

<<Intel微处理器>>

图书基本信息

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内容概要

Intel微处理器已经在电子、通信、控制系统和桌面计算机系统等领域得到了广泛的应用。

本书从实用的角度出发,全面介绍了Intel系列微处理器的编程和接口技术。

主要内容包括:微处理器的编程模式和系统结构; Intel系列微处理器指令; 在C/C++程序中编制汇编程序模块; 存储器接口; 基本输入/输出技术; 数值协处理器及MMX技术; 总线接口; 8086/8088、80186/80188~80486、Pentium系列微处理器等。

与第四版相比,本书增加了如何将汇编语言与C/C++结合起来编程、USB接口、MMX技术及Pentium等内容。

书中列举了大量实例,具有较强的实用性; 本书内容系统,结构合理,叙述详尽,每章前有学习目标、章后有小结及习题,并配有大量图表,易为读者接受。

此外,本书内容较新,使读者能够把握技术发展的前沿。

本书可作为高等院校相关课程教材。

对于希望掌握Intel微处理器编程和接口技术的读者来说,本书也是一本很好的参考书。

内容: 1. 微处理器及计算机系统概述 2. 微处理器及其系统结构 3. 寻址方式 4. 数据传送指令 5. 算术与逻辑指令 6. 程序控制指令 7. 微处理器编程技术 8. 在C/C++中使用汇编语言 9. 8086/8088硬件性能指标 10. 存储器接口 11. 基本输入/输出接口 12. 中断 13. 直接存储器存取(DMA)和DMA控制的I/O 14. 数值协处理器和MMX技术 15. 总线接口 16. 80186, 80188及80286微处理器 17. 80384和80486微处理器 18. Pentium和Pentium Pro 微处理器 19. Pentium 微处理器 附录A 汇编程序、DOS、BIOS、鼠标和DPMI内存管理器 B 指令集汇总 C 标志位变化表 D 偶数题号习题答案 索引

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