

Modern Compiler Implementation in ML

By Andrew W. Appel



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This new, expanded textbook describes all phases of a modern compiler: lexical analysis, parsing, abstract syntax, semantic actions, intermediate representations, instruction selection via tree matching, dataflow analysis, graph-coloring register allocation, and runtime systems. It includes good coverage of current techniques in code generation and register allocation, as well as functional and objectoriented languages, that are missing from most books. In addition, more advanced chapters are now included so that it can be used as the basis for twosemester or graduate course. The most accepted and successful techniques are described in a concise way, rather than as an exhaustive catalog of every possible variant. Detailed descriptions of the interfaces between modules of a compiler are illustrated with actual C header files. The first part of the book, Fundamentals of Compilation, is suitable for a one-semester first course in compiler design. The second part, Advanced Topics, which includes the advanced chapters, covers the compilation of object-oriented and functional languages, garbage collection, loop optimizations, SSA form, loop scheduling, and optimization for cache-memory hierarchies.



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Modern Compiler Implementation in ML By Andrew W. Appel Bibliography

• Sales Rank: #484251 in Books

• Brand: Brand: Cambridge University Press

Published on: 2004-07-08Original language: English

• Number of items: 1

• Dimensions: 9.69" h x 1.10" w x 7.44" l, 2.12 pounds

• Binding: Paperback

• 552 pages



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