

Zen Of Code Optimization

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Advanced Backend Code Optimization
A Study of Code Optimization Using a General Purpose Optimizer
Example of
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Shifting the Burden of Code Optimization to the Code Producer
A Survey of Compiler Code Optimization
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Proceedings of the Twelfth ACM Symposium on Operating Systems Principles
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Current Trends in Source-code Optimization
Prelude to Patterns in Computer Science Using Java
Digest of the New York
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Kris Kaspersky
Michael Abrash
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York State Reporter *Heiko Falk Kris Kaspersky Michael Abrash Sid Touati Purdue University. Department of Computer Sciences*
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Association for Computing Machinery. Conference Jürgen Becker J. A. van Hulzen Ed C. Epp Charles Hood Mills

this book focuses on source to source code transformations that remove addressing related overhead present in most multimedia or signal processing application programs this approach is complementary to existing compiler technology what is particularly attractive about the transformation flow pre sented here is that its behavior is nearly independent of the target processor platform and the underlying compiler hence the different source code trans formations developed here lead to impressive performance improvements on most existing processor architecture styles ranging from riscs like arm7 or mips over superscalars like intel pentium powerpc dec alpha sun and hp to vliw dsps like ti c6x and philips trimedia the source code did not have to be modified between processors to obtain these results apart from the performance improvements the estimated energy is also significantly reduced for a given application run these results were not obtained for academic codes but for realistic and rep resentative applications all selected from the multimedia domain that shows the industrial relevance and importance of this research at the same time the scientific novelty and quality of the contributions have lead to several excellent papers that have been published in internationally renowned conferences like e g date this book is hence of interest for academic researchers both because of the overall description of the methodology and related work context and for the detailed descriptions of the compilation techniques and algorithms

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

michael abrash explores the inner workings of all intel based pcs including the hot new pentium this is the only book available that provides practical and innovative right brain approaches to writing fast pc software using c c and assembly language this book is packed with from the trenches programming secrets and features undocumented pentium programming tips provides hundreds of optimized coding examples

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

most portable code systems have poor code quality because optimizations are time and resource consuming dynamically compiled code tends to be of lower quality than statically compiled code because one cannot keep a user waiting for long while performing time consuming optimization steps a new method is needed to enable mobile code systems to produce safe optimized native code

proceedings of the 4th workshop on title held in lisbon portugal in september 1993 sessions are devoted to multimedia experiments system management multimedia protocols future systems groups and cooperative work fault tolerance design of distributed applications object oriented systems network performance software design and testing real time systems algorithms and protocols distributed network processing specification future networks and operating systems issues no index annotation copyright by book news inc portland or

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