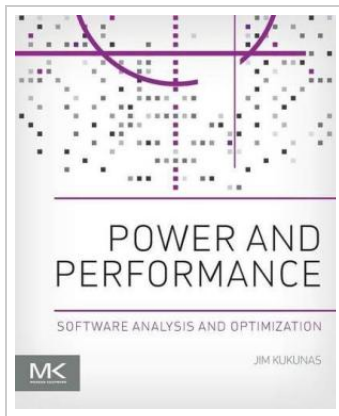




Power and Performance

By Kukunas, Jim

Condition: New. Publisher/Verlag: Morgan Kaufmann | Software Analysis and Optimization | Power and Performance: Software Analysis and Optimization is a guide to solving performance problems in modern Linux systems. Power-efficient chips are no help if the software those chips run on is inefficient. Starting with the necessary architectural background as a foundation, the book demonstrates the proper usage of performance analysis tools in order to pinpoint the cause of performance problems, and includes best practices for handling common performance issues those tools identify. Provides expert perspective from a key member of Intel's optimization team on how processors and memory systems influence performance. Presents ideas to improve architectures running mobile, desktop, or enterprise platforms. Demonstrates best practices for designing experiments and benchmarking throughout the software lifecycle. Explains the importance of profiling and measurement to determine the source of performance issues.

Introduction

Part I: Background Knowledge

Chapter 1: Early Intel Architecture

Chapter 2: Intel Pentium processors

Chapter 3: Intel Core processors

Chapter 4: Performance Workflow

Chapter 5: Designing Experiments

Part II: Monitors

Chapter 6: Introduction to Profiling

Chapter 7: Intel VTune Amplifier XE

Chapter 8: Perf

Chapter 9: Ftrace

Chapter 10: GPU Profiling Tools

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