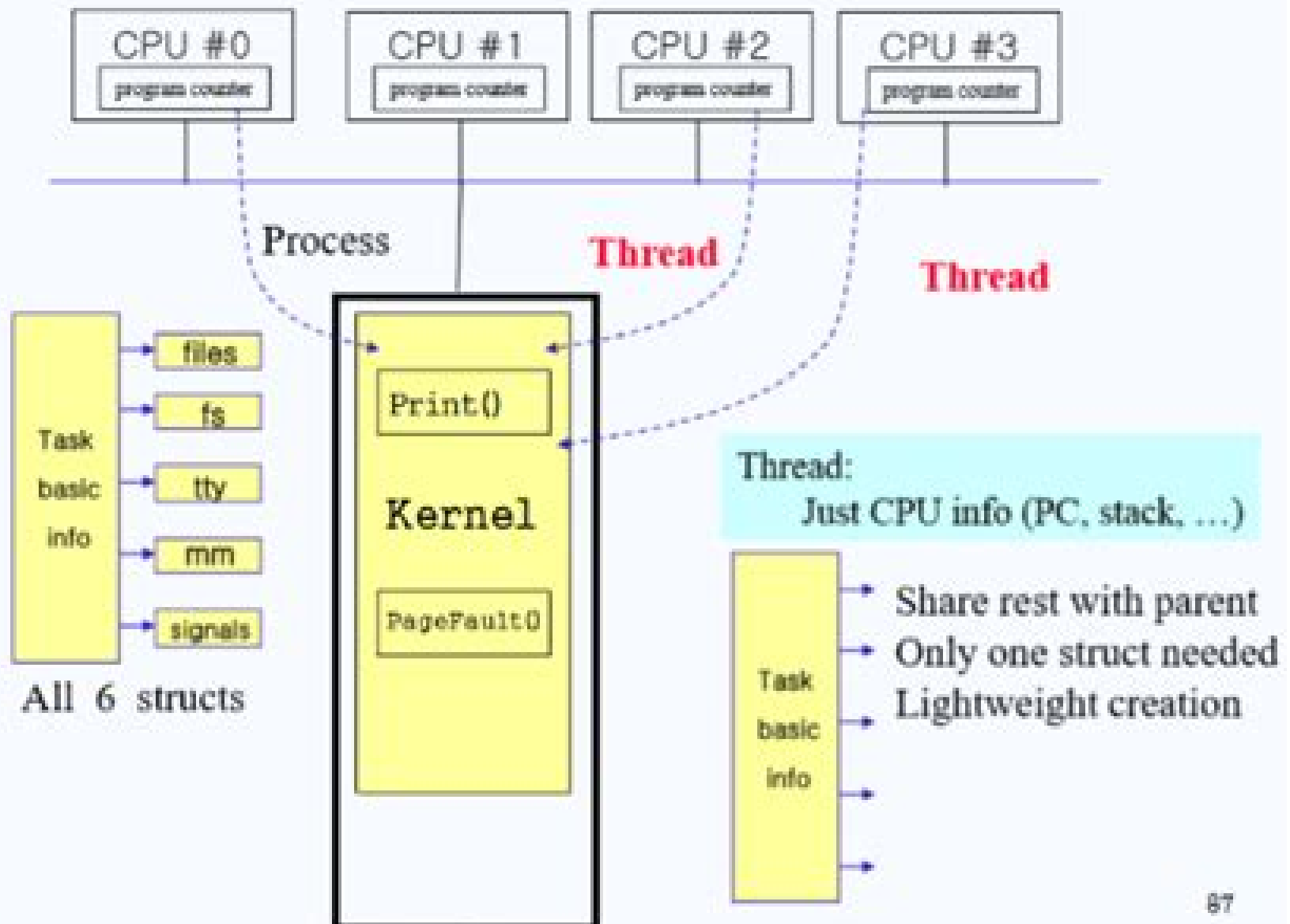


Kernel Thread



Understanding The Linux Kernel From Io Ports To Process Management

Marek Krajewski



Understanding The Linux Kernel From Io Ports To Process Management:

Understanding the Linux Kernel Daniel P. Bovet, Marco Cesati, 2005-11-17 In order to thoroughly understand what makes Linux tick and why it works so well on a wide variety of systems you need to delve deep into the heart of the kernel. The kernel handles all interactions between the CPU and the external world and determines which programs will share processor time in what order. It manages limited memory so well that hundreds of processes can share the system efficiently and expertly organizes data transfers so that the CPU isn't kept waiting any longer than necessary for the relatively slow disks. The third edition of *Understanding the Linux Kernel* takes you on a guided tour of the most significant data structures, algorithms, and programming tricks used in the kernel. Probing beyond superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Important Intel-specific features are discussed. Relevant segments of code are dissected line by line. But the book covers more than just the functioning of the code; it explains the theoretical underpinnings of why Linux does things the way it does. This edition of the book covers Version 2.6, which has seen significant changes to nearly every kernel subsystem, particularly in the areas of memory management and block devices. The book focuses on the following topics: Memory management including file buffering, process swapping, and Direct memory Access (DMA). The Virtual Filesystem layer and the Second and Third Extended Filesystems. Process creation and scheduling. Signals, interrupts, and the essential interfaces to device drivers. Timing. Synchronization within the kernel. Interprocess Communication (IPC). Program execution. *Understanding the Linux Kernel* will acquaint you with all the inner workings of Linux, but it's 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. This book will help you make the most of your Linux system.

Understanding the Linux Kernel Daniel Pierre Bovet, Marco Cesati, 2002 To thoroughly understand what makes Linux tick and why it's 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's 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 will learn what conditions bring out Linux's best performance and you will 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.

Software Technology: Methods and Tools Manuel Mazzara, Jean-Michel Bruel, Bertrand Meyer, Alexander Petrenko, 2019-10-08. This book constitutes the refereed proceedings of the 51st International Conference on Software Technology Methods and Tools, TOOLS 2019, held in Innopolis, Russia, in October 2019. The 19 revised full papers and 13 short papers presented in this book were carefully reviewed and selected from 62 submissions. The papers discuss all aspects of software engineering and programming languages, machine learning, internet of things, security, computer architectures and robotics and projects.

Applied Cryptography and Network Security Markus Jakobsson, Moti Yung, Jianying Zhou, 2004-05-17. The second International Conference on Applied Cryptography and Network Security, ACNS 2004, was sponsored and organized by ICISA, the International Communications and Information Security Association. It was held in Yellow Mountain, China, June 8-11, 2004. The conference proceedings representing papers from the academic track are published in this volume of the Lecture Notes in Computer Science (LNCS) of Springer Verlag. The area of research that ACNS covers has been gaining importance in recent years due to the development of the Internet, which in turn implies global exposure of computing resources. Many fields of research were covered by the program of this track presented in this proceedings volume. We feel that the papers herein indeed reflect the state of the art in security and cryptography research worldwide. The program committee of the conference received a total of 297 submissions from all over the world, of which 36 submissions were selected for presentation during the academic track. In addition to this track, the conference also hosted a technical/industrial track of presentations that were carefully selected as well. All submissions were reviewed by experts in the relevant areas.

Internet of Vehicles. Technologies and Services for Smart Cities Sheng-Lung Peng, Guan-Ling Lee, Reinhard Klette, Ching-Hsien Hsu, 2017-11-20. This book constitutes the proceedings of the 4th International Conference on Internet of Vehicles, IOV 2017, held in Kanazawa, Japan, in November 2017. The 19 papers presented in this volume were carefully reviewed and selected from 40 submissions. They deal with advances in the state of the art and practice of the IoV architectures, protocols, services and applications, as well as identifying emerging research topics and define the future directions of Internet of Vehicles.

UNIX Systems Programming Kay A. Robbins, Steven Robbins, 2003. *Learn UNIX*

essentials with a concentration on communication concurrency and multithreading techniques Full of ideas on how to design and implement good software along with unique projects throughout Excellent companion to Stevens Advanced UNIX System Programming

Secure Cloud Computing Sushil Jajodia, Krishna Kant, Pierangela Samarati, Anoop Singhal, Vipin Swarup, Cliff Wang, 2014-01-23 This book presents a range of cloud computing security challenges and promising solution paths The first two chapters focus on practical considerations of cloud computing In Chapter 1 Chandramouli Iorga and Chokani describe the evolution of cloud computing and the current state of practice followed by the challenges of cryptographic key management in the cloud In Chapter 2 Chen and Sion present a dollar cost model of cloud computing and explore the economic viability of cloud computing with and without security mechanisms involving cryptographic mechanisms The next two chapters address security issues of the cloud infrastructure In Chapter 3 Szefer and Lee describe a hardware enhanced security architecture that protects the confidentiality and integrity of a virtual machine's memory from an untrusted or malicious hypervisor In Chapter 4 Tsugawa et al discuss the security issues introduced when Software Defined Networking SDN is deployed within and across clouds Chapters 5-9 focus on the protection of data stored in the cloud In Chapter 5 Wang et al present two storage isolation schemes that enable cloud users with high security requirements to verify that their disk storage is isolated from some or all other users without any cooperation from cloud service providers In Chapter 6 De Capitani di Vimercati Foresti and Samarati describe emerging approaches for protecting data stored externally and for enforcing fine grained and selective accesses on them and illustrate how the combination of these approaches can introduce new privacy risks In Chapter 7 Le Kant and Jajodia explore data access challenges in collaborative enterprise computing environments where multiple parties formulate their own authorization rules and discuss the problems of rule consistency enforcement and dynamic updates In Chapter 8 Smith et al address key challenges to the practical realization of a system that supports query execution over remote encrypted data without exposing decryption keys or plaintext at the server In Chapter 9 Sun et al provide an overview of secure search techniques over encrypted data and then elaborate on a scheme that can achieve privacy preserving multi keyword text search The next three chapters focus on the secure deployment of computations to the cloud In Chapter 10 Oktay et al present a risk based approach for workload partitioning in hybrid clouds that selectively outsources data and computation based on their level of sensitivity The chapter also describes a vulnerability assessment framework for cloud computing environments In Chapter 11 Albanese et al present a solution for deploying a mission in the cloud while minimizing the mission's exposure to known vulnerabilities and a cost effective approach to harden the computational resources selected to support the mission In Chapter 12 Kontaxis et al describe a system that generates computational decoys to introduce uncertainty and deceive adversaries as to which data and computation is legitimate The last section of the book addresses issues related to security monitoring and system resilience In Chapter 13 Zhou presents a secure provenance based capability that captures dependencies between system

states tracks state changes over time and that answers attribution questions about the existence or change of a system's state at a given time In Chapter 14 Wu et al present a monitoring capability for multicore architectures that runs monitoring threads concurrently with user or kernel code to constantly check for security violations Finally in Chapter 15 Hasan Cam describes how to manage the risk and resilience of cyber physical systems by employing controllability and observability techniques for linear and non linear systems

Designing Security Architecture Solutions Jay

Ramachandran,2002-10-01 The first guide to tackle security architecture at the softwareengineering level Computer security has become a critical business concern and assumuch the responsibility of all IT professionals In thisgroundbreaking book a security expert with AT T Business srenowned Network Services organization explores system securityarchitecture from a software engineering perspective He explainswhy strong security must be a guiding principle of the developmentprocess and identifies a common set of features found in mostsecurity products explaining how they can and should impact

thedevelopment cycle The book also offers in depth discussions ofsecurity technologies cryptography database security applicationand operating system security and more

Dynamic Memory Management for Embedded Systems David Atienza

Alonso,Stylianos Mamagkakis,Christophe Poucet,Miguel Peón-Quirós,Alexandros Bartzas,Francky Catthoor,Dimitrios Soudris,2014-09-19 This book provides a systematic and unified methodology including basic principles and reusable processes for dynamic memory management DMM in embedded systems The authors describe in detail how to design and optimize the use of dynamic memory in modern multimedia and network applications targeting the latest generation of portable embedded systems such as smartphones Coverage includes a variety of design and optimization topics in electronic design automation of DMM from high level software optimization to microarchitecture level hardware support The authors describe the design of multi layer dynamic data structures for the final memory hierarchy layers of the target portable embedded systems and how to create a low fragmentation cost efficient dynamic memory management subsystem out of configurable components for the particular memory allocation and de allocation patterns for each type of application The design methodology described in this book is based on propagating constraints among design decisions from multiple abstraction levels both hardware and software and customizing DMM according to application specific data access and storage behaviors

UNIX: The Complete Reference, Second Edition Kenneth Rosen,Douglas Host,Rachel Klee,Richard

Rosinski,2006-12-19 The Definitive UNIX Resource Fully Updated Get cutting edge coverage of the newest releases of UNIX including Solaris 10 all Linux distributions HP UX AIX and FreeBSD from this thoroughly revised one stop resource for users at all experience levels Written by UNIX experts with many years of experience starting with Bell Laboratories UNIX The Complete Reference Second Edition provides step by step instructions on how to use UNIX and take advantage of its powerful tools and utilities Get up and running on UNIX quickly use the command shell and desktop and access the Internet and e mail You ll also learn to administer systems and networks develop applications and secure your UNIX environment Up

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CompTIA Linux+ (Plus) Certification Jake T Mills, 2024-02-02 In the dynamic landscape of technology familiarity with Linux has become increasingly indispensable Our book offers a comprehensive exploration of the Linux operating system tailored for both beginners and seasoned users seeking to deepen their understanding and refine their skills With a blend of theoretical knowledge and practical applications this book serves as a valuable resource for anyone looking to navigate the complexities of Linux effectively The journey begins with an introduction to the fundamental concepts of Linux including its origins architecture and core components Readers are guided through the intricacies of the Linux file system hierarchy learning essential commands for navigating directories managing files and executing tasks efficiently With a focus on practicality each chapter is supplemented with practice questions and answers designed to reinforce learning and foster a hands on approach to mastering Linux As readers progress they delve into advanced topics such as user and group management permissions and networking Through detailed explanations and real world examples readers gain insights into administering Linux systems configuring network settings and troubleshooting common issues The comprehensive coverage of Linux shell scripting equips readers with the skills to automate tasks streamline workflows and enhance productivity in their day to day operations The book also explores the intricacies of managing software applications in Linux providing insights into package management tools software repositories and dependency resolution mechanisms Readers learn how to install update and remove software packages ensuring the seamless integration of new applications into their Linux environment Furthermore the book delves into the nuances of Linux booting processes covering boot loaders runlevels kernel parameters and system initialization By understanding the intricacies of the boot process readers gain the ability to troubleshoot boot related issues customize boot configurations and optimize system startup performance Throughout the journey emphasis is placed on practical application and real world scenarios Readers are encouraged to experiment with Linux commands explore system configurations and tackle challenging tasks to solidify their understanding and build confidence in their abilities In addition to serving as a comprehensive learning resource this book is designed to prepare readers for certification exams such as CompTIA Linux providing a structured pathway to validation of their Linux proficiency With its clear explanations practical examples and interactive exercises this book empowers readers to embark

on their Linux journey with confidence and competence Whether you are a novice seeking to embark on your Linux journey or an experienced user aiming to refine your skills this book offers a wealth of knowledge and insights to support your endeavors With its accessible approach and comprehensive coverage it serves as an indispensable companion for anyone looking to harness the power of Linux in today's technology driven world

UNIX: The Complete Reference, Second Edition Kenneth H. Rosen, Douglas A. Host, Rachel Klee, Richard R. Rosinski, 2007-01-09 The Definitive UNIX Resource Fully Updated Get cutting edge coverage of the newest releases of UNIX including Solaris 10 all Linux distributions HP UX AIX and FreeBSD from this thoroughly revised one stop resource for users at all experience levels Written by UNIX experts with many years of experience starting with Bell Laboratories UNIX The Complete Reference Second Edition provides step by step instructions on how to use UNIX and take advantage of its powerful tools and utilities Get up and running on UNIX quickly use the command shell and desktop and access the Internet and e mail You'll also learn to administer systems and networks develop applications and secure your UNIX environment Up to date chapters on UNIX desktops Samba Python Java Apache and UNIX Web development are included Install configure and maintain UNIX on your PC or workstation Work with files directories commands and the UNIX shell Create and modify text files using powerful text editors Use UNIX desktops including GNOME CDE and KDE as an end user or system administrator Use and manage e mail TCP/IP networking and Internet services Protect and maintain the security of your UNIX system and network Share devices printers and files between Windows and UNIX systems Use powerful UNIX tools including awk sed and grep Develop your own shell Python and Perl scripts and Java C and C++ programs under UNIX Set up Apache Web servers and develop browser independent Web sites and applications

Advanced Linux Kernel Engineering: In-Depth Insights into OS Internals Adam Jones, 2025-01-09 Unlock the secrets of the Linux kernel with Advanced Linux Kernel Engineering In Depth Insights into OS Internals a comprehensive guide tailored for professionals developers and students eager to enhance their understanding of one of the most robust and widely used operating systems in the tech world This book meticulously demystifies the complex structure and functioning of the Linux kernel covering core concepts such as process management memory management and device drivers among others Advanced Linux Kernel Engineering not only explores theoretical underpinnings but also provides practical insights and step by step guidance on real world applications Each chapter is dedicated to a specific aspect of the kernel from its architecture to its security features offering readers a systematic approach to mastering Linux systems Whether you're looking to refine your technical skills contribute to the Linux community or implement advanced kernel operations in your projects this book is an indispensable resource Dive into kernel processes understand how data is managed and discover how to optimize the kernel for various environments with this authoritative text Embrace the opportunity to gain a deeper understanding of the Linux kernel and advance your capabilities in system design development and administration Advanced Linux Kernel Engineering is your gateway to becoming a proficient and knowledgeable

contributor to the Linux ecosystem **Conception des systèmes d'exploitation** Patrick Cegielski, 2011-07-07 Comprendre les systèmes d'exploitation au cœur de Linux Cet ouvrage s'adresse tous ceux qui au-delà de l'utilisation d'un système d'exploitation et de la programmation système veulent comprendre comment est conçu et implémenté le noyau du système Linux Il en explore le code source dans sa toute première version Linux 0.01 et commente ses évolutions vers les noyaux actuels L'ouvrage explique notamment l'utilisation des ressources du microprocesseur et les commandes des cartes périphériques et permet de comprendre comment aborder la conception de pilotes Deuxième édition mise à jour de Minix Linux 2.6 Dans cette deuxième édition mise à jour et augmentée l'auteur montre comment appliquer au noyau Linux 2.6 la méthode proposée pour étudier un noyau en soulignant que les concepts fondamentaux sous-jacents au micro noyau demeurent inchangés depuis le tout premier noyau de treize ans d'âge tandis que les structures associées évoluent pour tenir compte de nouvelles fonctionnalités qui s'adresse cet ouvrage Tous ingénieurs et développeurs système en particulier Unix Linux Développeurs C et autres langages de bas niveau étudiants en IUT informatique licences et maîtrises d'informatique écoles d'ingénieurs informatique théorique et électronique et leurs enseignants *Linux Kernel Programming Part 2 - Char Device Drivers and Kernel Synchronization* Kaiwan N Billimoria, 2021-03-19 Discover how to write high quality character driver code interface with userspace work with chip memory and gain an in depth understanding of working with hardware interrupts and kernel synchronization Key FeaturesDelve into hardware interrupt handling threaded IRQs tasklets softirqs and understand which to use whenExplore powerful techniques to perform user kernel interfacing peripheral I/O and use kernel mechanismsWork with key kernel synchronization primitives to solve kernel concurrency issuesBook Description Linux Kernel Programming Part 2 Char Device Drivers and Kernel Synchronization is an ideal companion guide to the Linux Kernel Programming book This book provides a comprehensive introduction for those new to Linux device driver development and will have you up and running with writing misc class character device driver code on the 5.4 LTS Linux kernel in next to no time You'll begin by learning how to write a simple and complete misc class character driver before interfacing your driver with user mode processes via procfs sysfs debugfs netlink sockets and ioctl You'll then find out how to work with hardware I/O memory The book covers working with hardware interrupts in depth and helps you understand interrupt request IRQ allocation threaded IRQ handlers tasklets and softirqs You'll also explore the practical usage of useful kernel mechanisms setting up delays timers kernel threads and workqueues Finally you'll discover how to deal with the complexity of kernel synchronization with locking technologies mutexes spinlocks and atomic refcount operators including more advanced topics such as cache effects a primer on lock free techniques deadlock avoidance with lockdep and kernel lock debugging techniques By the end of this Linux kernel book you'll have learned the fundamentals of writing Linux character device driver code for real world projects and products What you will learnGet to grips with the basics of the modern Linux Device Model LDM Write a simple yet complete misc class character device driverPerform user kernel interfacing using popular methodsUnderstand and handle

hardware interrupts confidently Perform I/O on peripheral hardware chip memory Explore kernel APIs to work with delays timers kthreads and workqueues Understand kernel concurrency issues Work with key kernel synchronization primitives and discover how to detect and avoid deadlock Who this book is for An understanding of the topics covered in the Linux Kernel Programming book is highly recommended to make the most of this book This book is for Linux programmers beginning to find their way with device driver development Linux device driver developers looking to overcome frequent and common kernel driver development issues as well as perform common driver tasks such as user kernel interfaces performing peripheral I/O handling hardware interrupts and dealing with concurrency will benefit from this book A basic understanding of Linux kernel internals and common APIs kernel module development and C programming is required **Linux** Jürgen Gulbins, Karl Obermayr, Snoopy, 2013-03-07 Dieses Hand und Arbeitsbuch stellt die Konzepte und Anwendungstechniken von Linux vor Viele Einzelheiten werden zusammenhängend und verständlich dargestellt Die Autoren beschreiben die häufig verwendeten Kommandos und Funktionen detailliert und erläutern sie an zahlreichen Beispielen Damit soll das Werk den Einstieg in Linux und den Umstieg auf Linux erleichtern und dem Benutzer und Administrator als kompaktes Nachschlagewerk bei der täglichen Arbeit am Linux Rechner dienen Es werden sowohl die alphanumerische Oberfläche als auch die grafischen Oberflächen KDE und GNOME behandelt Die Autoren verfügen über langjährige Erfahrungen aus der Praxis mit UNIX und Linux und gehen vor allem auf SuSE und Red Hat Linux ein Mastering Linux Administration Alexandru Calcatinge, Julian Balog, 2021-06-18 Develop advanced skills for working with Linux systems on premises and in the cloud Key Features Become proficient in everyday Linux administration tasks by mastering the Linux command line and using automation Work with the Linux filesystem packages users processes and daemons Deploy Linux to the cloud with AWS Azure and Kubernetes Book Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on premises and in the cloud This book covers the important topics you need to know about for your everyday Linux administration tasks The book starts by helping you understand the Linux command line and how to work with files packages and filesystems You'll then begin administering network services and hardening security and learn about cloud computing containers and orchestration Once you've learned how to work with the command line you'll explore the essential Linux commands for managing users processes and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers As you advance through the chapters you'll work with containers hypervisors virtual machines Ansible and Kubernetes You'll also learn how to deploy Linux to the cloud using AWS and Azure By the end of this Linux book you'll be well versed with Linux and have mastered everyday administrative tasks using workflows spanning from on premises to the cloud If you also find yourself adopting DevOps practices in the process we'll consider our mission accomplished What you will learn Understand how Linux works and learn basic to advanced Linux administration skills Explore the most widely used commands for managing the Linux

filesystem network security and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux AppArmor and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration this book is for you Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book

Hands-On High Performance Programming with Qt 5 Marek Krajewski,2019-01-31 Build efficient and fast Qt applications target performance problems and discover solutions to refine your code Key FeaturesBuild efficient and concurrent applications in Qt to create cross platform applicationsIdentify performance bottlenecks and apply the correct algorithm to improve application performanceDelve into parallel programming and memory management to optimize your codeBook Description Achieving efficient code through performance tuning is one of the key challenges faced by many programmers This book looks at Qt programming from a performance perspective You ll explore the performance problems encountered when using the Qt framework and means and ways to resolve them and optimize performance The book highlights performance improvements and new features released in Qt 5 9 Qt 5 11 and 5 12 LTE You ll master general computer performance best practices and tools which can help you identify the reasons behind low performance and the most common performance pitfalls experienced when using the Qt framework In the following chapters you ll explore multithreading and asynchronous programming with C and Qt and learn the importance and efficient use of data structures You ll also get the opportunity to work through techniques such as memory management and design guidelines which are essential to improve application performance Comprehensive sections that cover all these concepts will prepare you for gaining hands on experience of some of Qt s most exciting application fields the mobile and embedded development domains By the end of this book you ll be ready to build Qt applications that are more efficient concurrent and performance oriented in nature What you will learnUnderstand classic performance best practicesGet to grips with modern hardware architecture and its performance impactImplement tools and procedures used in performance optimizationGrasp Qt specific work techniques for graphical user interface GUI and platform programmingMake Transmission Control Protocol TCP and Hypertext Transfer Protocol HTTP performant and use the relevant Qt classesDiscover the improvements Qt 5 9 and the upcoming versions holds in storeExplore Qt s graphic engine architecture strengths and weaknessesWho this book is for This book is designed for Qt developers who wish to build highly performance applications for desktop and embedded devices Programming Experience with C is required

MasteringTM Red Hat® Enterprise Linux® 3 Michael Jang,2006-02-20 Your Complete Guide to the World s Leading Linux Enterprise Distribution Red Hat Enterprise Linux 3 is emerging as the corporate Linux standard One of the first books to focus on this robust product Mastering Red Hat Enterprise Linux 3 gives

you the practical information you need to install configure and network Linux on a large number of computers For experienced administrators this book uniquely features detailed coverage of Apache TUX Samba NFS vsFTP Squid SSH DNS DHCP iptables CUPS sendmail Postfix NIS LDAP MySQL system administration command line and GUI tools and utilities for each phase of the management process It also helps you configure the GUI for enterprise workstations Topics include Installing Linux on a standalone system over a network and automatically on multiple computers Navigating the command line interface Administering users and groups securely Managing packages with the RPM GUI tool Configuring and troubleshooting the boot process Upgrading and recompiling kernels Backing up your system with RAID Understanding basic TCP IP networking Managing Linux on your LAN Securing Linux firewalls Ensuring secure remote access Installing configuring and testing DNS DHCP CUPS sendmail and Postfix mail servers Configuring and troubleshooting FTP NFS Samba Apache TUX and Squid Effectively using Linux authentication services NIS and LDAP Using Red Hat GUI administrative tools appropriately Setting up MySQL for databases Managing X servers and X clients Working with GNOME and KDE

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Understanding The Linux Kernel From Io Ports To Process Management Introduction

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