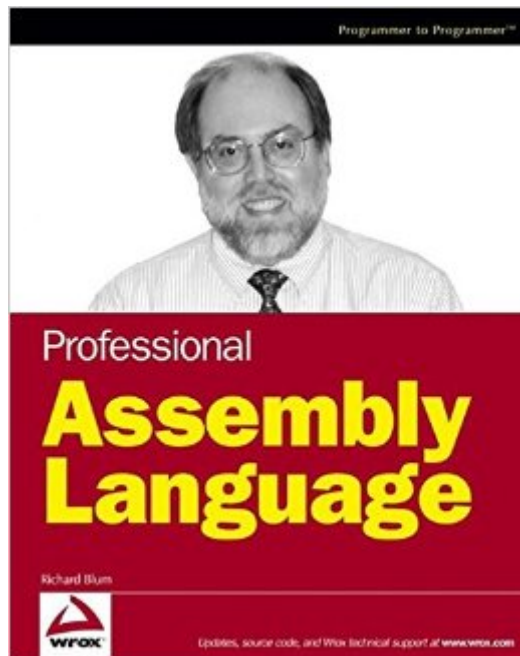The book was found

Professional Assembly Language

Synopsis

Unlike high-level languages such as Java and C++, assembly language is much closer to the machine code that actually runs computers; it's used to create programs or modules that are very fast and efficient, as well as in hacking exploits and reverse engineering Covering assembly language in the Pentium microprocessor environment, this code-intensive guide shows programmers how to create stand-alone assembly language programs as well as how to incorporate assembly language libraries or routines into existing high-level applications Demonstrates how to manipulate data, incorporate advanced functions and libraries, and maximize application performance Examples use C as a high-level language, Linux as the development environment, and GNU tools for assembling, compiling, linking, and debugging

Book Information

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Customer Reviews

About the syntax used - yes,through all the book only the AT&T assembly syntax is used. The obvious reason is that most popular compiler on Linux is GCC, which has GAS (GNU Assembler) as the behind the scenes assembler invoked by GCC every time you compile your code. And native to GAS is the AT&T syntax and not the Intel syntax, which is deemed more readable.Now to the book contents. As there is no previous knowledge of assembly assumed, the reader is first given a quite detailed view of the Intel processors architecture, including coverage of modern features like the Netburst design, present in modern Pentium series processors.Then basics of the tools of the trade are presented.With this preliminary knowledge the reader is prepared to begin the major part of the

book - the assembly language itself.The learning curve is flattened as much as possible by the author, guiding us through all the major domains of assembly programming - working with processor registers, stack and heap manipulation, floating point arithmetic,handling various data types (strings, integers, floating point numbers) and more.All the chapters contain stand alone code examples ready to be compiled and run. Most of the example code is 30-40 lines long and relates to the particular point being explained, i.e. there's no intentional cross-reference between code samples in different chapters. Starting at the chapter 12, "Linux System Calls", begins what this book was written for - how to apply gathered so far knowledge to the real world.

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