

[PDF] Assembly Language For Intel-Based Computers (3rd Edition)

Kip R. Irvine - pdf download free book

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Description:

From the Back Cover

This text is designed for students and professionals interested in learning the basics of operating systems, architecture, and programming in the context of a microprocessor. In his eagerly anticipated fourth edition, Kip Irvine concentrates on the combined Windows/MS-DOS operating system and thoroughly covers 32-bit assembly language applications for Intel-based computers.

Focusing on how to approach programming problems with a machine-level mindset, Assembly Language for Intel(r)-Based Computers includes the following features:

- Detailed tutorials on numbering systems and data storage fundamentals.
- All programs tested with the Microsoft(r) MASM 6.15(tm) assembler.
- Inline assembly code, as well as linking assembly language to C/C++ in both Real and Protected modes.
- Extensive instruction set reference that includes instruction formats and CPU flag usage.
- Interrupt vectoring and device I/O.
- CD-ROM that includes the full professional version of the Microsoft(r) MASM 6.15(tm) Assembly Language Development System, a programmer's editor, a macro library, and the book's source code.

New to the fourth edition:

- Win32 programming, including the console API and a graphical application.
- Expanded coverage of procedures, recursion, stack parameters, structures, and unions.
- Boolean expressions, truth tables, and flowcharts.
- Basic string handling, sorting and searching algorithms.
- Bit-mapped graphics in both Real and Protected modes.
- IEEE floating-point binary representation.
- Virtual machine architecture; IA-32 Protected mode segmentation and paging.
- Introductory explanations of the instruction execution cycle, memory I/O, multitasking, pipelining, and superscalar architecture.
- Disk fundamentals, including disk geometry, FAT32 and NTFS file structures.

--This text refers to an out of print or unavailable edition of this title.

About the Author Kip Irvine has written four computer programming textbooks, for Intel Assembly Language, C++, Visual Basic, and COBOL. His Assembly Language for Intel-Based Computers has been translated to six languages, and has been a best seller since 1990. Kip grew up in Hawaii as a surfer, sailor, and surfboard maker. He studied classical guitar and music composition at University of Hawaii, eventually earning his music doctorate from the University of Miami. He began programming computers for music synthesis around 1982, and taught at Miami-Dade Community College. He has a Masters degree in Computer Science from the University of Miami, and is currently on the computer science faculty at Florida International University. --This text refers to the edition.

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