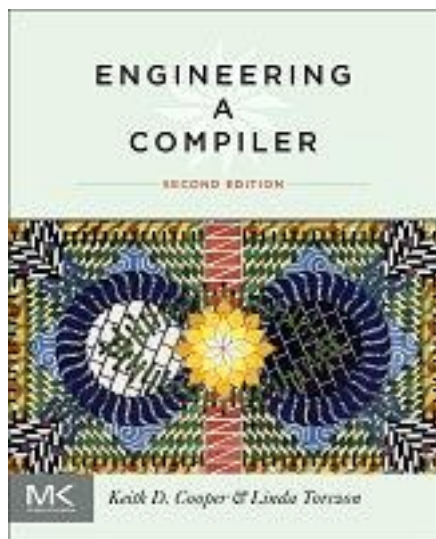


Engineering a Compiler, Second Edition



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This entirely revised second edition of *Engineering a Compiler* is full of technical updates and new material covering the latest developments in compiler technology. In this comprehensive text you will learn important techniques for constructing a modern compiler. Leading educators and researchers Keith Cooper and Linda Torczon combine basic principles with pragmatic insights from their experience building state-of-the-art compilers. They will help you fully understand important techniques such as compilation of imperative and object-oriented languages, construction of static single assignment forms, instruction scheduling, and graph-coloring register allocation.

In-depth treatment of algorithms and techniques used in the front end of a modern compiler

Focus on code optimization and code generation, the primary areas of recent research

and development

Improvements in presentation including conceptual overviews for each chapter, summaries and review questions for sections, and prominent placement of definitions for new terms

Examples drawn from several different programming languages

作者介绍:

Keith D. Cooper is the Doerr Professor of Computational Engineering at Rice University. He has worked on a broad collection of problems in optimization of compiled code, including inter- procedural data-flow analysis and its applications, value numbering, algebraic reassociation, register allocation, and instruction scheduling. His recent work has focused on a fundamental reexamination of the structure and behavior of traditional compilers. He has taught a variety of courses at the undergraduate level, from introductory programming through code optimization at the graduate level. He is a Fellow of the ACM.

Linda Torczon, Senior Research Scientist, Department of Computer Science at Rice University, is a principal investigator on the Platform-Aware Compilation Environment project (PACE), a DARPA-sponsored project that is developing an optimizing compiler environment which automatically adjusts its optimizations and strategies to new platforms. From 1990 to 2000, Dr. Torczon served as executive director of the Center for Research on Parallel Computation (CRPC), a National Science Foundation Science and Technology Center. She also served as the executive director of HiPerSoft, of the Los Alamos Computer Science Institute, and of the Virtual Grid Application Development Software Project (VGrADS).

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标签

编译原理

编译器

Compiler

计算机科学

计算机

compiler

Programming

编译

评论

Keith Cooper人非常好，书也写得不错，酷爱穿花衬衫

比龙书更适合，前端部分完全没有必要那么多，这本书更均衡一点。

挺不错的

其實只翻了幾個章節...

新年第一本

书中 parsing 部分讲的太好了，并且配了大量的精美图例，读这本书时，配合 Compiler Construction 一起看更好

深入浅出。但要深入理解，还需动手写代码

这本书前半本可以略过。后半本可以再浓缩一点。每章的Chapter Note不错，里面有大量的reference。总得来说，是本不错的入门书，起到了提纲携领的作用。

时隔写完编译器大作业多年又读了一遍这本书，着重学习了一下之前没来得及做的SSA及基于SSA的优化，终于解决了某些困扰我多年的疑惑。不过分拘泥于细节同时不缺失必要的细节，每段算法之后都会有很长的解释，属于我读起来很舒服的写作风格。唯一让我觉得不满的是感觉大局观有些缺失，很少有哲学层面的探讨，做优化容易陷入加速某些特定的情况，而怎样的抽象是必要的，可能需要站在更高的视角。

现代编译器设计，简称EAC。

之前买了中文版，看的不过瘾，最后还是买了原版，看过几遍，理论介绍的真的很好。

roadmap on compiler

难

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书评

我现在在看这本书的原版，基本快看完了。我觉得对于对编译有兴趣，特别是后端优化有兴趣的同学，这本书绝对是值得推荐的。编译技术是计算机科学中的显学，无数学者专家们的心血凝结成汗牛充栋的资料，而且这些资料也随着时间在飞速增加。因此，对于编译来讲，没有那本书就是...

说翻译的差不知道怎么得出结论的。

真正翻译差的，那是对技术一窍不通的人翻译的技术书，看了让人摸不到头脑，不知所云。你要说接口和界面互通还行，有的干脆翻译到完全离谱了。。。具体的不记得。但这本书的翻译，我觉得水准很高。你可以不必看英文版，只看中文版就会得到它...

关于翻译：

我对中文要求不高，明白、准确即可；基于这样的观点，我觉得，中文翻译得不错，基本上做到了准确、明白；虽然勘误多一些，但至少比翻译龙书的教授们强一些；估计译者是搞技术的，不至于像教授们那样眼高手低，呵呵
有人觉得翻译差，我确实就不明白了。 ...

看过英文版的一部分，但是足以让我折服。

全书讲解清晰，附有伪代码讲解，非常具体，跟着代码走一边，所有概念了然于胸，读完词法分析、语法分析章节后感觉真乃天下奇书也。相比之下，国防工业出版社的这本书<http://book.douban.com/subject/1231706/>可以烧了。我也读过几章中...

大家还是看英文的吧，这本书的翻译简直发指，前端部分不是没问题，只是大家都很熟，连猜带看的过，不过好在有索引，能挖一些好东西。

后端部分的讲解，难以理解的比比皆是，比如我随手翻的， p255,

“编码到树遍历代码生成器中的代码形式方面的决策”，这你妹的不是工具翻译的...

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