



Professional

Linux Kernel Architecture

Morgan Kaufmann



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Professional Linux Kernel Architecture 09 By Mauerer Wolfgang Paperback 2008

Kaiwan N Billimoria



Professional Linux Kernel Architecture 09 By Mauerer Wolfgang Paperback 2008:

Reliable and Autonomous Computational Science Sung Y. Shin, Rex Gantenbein, Tei-Wei Kuo, Jiman Hong, 2011-02-02

Increasing size and complexity of software and hardware systems makes it harder to ensure their reliability. At the same time the issues of autonomous computing become more critical as we more and more rely on software systems in our daily life. Such complexity is getting even more critical with the ubiquitous computing of embedded devices and other pervasive systems. These trends ask for techniques and tools for developing reliable and autonomous software which can support software engineers in their efforts. This book summarizes the state of the art of research in the diverse fields concerned including novel designs, case studies and experimental as well as theoretical results. *Professional Linux Kernel*

Architecture Wolfgang Mauerer, 2010-03-11. Find an introduction to the architecture concepts and algorithms of the Linux kernel in *Professional Linux Kernel Architecture*, a guide to the kernel sources and large number of connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources. **Linux Kernel Architecture** Waite Group Press, 2000-05-01. Understanding the Linux Kernel Daniel Pierre Bovet, Marco Cesati, 2002. To thoroughly understand what makes Linux tick and why it is so efficient, you need to delve deep into the heart of the operating system into the Linux kernel itself. The kernel is Linux in the case of the Linux operating system; it is the only bit of software to which the term Linux applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time and in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of *Understanding the Linux Kernel* takes you on a guided tour through the most significant data structures, many algorithms and programming tricks used in the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments of code are dissected and discussed line by line. The book covers more than just the functioning of the code; it explains the theoretical underpinnings for why Linux does things the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail. Other topics in the book include Memory management including file buffering, process swapping and Direct memory Access (DMA). The Virtual Filesystem and the Second Extended Filesystem. Process creation and scheduling. Signals, interrupts and the essential interfaces to device drivers. Timing Synchronization in the kernel. Interprocess Communication (IPC). Program execution. *Understanding the Linux Kernel Second Edition* will acquaint you with all the inner workings of Linux, but is more

than just an academic exercise You ll learn what conditions bring out Linux s best performance and you ll see how it meets the challenge of providing good system response during process scheduling file access and memory management in a wide variety of environments If knowledge is power then this book will help you make the most of your Linux system

Professional Linux Kernel Programming Wrox,2002-11-01 **Hands-On System Programming with Linux**

Kaiwan N Billimoria,2018-10-31 Get up and running with system programming concepts in Linux Key FeaturesAcquire insight on Linux system architecture and its programming interfacesGet to grips with core concepts such as process management signalling and pthreadsPacked with industry best practices and dozens of code examplesBook Description The Linux OS and its embedded and server applications are critical components of today s software infrastructure in a decentralized networked universe The industry s demand for proficient Linux developers is only rising with time Hands On System Programming with Linux gives you a solid theoretical base and practical industry relevant descriptions and covers the Linux system programming domain It delves into the art and science of Linux application programming system architecture process memory and management signaling timers pthreads and file IO This book goes beyond the use API X to do Y approach it explains the concepts and theories required to understand programming interfaces and design decisions the tradeoffs made by experienced developers when using them and the rationale behind them Troubleshooting tips and techniques are included in the concluding chapter By the end of this book you will have gained essential conceptual design knowledge and hands on experience working with Linux system programming interfaces What you will learnExplore the theoretical underpinnings of Linux system architectureUnderstand why modern OSes use virtual memory and dynamic memory APIsGet to grips with dynamic memory issues and effectively debug themLearn key concepts and powerful system APIs related to process managementEffectively perform file IO and use signaling and timersDeeply understand multithreading concepts pthreads APIs synchronization and schedulingWho this book is for Hands On System Programming with Linux is for Linux system engineers programmers or anyone who wants to go beyond using an API set to understanding the theoretical underpinnings and concepts behind powerful Linux system programming APIs To get the most out of this book you should be familiar with Linux at the user level logging in using shell via the command line interface the ability to use tools such as find grep and sort Working knowledge of the C programming language is required No prior experience with Linux systems programming is assumed **The Linux Kernel Book** Rémy Card,Éric Dumas,Franck Mével,1998-07-09

Summary The Linux Kernel Book allows you to delve into the heart of this operating system by means of an in depth treatment of the internal functioning of the kernel Each chapter deals in detail with the system components including process management memory management IPC Systems V signals pipes POSIX tty file systems loadable modules and administration

The Linux Kernel Book Rémy Card,1998 **Linux Kernel Programming** Kaiwan N Billimoria,2021-03-19 Learn how to write high quality kernel module code solve common Linux kernel programming issues and understand the fundamentals

of Linux kernel internals Key Features Discover how to write kernel code using the Loadable Kernel Module framework Explore industry grade techniques to perform efficient memory allocation and data synchronization within the kernel Understand the essentials of key internals topics such as kernel architecture memory management CPU scheduling and kernel synchronization Book Description Linux Kernel Programming is a comprehensive introduction for those new to Linux kernel and module development This easy to follow guide will have you up and running with writing kernel code in next to no time This book uses the latest 5.4 Long Term Support LTS Linux kernel which will be maintained from November 2019 through to December 2025 By working with the 5.4 LTS kernel throughout the book you can be confident that your knowledge will continue to be valid for years to come This Linux book begins by showing you how to build the kernel from the source Next you ll learn how to write your first kernel module using the powerful Loadable Kernel Module LKM framework The book then covers key kernel internals topics including Linux kernel architecture memory management and CPU scheduling Next you ll delve into the fairly complex topic of concurrency within the kernel understand the issues it can cause and learn how they can be addressed with various locking technologies mutexes spinlocks atomic and refcount operators You ll also benefit from more advanced material on cache effects a primer on lock free techniques within the kernel deadlock avoidance with lockdep and kernel lock debugging techniques By the end of this kernel book you ll have a detailed understanding of the fundamentals of writing Linux kernel module code for real world projects and products What You Will Learn Write high quality modular kernel code LKM framework for 5.x kernels Configure and build a kernel from source Explore the Linux kernel architecture Get to grips with key internals regarding memory management within the kernel Understand and work with various dynamic kernel memory alloc dealloc APIs Discover key internals aspects regarding CPU scheduling within the kernel Gain an understanding of kernel concurrency issues Find out how to work with key kernel synchronization primitives Who this book is for This book is for Linux programmers beginning to find their way with Linux kernel development Linux kernel and driver developers looking to overcome frequent and common kernel development issues as well as understand kernel internals will benefit from this book A basic understanding of Linux CLI and C programming is required **Linux Kernel** Daniel Pierre Bovet,Marco Cesati,2001

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