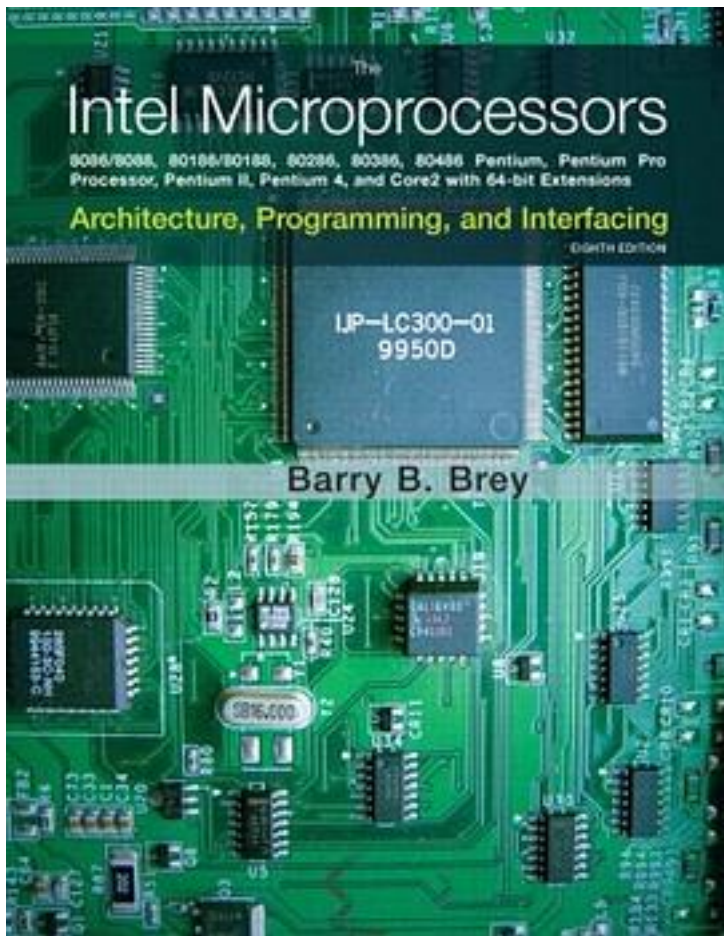


The Intel Microprocessors



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For introductory-level Microprocessor courses in the departments of Electronic Engineering Technology, Computer Science, or Electrical Engineering. The INTEL Microprocessors: 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, Pentium Pro

Processor, Pentium II, Pentium III, Pentium 4, and Core2 with 64-bit Extensions, 8e provides a comprehensive view of programming and interfacing of the Intel family of Microprocessors from the 8088 through the latest Pentium 4 and Core2 microprocessors. The text is written for students who need to learn about the programming and interfacing of Intel microprocessors, which have gained wide and at times exclusive application in many areas of electronics, communications, and control systems, particularly in desktop computer systems. A major new feature of this eighth edition is an explanation of how to interface C/C++ using Visual C++ Express (a free download from Microsoft) with assembly language for both the older DOS and the Windows environments. Many applications include Visual C++ as a basis for learning assembly language using the inline assembler. Updated sections that detail new events in the fields of microprocessors and microprocessor interfacing have been added. Organized in an orderly and manageable format, this text offers more than 200 programming examples using the Microsoft Macro Assembler program and provides a thorough description of each of the Intel family members, memory systems, and various I/O systems.

作者介绍:

德福瑞大学 (DeVry University) 荣誉退休教授。他是美国关于微处理器和汇编语言著作的主要作者，至今著有33部教材。其个人主页为<http://members.ee.net/brey/index.html>。

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标签

计算机

硬件

Intel

处理器

CPU

计算机科学

英文

汇编

评论

以前一直学语言的时候不明就里的背语法，指针地址引用几个概念总是分不开来，对底层知识了解更多才能更快的吸收新的知识。其实硬件在发展的过程中也是一样，从开始以最简单的方式去实现，然后在那个基础上一点点堆加起来，从开始的8位到16位到现在64位，从实模式到保护模式。要让每一次设计都能实在的有用，可扩展，在软件上也是一样的。

微机课程教材。

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书评

这本非常适合汇编程序员和需要进行硬件编程的人（PCI,总线，USB）等等。我在图书馆读了一半。总结如下 优点：

- 1) 一上来就讲了保护模式和真实模式。而其他类似的书一般都是到中间才讲。
- 2) 很详细地解释了汇编语言的命令机制。尤其解释了它们如何执行；数据如何从内存到寄存器...

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