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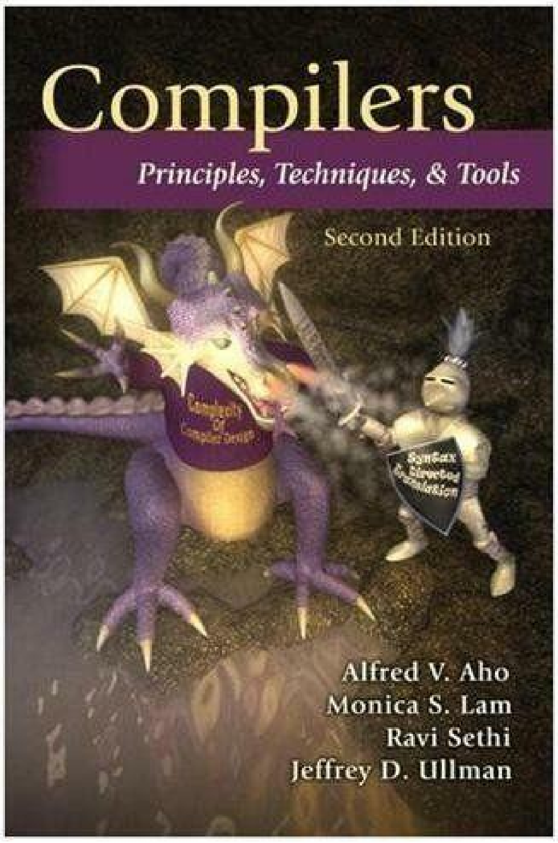
Compilers
Principles, Techniques, & Tools
Second Edition
Complexity of Compiler Design
Syntax Directed Translation
Alfred V. Aho
Monica S. Lam
Ravi Sethi
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In the second edition we added an appendix of collected results that motivated the design of our algorithm and improved its correctness. In the present third edition we correct and extend the appendices, including the results on relational schemas, optimization, and application to constraint-based compiler construction. This book provides a systematic development of a new, simple, and efficient algorithm for recognizing and compiling recursive descent parsers. The algorithm operates by constructing state-transition diagrams in which the parser can be described as a Deterministic Finite Automaton (DFA). It uses a novel representation technique that requires only a constant amount of space for each state, and computes the set of final states in linear time. The algorithm was implemented by the author in an actual recursive descent parser and its effectiveness was demonstrated on a variety of grammars. This book develops new methods for generating algorithms to recognize strings with a regular expression, and more generally to find efficiently many optimal parse trees. It shows that a two-level generation technique is not only more natural than older approaches, but also leads to very efficient algorithms. The approach is to represent the strings in terms of a binary tree, and then to use a tree-growing algorithm to generate the parse tree. The paper examines the problem of optimal tree generation, showing that most optimal algorithms, and indeed most algorithms, are not optimal. In addition, this paper provides several techniques for improving the running time of existing algorithms. This paper gives a formal presentation of two approaches to dealing with context-sensitive grammars. Both of these approaches have been used in natural language processing. The first is the usual approach, of building a deterministic finite automaton that recognizes a grammar, given an input string. The second approach uses a nondeterministic automaton that accepts the parse tree of a context-sensitive grammar. The advantages of the second approach are its simplicity and its generality: it can recognize many context-sensitive grammars. The disadvantages of the second approach are that it is more complex and that it may require a search for the shortest parse tree, although there are heuristics that can be used to find an optimal solution. This book is a survey of past and current research in the area of static program analysis. It focuses on techniques and tools for analysing programs written in high-level programming languages. These tools cover basic formal verification techniques, such as taint analysis and backward engineering, and more advanced static analysis techniques, such as model checking, formal refinement, and program transformation. 82157476af

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