Writing Efficient Programs

Jon Louis Bentley

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Writing Efficient Programs:

The Art of Writing Efficient Programs Fedor G. Pikus,2021-10-22 Become a better programmer with performance improvement techniques such as concurrency lock free programming atomic operations parallelism and memory management Key Features Learn proven techniques from a heavyweight and recognized expert in C and high performance computing Understand the limitations of modern CPUs and their performance impact Find out how you can avoid writing inefficient code and get the best optimizations from the compiler Learn the tradeoffs and costs of writing high performance programs Book DescriptionThe great free lunch of performance taking care of itself is over Until recently programs got faster by themselves as CPUs were upgraded but that doesn t happen anymore The clock frequency of new processors has almost peaked and while new architectures provide small improvements to existing programs this only helps slightly To write efficient software you now have to know how to program by making good use of the available computing resources and this book will teach you how to do that The Art of Efficient Programming covers all the major aspects of writing efficient programs such as using CPU resources and memory efficiently avoiding unnecessary computations measuring performance and how to put concurrency and multithreading to good use You ll also learn about compiler optimizations and how to use the programming language C more efficiently Finally you ll understand how design decisions impact performance By the end of this book you ll not only have enough knowledge of processors and compilers to write efficient programs but you ll also be able to understand which techniques to use and what to measure while improving performance At its core this book is about learning how to learn What you will learn Discover how to use the hardware computing resources in your programs effectively Understand the relationship between memory order and memory barriers Familiarize yourself with the performance implications of different data structures and organizations Assess the performance impact of concurrent memory accessed and how to minimize it Discover when to use and when not to use lock free programming techniques Explore different ways to improve the effectiveness of compiler optimizations Design APIs for concurrent data structures and high performance data structures to avoid inefficiencies Who this book is for This book is for experienced developers and programmers who work on performance critical projects and want to learn new techniques to improve the performance of their code Programmers in algorithmic trading gaming bioinformatics computational genomics or computational fluid dynamics communities will get the most out of the examples in this book but the techniques are fairly universal Although this book uses the C language the concepts demonstrated in the book can be easily transferred or applied to other compiled languages such as C Java Rust Go and more   Writing Efficient Programs Jon Louis Bentley,1982 Classic on practical methods of optimizing programs This book gives practical advice on improving the efficiency optimizing programs and the limits there of While showing how to trade off speed for space or vice versa the author points out the limits that can be expected to gain His list of techniques is a collection of practical approaches rather than theoretical possibilities At 158

pages not counting index this book is eminently readable accessable and useful Clearly written and well organized this is a book to keep on your shelf for when a program needs improving It is also a book to read before a program as a reminder not to make things complicated with optimization that aren t needed **A Case Study in Writing Efficient Programs** Jon Louis Bentley,1982 The time and space performance of a computer program rarely matter but when they do they can be of crucial importance to the success of the overall system This paper discusses the performance issues that arose in the implementation of a small system twelve programs two thousand lines of code for a small business The paper emphasizes a general methodology for improving system performance the details of the case study show how the general techniques are applied in a particular context Author *Efficient FORTRAN Programming* Anton Kruger,1990-08-14 Few books deal with the topic of programming efficiency and those that do usually gloss over it falsely leaving readers with the impression that it is not very important or not under the control of the programmer This book shows how to program for efficiency and explains that even simple alterations to existing programs can lead to dramatic reductions in execution time It further shows that optimization techniques are often hardware and compiler dependent going beyond simply mainframe execution to discuss the use of FORTRAN programming in the operation of microcomputers Z80 Programming for Logic Design Adam Osborne,1978 Assembly language and digital logic A direct digital loogic simulationA simple program A programmer s perspective The Z80 instruction set **Logics of Programs and Their Applications** Andrzej Salwicki,1983-02-14 Writing Software Documentation Thomas T. Barker,1998 Part of the new Allyn Bacon series in technical communication Writing Software Documentation features a step by step strategy to writing and describing procedures This task oriented book is designed to support both college students taking a course and professionals working in the field Teaching apparatus includes complete programs for students to work on and a full set of project tracking forms as well as a broad range of examples including Windows style pages and screens and award winning examples from STC competitions Data Structures, Algorithms, and Program Style Using C James F. Korsh,Leonard J. Garrett,1988 **Popular Computing** ,1984-03 **Library Journal** ,1984-07 *Data Processing* George B. Potter,1984 **Software Engineering--ESEC/FSE ...** ,1999 **Technical Writing** Thomas L. Warren,1985 **Database Programming Languages** ,1990 **Dictionary of Computer Terms** Douglas Downing,Michael A. Covington,Melody Mauldin Covington,1995 Approximately 1600 defined terms explain computer applications commands functions hardware and the most often used software programs This updated edition reflects the latest trends and changes in the fast moving computer history **New Technical Books** New York Public Library,1992 **Structured Programming** Peter Moulton,1986 Designed for use by computer programming teachers this booklet presents the concepts of structured programming and provides examples of how to implement this methodology which provides a systematic way of organizing programs so that even large and complex programs are easier to understand and modify than unstructured programs After a brief introduction which discusses the history of programming

languages this guide presents a program written in an unstructured manner and then proceeds to develop the structured concepts and show how these improve the organization of the unstructured examples in both BASIC and Pascal It then describes how to use structured programming with languages such as BASIC which were developed before the structured methodology After presenting additional examples including the development of a gradebook program and some extension to the structure concepts the guide concludes with an appendix which discusses strategies for informally proving that programs work JB   **Java Performance and Scalability: Server-side programming techniques** Dov Bulka,2000 PLEASE PROVIDE DESCRIPTION   **Computing Newsletter for Schools of Business** ,1982   **Paradigms and Programming with PASCAL** Derick Wood,1984

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