

Adaptive Optimizing Compilers for the 21st Century

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Abstract

Historically, compilers have operated by applying a fixed set of optimizations in a predetermined order. We call such an ordered list of optimizations a *compilation sequence*. This paper describes a prototype system that uses biased random search to discover a program-specific compilation sequence that minimizes an explicit, external objective function. The result is a compiler framework that adapts its behavior to the applications being compiled, to the pool of available transformations, to the objective function, and to the target machine.

This paper describes experiments that attempt to characterize the space that the adaptive compiler must search. The preliminary results suggest that optimal solutions are rare and that local minima are frequent. If this holds true, biased random searches, such as a genetic algorithm, should find good solutions more quickly than simpler strategies, such as hill climbing.

1 The Changing Landscape

Each year, microprocessors, microcontrollers, and other computing engines find application in new areas. The number of computers in use is growing rapidly, as is the diversity of those systems. The variety among processors—different instruction sets, different performance parameters, different memory hierarchies—is increasing. Even commodity microprocessors come in low-power versions, embedded versions, and a variety of high-performance versions; the performance parameters of these versions can differ widely. Processors have also grown more complex, with multiple functional units, exposed pipelines, and myriad latencies that must be managed. In most cases, these computers execute code produced by a compiler—a translator that consumes source code and produces equivalent code for some target machine.

At the same time, the application of computing to new problems has created demand for compilers that optimize programs for new criteria, or new *objective functions*. In the 1980s and the early 1990s, the speed of compiled code was the dominant concern of users. In the late 1990s, the size of compiled code became an issue, driven by limited memory in embedded systems and by the importance of compiled applications transmitted over the Internet. The rise of embedded systems has also sparked interest in compiler techniques that can reduce the power consumed during execution [27, 28, 4, 15]. The classic approach to the appearance of a new objective function has been to formulate new transformations and add them to the optimizer.

The community has been building optimizing compilers for forty years. We know how to build optimizing compilers that produce efficient code for a single uniprocessor target. We can do this for most modern processors. We have learned to build compilers that are easier to retarget but produce less optimized code. Such “retargetable” compilers are used in many situations where the economics cannot justify a large standalone compiler effort. What we have not developed is an economical way to produce high-quality compilers for a wide variety of target machines.¹ Unfortunately, we have also learned that building high-quality compilers is expensive, primarily because it requires years of effort by experts, who are usually in short supply.

¹The resources devoted to compiler development vary widely. Contrast, for example, the excellent code produced by the compiler for Cray’s (Tera’s) MTA architecture (with 1 or 2 installed systems) against the code quality achieved by typical compilers for Pentium-based systems (with a huge number of installed units).

21st Century Compilers

Patrick Vollmar



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Table of Contents 21st Century Compilers

1. Understanding the eBook 21st Century Compilers
 - The Rise of Digital Reading 21st Century Compilers
 - Advantages of eBooks Over Traditional Books
2. Identifying 21st Century Compilers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 21st Century Compilers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 21st Century Compilers
 - Personalized Recommendations

- 21st Century Compilers User Reviews and Ratings
- 21st Century Compilers and Bestseller Lists
- 5. Accessing 21st Century Compilers Free and Paid eBooks
 - 21st Century Compilers Public Domain eBooks
 - 21st Century Compilers eBook Subscription Services
 - 21st Century Compilers Budget-Friendly Options
- 6. Navigating 21st Century Compilers eBook Formats
 - ePub, PDF, MOBI, and More
 - 21st Century Compilers Compatibility with Devices
 - 21st Century Compilers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 21st Century Compilers
 - Highlighting and Note-Taking 21st Century Compilers
 - Interactive Elements 21st Century Compilers
- 8. Staying Engaged with 21st Century Compilers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 21st Century Compilers
- 9. Balancing eBooks and Physical Books 21st Century Compilers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 21st Century Compilers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 21st Century Compilers
 - Setting Reading Goals 21st Century Compilers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 21st Century Compilers
 - Fact-Checking eBook Content of 21st Century Compilers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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