and instruction level parallelism. Other chapters provide the latest research results in well-known topics such as register need, and software pipelining and periodic register allocation.

Understand .NET memory management internal workings, pitfalls, and techniques in order to effectively avoid a wide range of performance and scalability problems in your software. Despite automatic memory management in .NET, there are many advantages to be found in understanding how .NET memory works and how you can best write software that interacts with it efficiently and effectively. Pro .NET Memory Management is your comprehensive guide to writing better software by understanding and working with memory management in .NET. Thoroughly vetted by the .NET Team at Microsoft, this book contains 25 valuable troubleshooting scenarios designed to help diagnose challenging memory problems. Readers will also benefit from a multitude of .NET memory management "rules" to live by that introduce methods for writing memory-aware code and the means for avoiding common, destructive pitfalls. What You'll Learn Understand the theoretical underpinnings of automatic memory management Take a deep dive into every aspect of .NET memory management, including detailed coverage of garbage collection (GC) implementation, that would otherwise take years of experience to acquire Get practical advice on how this knowledge can be applied in real-world software development Use practical knowledge of tools related to .NET memory management to diagnose various memory-related issues Explore various aspects of advanced memory management, including use of Span and Memory types Who This Book Is For .NET developers, solution architects, and performance engineers

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

Performance tuning for real-world applications often involves activities geared towards finding bottlenecks, however this alone cannot solve the dreaded problem of slow code. If you want to improve the speed of your code and optimize the performance of your apps, then this book is for you.

Improved knowledge in the field of technical objects operation and control helps manufacturers to decrease energy consumption and keep construction costs low. Moreover, it helps dealing effectively with environmental problems and switching to renewable forms of energy on the path of sustainable development of the society. The methods and technologies presented in this book will allow to improve the effectiveness of technical objects control and helps achieving safe, economical, high-quality usage of power engineering and information technologies. The book presents recent advances in power engineering, electric drives, transport systems, power electronics, cybersecurity and others. Vital issues of innovative small vehicles with using hydrogen fuel as well as boring rigs and underwater hydraulic transport pipelines are considered. The book offers a fresh look at energy-saving and energy efficiency in industry, new ideas in information technologies, paying much attention to interdisciplinary specification of the results obtained.

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