

## <<MIPS体系结构透视>>

### 图书基本信息

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### 内容概要

第2版不仅对第1版进行了彻底的更新，而且还将应用广泛的RISC系统结构MIPS与开源操作系统Linux结合在了一起。

本书的第一部分从MIPS设计原理开始，进而阐述了MIPS指令集和程序员资源。

书中还以MIPS32/MIPS64 标准为基准，对其他体系结构进行了比较。

与第1版相比，第2版的显著变化是封面图片——小企鹅坐在驾驶员的位置上，本书以此作为研究来自Linux内核的真正的低层操作系统的实例，并且展示Linux (包括单处理器和SMP) 如何构建于MIPS体系结构所提供的基础之上。

本书从操作系统的底层 (中断、内存调度) 开始，进而描述更高级的 Linux/MIPS应用代码如何载入到内存、连接到库并运行。

- 清晰地阐述了Linux如何在硬件上运行。
- 提供了完整的、更新的和简单易用的MIPS指令集指南。
- 本版保留了第1版可读性好的写作风格，凝聚了作者在基于MIPS体系结构的系统设计方面20多年的经验。

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### 作者简介

Dominic Sweetman。

是一名有经验的硬件系统、CPU、网络和操作系统设计者和开发者，他的丰富经验来自于低层编码、操作系统开发、局域网、分布式系统。

他是Whitechapel Workstations的创立者之一，并在1988年创建了一家MIPS咨询公司——Algorithmics。

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