



Understanding the Linux Kernel (2nd Edition)

By Daniel P. Bovet; Marco Cesati

O'Reilly Media, 2002. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface 1. Introduction Linux Versus Other Unix-Like Kernels Hardware Dependency Linux Versions Basic Operating System Concepts An Overview of the Unix Filesystem An Overview of Unix Kernels 2. Memory Addressing Memory Addresses Segmentation in Hardware Segmentation in Linux Paging in Hardware Paging in Linux 3. Processes Processes, Lightweight Processes, and Threads Process Descriptor Process Switch Creating Processes Destroying Processes 4. Interrupts and Exceptions The Role of Interrupt Signals Interrupts and Exceptions Nested Execution of Exception and Interrupt Handlers Initializing the Interrupt Descriptor Table Exception Handling Interrupt Handling Softirqs, Tasklets, and Bottom Halves Returning from Interrupts and Exceptions 5. Kernel Synchronization Kernel Control Paths When Synchronization Is Not Necessary Synchronization Primitives Synchronizing Accesses to Kernel Data Structures Examples of Race Condition Prevention 6. Timing Measurements Hardware Clocks The Linux Timekeeping Architecture CPU's Time Sharing Updating the Time and Date Updating System Statistics Software Timers System Calls Related to Timing Measurements 7. Memory Management Page Frame Management Memory Area Management Noncontiguous Memory Area Management 8. Process Address Space The Process's Address Space The Memory Descriptor Memory Regions Page Fault Exception Handler Creating and Deleting a...

Reviews

A must buy book if you need to adding benefit. Of course, it is actually perform, still an interesting and amazing literature. I am delighted to explain how this is basically the best book i actually have read through during my individual life and may be he best book for at any time.

-- **Jarod Bartoletti**

It is an remarkable pdf that I actually have actually read. It really is packed with knowledge and wisdom I am very happy to tell you that this is the finest ebook i actually have go through during my very own life and may be he very best book for actually.

-- **Hailey Jast Jr.**