

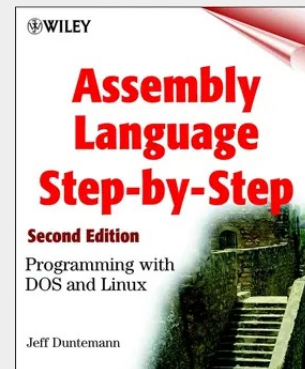
Assembly Language Step-by-Step

Programming with DOS and Linux

Assembly language is used for translating code from a computer's machine language. As with the best-selling first edition, this book offers a complete, step-by-step guide to this programming language. Throughout the book, presents working example programs are presented for both DOS and Linux operating systems.

Assemblerprogrammierung ist alles andere als veraltet! Die Neuauflage dieses Bestsellers widmet sich jetzt auch der Programmierung unter Linux. Systematisch beschrieben werden alle Schritte der Erstellung von Assemblerprogrammen - Entwicklung, Testung, Debugging. Darüber hinaus werden wertvolle Informationen zur Benutzung von Procedures und Makros vermittelt. Dies ist der einzige Leitfaden zur Assemblerprogrammierung, der DOS und Linux abdeckt, Beispielprogramme für beide Betriebssysteme enthält und Conditional Assembly vorstellt, ein Verfahren, das es ermöglicht, aus nur einer Quelldatei Programme für DOS- und Linux-Systeme zu erstellen. Zum Buch gehört eine CD mit Net-Wide Assembler (NASM), Command Shell, Linker und weiteren Tools für DOS und Linux. (04/00)

The bestselling guide to assembly language-now updated and expanded to include coverage of Linux This new edition of the bestselling guide to assembly programming now covers DOS and Linux! The Second Edition begins with a highly accessible overview of the internal operations of the Intel-based PC and systematically covers all the steps involved in writing, testing, and debugging assembly programs. Expert author Jeff Duntemann then presents working example programs for both the DOS and Linux operating systems using the popular free assembler NASM. He also includes valuable information on how to use procedures and macros, plus rare explanations of assembly-level coding for Linux, all of which combine to offer a comprehensive look at the complexities of assembly programming for Intel processors. Providing you with the foundation to create executable assembly language programs, this book: * Explains how to use NASM-IDE, a simple program editor and assembly-oriented development environment * Details the most used elements of the 86-family instruction set * Teaches about DEBUG, the single most useful tool you have as an assembly language programmer * Examines the operations that machine instructions force the CPU to perform * Discusses the process of memory addressing * Covers coding for Linux The CD-ROM includes: * Net-Wide Assembler (NASM) for both DOS and Linux * NASM-IDE, a command shell and code editor for DOS * ALINK, a free linker for DOS programming * All program code examples from the book



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