Advanced Compiler Design and Implementation

By Steven Muchnick

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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

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Editorial Review

Amazon.com Review
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.

From the Back Cover

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About the Author

After an early career as a professor of computer science, Steven Muchnick applied his knowledge of compilers as a vital member of the teams that developed two computer architectures, PA-RISC at Hewlett-Packard and SPARC at Sun Microsystems. Upon completion of the initial work on each architecture, he served as the leader of the advanced compiler design and implementation groups for these systems.

Users Review

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