



Write Great Code, Volume 2: Thinking Low-Level, Writing High-Level

By *Randall Hyde*

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Write Great Code, Volume 2: Thinking Low-Level, Writing High-Level By Randall Hyde

The second volume in the Write Great Code series supplies the critical information that today's computer science students don't often get from college and university courses: How to carefully choose their high-level language statements to produce efficient code. *Write Great Code, Volume 2: Thinking Low-Level, Writing High-Level*, teaches software engineers how compilers translate high-level language statements and data structures into machine code. Armed with this knowledge, a software engineer can make an informed choice concerning the use of those high-level structures to help the compiler produce far better machine code--all without having to give up the productivity and portability benefits of using a high-level language.

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Editorial Review

Review

"Exceeds its goal of helping developers pay more attention to application performance . . . a must for any high-level application developer." -- *Free Software Magazine*, May 9, 2006

"If you want to know what's really going on with your programs . . . you won't find an easier introduction." -- *DevX*, April 14, 2006

From the Back Cover

No prior knowledge of assembly language required!

In the beginning, most software was written in assembly, the CPU's low-level language, in order to achieve acceptable performance on relatively slow hardware. Early programmers were sparing in their use of high-level language code, knowing that a high-level language compiler would generate crummy, low-level machine code for their software. Today, however, many programmers write in high-level languages like C, C++, Pascal, Java, or BASIC. The result is often sloppy, inefficient code. You don't need to give up the productivity and portability of high-level languages in order to produce more efficient software.

In this second volume of the Write Great Code series, you'll learn:

- How to analyze the output of a compiler to verify that your code does, indeed, generate good machine code
- The types of machine code statements that compilers typically generate for common control structures, so you can choose the best statements when writing HLL code
- Just enough 80x86 and PowerPC assembly language to read compiler output
- How compilers convert various constant and variable objects into machine data, and how to use these objects to write faster and shorter programs

With an understanding of how compilers work, you'll be able to write source code that they can translate into elegant machine code. That understanding starts right here, with Write Great Code, Volume 2: Thinking Low-Level, Writing High-Level.

About the Author

Randall Hyde is the author of Write Great Code Volumes 1 and 2 (No Starch Press) and the co-author of MASM 6.0 Bible (The Waite Group). He has written for Dr. DobbsTM Journal, Byte, and various professional journals. Hyde taught assembly language at the University of California, Riverside for over a decade.

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Playing with family in the park, coming to see the sea world or hanging out with buddies is thing that usually you have done when you have spare time, subsequently why you don't try matter that really opposite from that. 1 activity that make you not experience tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of knowledge. Even you love Write Great Code, Volume 2: Thinking Low-Level, Writing High-Level, you could enjoy both. It is excellent combination right, you still need to miss it? What kind of hang type is it? Oh come on its mind hangout fellas. What? Still don't get it, oh come on its called reading friends.

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