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<<计算机组织与结构>>

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内容概要

《计算机组织与结构——性能设计(第8版英文版)》以Intel x86系列通用处理器和ARM系列嵌入式处理器作为主要考察实例，将当代计算机系统性能设计问题和计算机组织与结构的基本概念及原理紧密联系。
首先介绍计算机的发展与演变，引人性能评价和性能设计的概念，然后以自顶而下的方式逐层展开介绍计算机系统、存储器体系结构、I/O及互连、计算机算术、指令集体系结构的设计及其实现技术、控制器设计，最后还介绍了处理器的各种并行组织技术。
本书特色在于探讨和揭示面向性能的各种设计博弈和实现考量，追逐性能极大化的同时顾及系统整体的性能平衡。

《计算机组织与结构——性能设计(第8版英文版)》可以作为高等院校信息领域的本科生、研究生和教师的双语教学教材或教学参考书，对于从事计算机研究与开发的技术人员，也是一本颇具指导意义的参考读物。
本书由斯托林斯(William Stallings)著。

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作者简介

William
Stallings，作为一名顾问、讲师和17本(不包括再版)著作的作者，William
Stallings是计算机界的一位巨擘。
本书第四版获得了由美国教科书与高等院校作者协会(Text and Academic Autho
Association)颁发的2002年度最佳计算机与工程图书奖。
他还因其大量优秀作品获得了很多其他的奖项。
他从Notre
Dame获得电子工程硕士学位后，在MIT获得计算机科学博士学位。
他维护了一个面向计算机科学的学生资源网站：http：//WilliamStallings.com/StudentSupport.html。
他在PrenticeHall公司出版的所有图书均可以在网站http：//www.prenhall.com上找到。

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