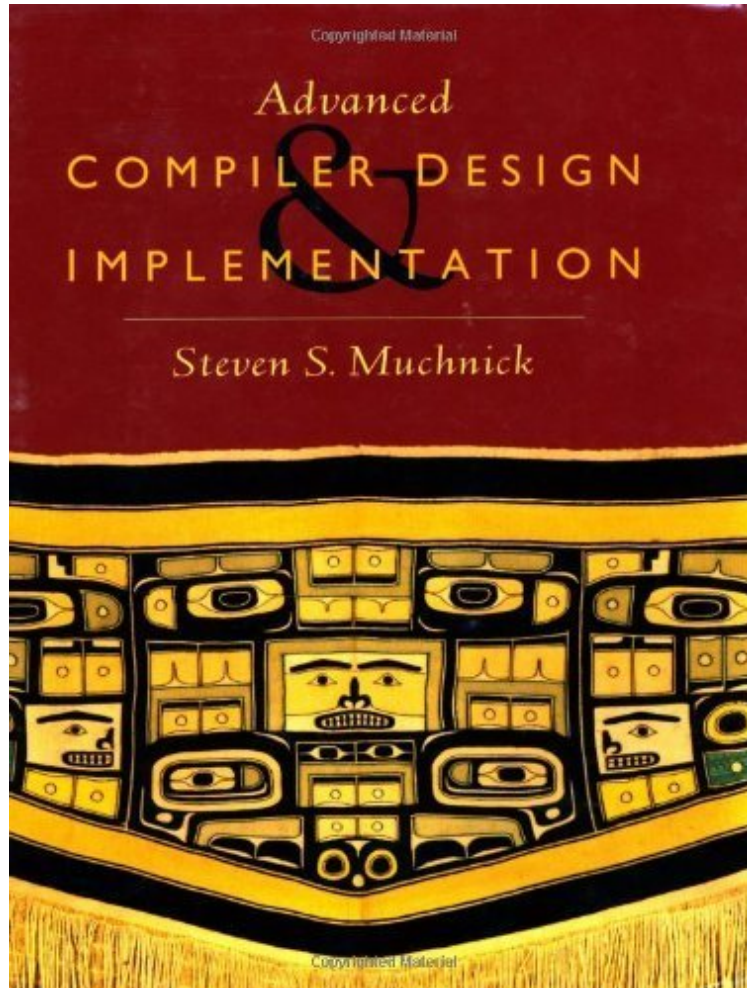


Advanced Compiler Design and Implementation

Von Steven Muchnick

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Von Steven Muchnick : Advanced Compiler Design and Implementation before purchasing it in order to gage whether or not it would be worth my time, and all praised Advanced Compiler Design and Implementation:

KundenrezensionenHilfreichste Kundenrezensionen9 von 9 Kunden fanden die folgende Rezension hilfreich. The definitive compiler book for the 1990sVon Paul HaahrThis book is the comprehensive text for anyone working on an optimizing compiler for uniprocessor systems. It gives good detail on all major approaches and is up-to-date on important techniques like SSA form and partial redundancy information. As someone working directly in the field, it's saved me the effort of hunting up original research papers in many areas. One drawback for this book as a practical tool: the pseudocode used to illustrate examples is often pretty far from being suitable for real implementations.A warning: this is not an introductory book, and people who want to learn about the basics of building a compiler should look elsewhere; perhaps Andrew Appel's ``Modern Compilers'' series. Muchnick's book is for people who want to

write compilers which generate high-performance code.12 von 13 Kunden fanden die folgende Rezension hilfreich. This is no dragon book Von Ein Kunde I was excited when I first scanned through a friends copy of this book because of its treatment of modern compiler design issues. I ran out, ordered the book, read through it more carefully and realized that it was nothing more than a collection of papers. There would be nothing wrong with this if it were so advertised. The book lacks original analysis. I wouldn't stedfastly say DON'T by this, but, I would say you might be better off just going to your local college CS library and grabbing all the relevant papers referened in the book.

Kurzbeschreibung From the Foreword by Susan L. Graham: This book takes on the challenges of contemporary languages and architectures, and prepares the reader for the new compiling problems that will inevitably arise in the future. The definitive book on advanced compiler design This comprehensive, up-to-date work examines advanced issues in the design and implementation of compilers for modern processors. Written for professionals and graduate students, the book guides readers in designing and implementing efficient structures for highly optimizing compilers for real-world languages. Covering advanced issues in fundamental areas of compiler design, this book discusses a wide array of possible code optimizations, determining the relative importance of optimizations, and selecting the most effective methods of implementation.* Lays the foundation for understanding the major issues of advanced compiler design* Treats optimization in-depth* Uses four case studies of commercial compiling suites to illustrate different approaches to compiler structure, intermediate-code design, and optimization these include Sun Microsystems's compiler for SPARC, IBM's for POWER and PowerPC, DEC's for Alpha, and Intel's for Pentium an related processors* Presents numerous clearly defined algorithms based on actual cases* Introduces Informal Compiler Algorithm Notation (ICAN), a language devised by the author to communicate algorithms effectively to people. Optimizing compilers, which turn human-readable programming languages into the smallest, most efficient machine code possible, are among the most complex pieces of software ever written. Building a compiler is both science and black art and demands an intimate knowledge of data structures, algorithms, high-level programming languages, and processor architectures and their instruction sets. Advanced Compiler Design and Implementation presents a comprehensive and technically up-to-date look at design of real-world compilers for CISC- and RISC-based uni-processor architectures. The author led the advanced compiler design and implementation teams for both Hewlett-Packard's PA-RISC and Sun Microsystems's SPARC processors. Kurzbeschreibung From the Foreword by Susan L. Graham: This book takes on the challenges of contemporary languages and architectures, and prepares the reader for the new compiling problems that will inevitably arise in the future. The definitive book on advanced compiler design This comprehensive, up-to-date work examines advanced issues in the design and implementation of compilers for modern processors. Written for professionals and graduate students, the book guides readers in designing and implementing efficient structures for highly optimizing compilers for real-world languages. Covering advanced issues in fundamental areas of compiler design, this book discusses a wide array of possible code optimizations, determining the relative importance of optimizations, and selecting the most effective methods of implementation.* Lays the foundation for understanding the major issues of advanced compiler design* Treats optimization in-depth* Uses four case studies of commercial compiling suites to illustrate different approaches to compiler structure, intermediate-code design, and optimization these include Sun Microsystems's compiler for SPARC, IBM's for POWER and PowerPC, DEC's for Alpha, and Intel's for Pentium an related processors* Presents numerous clearly defined algorithms based on actual cases* Introduces Informal Compiler Algorithm Notation (ICAN), a language devised by the author to communicate algorithms effectively to people