



Modern Compiler Implementation in C: Basic Techniques

Andrew W. Appel, Maia Ginsburg

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This textbook explains all phases of a modern compiler: lexical analysis, parsing, abstract syntax, semantic actions, intermediate representations, instruction selection via tree matching, dataflow analysis, graph-colouring register allocation with coalescing, and runtime systems. It covers current techniques in code generation and register allocation, as well as functional and object-oriented languages, which are missing from most books. The author illustrates the most accepted and successful techniques in a concise way, rather than as an exhaustive catalogue of every possible variant. Detailed descriptions of the interfaces between modules of a compiler are illustrated with actual C header files. A unique feature of the book is a well-designed compiler implementation project in C, including front-end and 'high-tech' back-end phases, so that students can build a complete working compiler in one semester. The textbook is meant for use in a one-semester first course for undergraduates in compiler design. Accompanying support software is available.

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