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The Linux Kernel Module Programming Guide

Springer Science & Business Media

The end of dramatic exponential growth in single-processor performance marks the end of the dominance of the single microprocessor in computing. The era of sequential computing must give way to a new era in which parallelism is at the forefront. Although important scientific

and engineering challenges lie ahead, this is an opportune time for innovation in programming systems and computing architectures. We have already begun to see diversity in computer designs to optimize for such considerations as power and throughput. The next generation of discoveries is likely to require advances at both the hardware and software levels of computing systems. There is no guarantee that we can make parallel computing as common and easy to use as yesterday's sequential single-processor computer systems, but unless we aggressively pursue efforts suggested by the recommendations in this book, it will be "game over" for growth in computing performance. If parallel programming and related software efforts fail to become widespread, the

development of exciting new applications that drive the computer industry will stall; if such innovation stalls, many other parts of the economy will follow suit. The Future of Computing Performance describes the factors that have led to the future limitations on growth for single processors that are based on complementary metal oxide semiconductor (CMOS) technology. It explores challenges inherent in parallel computing and architecture, including ever-increasing power consumption and the escalated requirements for heat dissipation. The book delineates a research, practice, and education agenda to help overcome these challenges. The Future of Computing Performance will guide researchers, manufacturers, and information technology professionals in the right direction for sustainable growth in computer performance, so that we may all enjoy the next level of benefits to society.

A Spiral Approach KIT Scientific Publishing

This book constitutes the thoroughly refereed post-proceedings of the 7th International Workshop on Database Programming Languages, DBPL'99, held in Kinloch Rannoch, UK in September 1999. The 17 revised full papers presented together with an invited paper were carefully reviewed and revised for inclusion in the book. The book presents topical sections on querying and query optimization; languages for document models; persistence, components and workflows; typing and querying semistructured data; active and spatial databases; and unifying semistructured and traditional data models.

7th International Workshop on Database Programming Languages, DBPL'99 Kinloch Rannoch, UK, September 1-3, 1999 Revised Papers Wiley

For Introductory Courses in Operating Systems in Computer Science, Computer Engineering, and Electrical Engineering programs. The widely anticipated revision of this worldwide best-seller incorporates the latest developments in operating systems (OS) technologies. The Third Edition includes up-to-date materials on relevant OS such as Linux, Windows, and embedded real-time and multimedia systems. Tanenbaum also provides information on current research based on his experience as an operating systems researcher.

Publications Catalog of the U.S. Department of Commerce John Wiley & Sons

Operating Systems A Modern Perspective Addison Wesley Publishing Company

Itanium Architecture for Programmers Operating Systems A Modern Perspective

The three volume set LNAI 4251, LNAI 4252, and LNAI 4253 constitutes the refereed proceedings of the 10th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2006, held in Bournemouth, UK, in October 2006. The 480 revised papers presented were carefully reviewed and selected from about 1400 submissions. The papers present a wealth of original research results from the field of intelligent information processing.

Principles of Modern Operating Systems McGraw-Hill Science, Engineering & Mathematics

Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

Practical Object-Oriented Design With Uml Pearson Education India

The Common Language Infrastructure (CLI) is a multiple

language runtime system, first implemented as the .NET Common Language Runtime (CLR). In March, 2002 Microsoft released the Shared Source CLI implementation (aka Rotor) for general educational use. The CLI technology can be used to address a spectrum of software design and development barriers that cut across compilers, runtime systems, and operating systems. This book focuses on the parts of the technology that are directly related to Distributed Virtual Machine technology. It covers assembly architecture, assembly loading, downloading, the execution engine, security, CLI interobject communication (remoting), and more. This book is available entirely online at <http://aw-bc.com/nutt/cli> for professor evaluation and classroom use, and for general readers interested in the Rotor CLI.

Operating System (A Practical App) Jones & Bartlett Publishers

An introduction to issues in contemporary operating systems which progresses from concepts that apply to all operating systems to the principles of distributed operating systems. Topics on distributed systems include system management, nets, distributed storage and remote procedure calls.

Second Edition Addison-Wesley Longman

This textbook for computer science majors introduces the principles behind the design of operating systems. Nutt (University of Colorado) describes device drivers, scheduling mechanisms, synchronization, strategies for addressing deadlock, memory management, virtual memory, and file management. This lab update provides examples in the latest versions of Linux and Windows. c. Book News Inc.

The British National Bibliography McGraw-Hill Europe

With Kernel Projects for Linux, Professor Gary Nutt provides a series of 12 lab exercises that illustrate how to implement core operating system concepts in the increasingly popular Linux environment. The makeup of the manual allows readers to learn concepts on a modern

operating system—Linux—while at the same time viewing the source code. This hands-on manual complements any core OS book by demonstrating how theoretical concepts are realized in Linux. Part I presents an overview of the Linux design, offering some insight into such topics as runtime organization and process, file, and device management. Part II consists of a graduated set of exercises where readers move from inspecting various aspects of the operating systems' internals to developing their own functions and data structures for the Linux kernel. This book is designed for programmers who need to learn the fundamentals of operating systems on a modern OS. The progressively harder exercises allow them to learn concepts in a hands-on setting.

Operating Systems S. Chand Publishing

Computer Science: An Overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field. Accessible to students from all backgrounds, Glenn Brookshear uses a language-independent context to encourage the development of a practical, realistic understanding of the field. An overview of each of the important areas of Computer Science (e.g. Networking, OS, Computer Architecture, Algorithms) provides students with a general level of proficiency for future courses. The Eleventh Edition features two new contributing authors (David Smith — Indiana University of PA; Dennis Brylow — Marquette University), new, modern examples, and updated coverage based on current technology.

Embedded Systems: An Integrated Approach National Academies Press

Linux Kernel Module Programming Guide is for people who want to write kernel modules. It takes a hands-on approach starting with writing a small "hello, world" program, and quickly moves from there. Far from a boring text on programming, Linux Kernel Module Programming Guide has a lively style that entertains while it educates. An excellent guide for anyone wishing to get started on kernel module

programming. *** Money raised from the sale of this book supports the development of free software and documentation.

American Book Publishing Record Tata McGraw-Hill Education
Publisher Description

Computer Organisation & Architecture Tata McGraw-Hill Education
Provides an understanding of contemporary operating system concepts by integrating the principles behind design of operating systems with how they are put into practice in the real world. This work also provides a discussion of operating concepts and supplements this with real code examples, algorithms, and discussions about implementation issues.

A Concept-based Approach Addison-Wesley

This textbook provides a perfect amalgam of the basics of computer architecture, intricacies of modern assembly languages and advanced concepts such as multiprocessor memory systems and I/O technologies. It shows the design of a processor from first principles including its instruction set, assembly-language specification, functional units, microprogrammed implementation and 5-stage pipeline. Computer Organisation and Architecture can serve as a textbook in both basic as well as advanced courses on computer architecture, systems programming, and microprocessor design. Additionally, it can also serve as a reference book for courses on digital electronics and communication. Salient Features: ? Balanced presentation of theoretical, qualitative and quantitative aspects of computer architecture ? Extensive coverage of the ARM and x86 assembly languages ? Extensive software support: Instruction set emulators, assembler, Logisim and VHDL design of the SimpleRisc processor

Operating System Concepts McGraw-Hill Education

Embedded Systems: An Integrated Approach is exclusively designed for the undergraduate courses in electronics and communication

engineering as well as computer science engineering. This book is well-structured and covers all the important processors and their applications in a sequential manner. It begins with a highlight on the building blocks of the embedded systems, moves on to discuss the software aspects and new processors and finally concludes with an insightful study of important applications. This book also contains an entire part dedicated to the ARM processor, its software requirements and the programming languages. Relevant case studies and examples supplement the main discussions in the text.

A Modern Perspective "O'Reilly Media, Inc."

Elmasri, Levine, and Carrick's "spiral approach" to teaching operating systems develops student understanding of various OS components early on and helps students approach the more difficult aspects of operating systems with confidence. While operating systems have changed dramatically over the years, most OS books use a linear approach that covers each individual OS component in depth, which is difficult for students to follow and requires instructors to constantly put materials in context. Elmasri, Levine, and Carrick do things differently by following an integrative or "spiral" approach to explaining operating systems. The spiral approach alleviates the need for an instructor to "jump ahead" when explaining processes by helping students "completely" understand a simple, working, functional system as a whole in the very beginning. This is more effective pedagogically, and it inspires students to continue exploring more advanced concepts with confidence.

Game Over or Next Level? CreateSpace

For the Students of B.E. / B.Tech., M.E. / M.Tech. & BCA / MCA It is indeed a matter of great encouragement to write the Third Edition of

this book on 'Operating Systems - A Practical Approach' which covers the syllabi of B.Tech./B.E. (CSE/IT), M.Tech./M.E. (CSE/IT), BCA/MCA of many universities of India like Delhi University, GGSIPU Delhi, UPTU Lucknow, WBUT, RGPV, MDU, etc.

A Machine-Checked, Type-Safe Model of Java Concurrency : Language, Virtual Machine, Memory Model, and Verified Compiler Springer

By staying current, remaining relevant, and adapting to emerging course needs, Operating System Concepts by Abraham Silberschatz, Peter Baer Galvin and Greg Gagne has defined the operating systems course through nine editions. This second edition of the Essentials version is based on the recent ninth edition of the original text. Operating System Concepts Essentials comprises a subset of chapters of the ninth edition for professors who want a shorter text and do not cover all the topics in the ninth edition. The new second edition of Essentials will be available as an ebook at a very attractive price for students. The ebook will have live links for the bibliography, cross-references between sections and chapters where appropriate, and new chapter review questions. A two-color printed version is also available.

Centralized and Distributed Operating Systems Prentice Hall Professional

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Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.