The Intel Microprocessors 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, and Pentium Pro Processor Architecture, Programming, and Inter- facing

By Barry B. Brey

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For introductory-level Microprocessor courses in departments of Electronic Engineering Technology or Electrical Engineering. Keeping students on the forefront of technology, this timely text offers a practical reference to all programming and interfacing aspects of the popular Intel family of microprocessors. Organized in an orderly and manageable format that stimulates and challenges understanding, the text contains numerous example programs using the Microsoft Macro Assembler program, and provides a thorough description of each Intel family member, memory systems, and various I/O systems.

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- Sales Rank: #1713777 in Books
- Published on: 2002-08-15
- Original language: English
- Number of items: 1
- Dimensions: 10.25" h x 1.63" w x 8.25" l,
- Binding: Hardcover
- 1024 pages

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Editorial Review

From the Back Cover

Intel microprocessors have gained wide application in many areas of electronic communications, control systems, and desktop computer systems. This practical text is written for anyone who requires or desires a thorough knowledge of microprocessor programming and interfacing.

Now in its sixth edition, *The Intel Microprocessors* is thoroughly updated to provide comprehensive coverage of the latest developments in the field of microprocessors. It serves as a reference and instructional tool for the reader to:

- Develop software to control an application interface microprocessor
- Program using DOS function calls to control the keyboard, video display systems, and disk memory in assembly language
- Use BIOS functions to control the keyboard, display, and various other components in the computer system
- Develop software that uses macro sequences, procedures, conditional assembly, and flow control assembler directives
- Develop software that uses interrupt hooks and hot keys to gain access to terminate and stay resident software
- Program the numeric coprocessor to solve complex equations
- Explain the differences between family members and highlight the features of each member
- Describe and use the real and protected modes of the microprocessor
- Interface memory and I/O systems to the microprocessor
- Provide detailed and comprehensive comparison of all family members, their software, and hardware interface
- Explain the function of the real-time operating system in an embedded application
- Explain the operation of disk and video systems
- Interface small systems to the ISA, VESA local, PCI, parallel port, and USB bus in a personal computer system

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