Robert Love

Third Edition

Linux Kernel Development

A thorough guide to the design and
implementation of the Linux kernel

Developer's Library

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Frank Vasquez,Chris Simmonds

Robert Love Linux Kernel Development 3rd Edition:

Linux Kernel Development Robert Love,2010-06-22 Linux Kernel Development details the design and implementation of the Linux kernel presenting the content in a manner that is beneficial to those writing and developing kernel code as well as to programmers seeking to better understand the operating system and become more efficient and productive in their coding The book details the major subsystems and features of the Linux kernel including its design implementation and interfaces It covers the Linux kernel with both a practical and theoretical eye which should appeal to readers with a variety of interests and needs The author a core kernel developer shares valuable knowledge and experience on the 2 6 Linux kernel Specific topics covered include process management scheduling time management and timers the system call interface memory addressing memory management the page cache the VFS kernel synchronization portability concerns and debugging techniques This book covers the most interesting features of the Linux 2 6 kernel including the CFS scheduler preemptive kernel block I O layer and I O schedulers The third edition of Linux Kernel Development includes new and updated material throughout the book An all new chapter on kernel data structures Details on interrupt handlers and bottom halves Extended coverage of virtual memory and memory allocation Tips on debugging the Linux kernel In depth coverage of kernel synchronization and locking Useful insight into submitting kernel patches and working with the Linux kernel community

Linux Kernel Development Robert Love,2010 This practical guide helps programmers better understand the Linux kernel and to write and develop kernel code It provides in depth coverage of all the major subsystems and features of the Linux 2 6 kernel Mastering Embedded Linux Development Frank Vasquez,Chris Simmonds,2025-05-27 Written by Frank Vasquez an embedded Linux expert this new edition enables you to harness the full potential of Linux to create versatile and robust embedded solutions All formats include a free PDF and an invitation to the Embedded System Professionals community Key Features Learn how to develop and configure reliable embedded Linux devices Discover the latest enhancements in Linux 6 6 and the Yocto Project 5 0 codename Scarthgap Explore different ways to debug and profile your code in both user space and the Linux kernel Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionMastering Embedded Linux Development is designed to be both a learning resource and a reference for your embedded Linux projects In this fourth edition you ll learn the fundamental elements that underpin all embedded Linux projects the toolchain the bootloader the kernel and the root filesystem First you will download and install a pre built toolchain After that you will cross compile each of the remaining three elements from scratch and learn to automate the process using Buildroot and the Yocto Project The book progresses with coverage of over the air software updates and rapid prototyping with add on boards Two new chapters tackle modern development practices including Python packaging and deploying containerized applications These are followed by a chapter on writing multithreaded code and another on techniques to manage memory efficiently The final chapters demonstrate how to debug your code whether it resides in user

space or in the Linux kernel itself In addition to GNU debugger GDB the book also covers the different tracers and profilers that are available for Linux so that you can quickly pinpoint any performance bottlenecks in your system By the end of this book you will be able to create efficient and secure embedded devices with Linux that will delight your users What you will learn Cross compile embedded Linux images with Buildroot and Yocto Enable Wi Fi and Bluetooth connectivity with a Yocto board support package Update IoT devices securely in the field with Mender or balena Prototype peripheral additions by connecting add on boards reading schematics and coding test programs Deploy containerized software applications on edge devices with Docker Debug devices remotely using GDB and measure the performance of systems using tools like perf and ply Who this book is for If you are a systems software engineer or system administrator who wants to learn how to apply Linux to embedded devices then this book is for you The book is also for embedded software engineers accustomed to programming low power microcontrollers and will help them make the leap to a high speed system on chips that can run Linux Anyone who develops hardware for Linux will find something useful in this book But before you get started you will need a solid grasp of the POSIX standard C programming and shell scripting **Mastering Modern Linux** Paul S. Wang,2018-06-14 Praise for the First Edition This outstanding book gives the reader robust concepts and implementable knowledge of this environment Graphical user interface GUI based users and developers do not get short shrift despite the command line interface s CLI full power treatment Every programmer should read the introduction s Unix Linux philosophy section This authoritative and exceptionally well constructed book has my highest recommendation It will repay careful and recursive study Computing Reviews August 2011 Mastering Modern Linux Second Edition retains much of the good material from the previous edition with extensive updates and new topics added The book provides a comprehensive and up to date guide to Linux concepts usage and programming The text helps the reader master Linux with a well selected set of topics and encourages hands on practice The first part of the textbook covers interactive use of Linux via the Graphical User Interface GUI and the Command Line Interface CLI including comprehensive treatment of the Gnome desktop and the Bash Shell Using different apps commands and filters building pipelines and matching patterns with regular expressions are major focuses Next comes Bash scripting file system structure organization and usage The following chapters present networking the Internet and the Web data encryption basic system admin as well as Web hosting The Linux Apache MySQL MariaDB PHP LAMP Web hosting combination is also presented in depth In the last part of the book attention is turned to C level programming Topics covered include the C compiler preprocessor debugger I O file manipulation process control inter process communication and networking The book includes many examples and complete programs ready to download and run A summary and exercises of varying degrees of difficulty can be found at the end of each chapter A companion website http mml sofpower com provides appendices information updates an example code package and other resources for instructors as well as students *Linux: Embedded Development* Alexandru Vaduva,Alex Gonzalez,Chris

Simmonds,2016-09-27 Leverage the power of Linux to develop captivating and powerful embedded Linux projects About This Book Explore the best practices for all embedded product development stages Learn about the compelling features offered by the Yocto Project such as customization virtualization and many more Minimize project costs by using open source tools and programs Who This Book Is For If you are a developer who wants to build embedded systems using Linux this book is for you It is the ideal guide for you if you want to become proficient and broaden your knowledge A basic understanding of C programming and experience with systems programming is needed Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence What You Will Learn Use the Yocto Project in the embedded Linux development process Get familiar with and customize the bootloader for a board Discover more about real time layer security virtualization CGL and LSB See development workflows for the U Boot and the Linux kernel including debugging and optimization Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs Optimize your production systems by reducing the size of both the Linux kernel and root filesystems Understand device trees and make changes to accommodate new hardware on your device Design and write multi threaded applications using POSIX threads Measure real time latencies and tune the Linux kernel to minimize them In Detail Embedded Linux is a complete Linux distribution employed to operate embedded devices such as smartphones tablets PDAs set top boxes and many more An example of an embedded Linux distribution is Android developed by Google This learning path starts with the module Learning Embedded Linux Using the Yocto Project It introduces embedded Linux software and hardware architecture and presents information about the bootloader You will go through Linux kernel features and source code and get an overview of the Yocto Project components available The next module Embedded Linux Projects Using Yocto Project Cookbook takes you through the installation of a professional embedded Yocto setup then advises you on best practices Finally it explains how to quickly get hands on with the Freescale ARM ecosystem and community layer using the affordable and open source Wandboard embedded board Moving ahead the final module Mastering Embedded Linux Programming takes you through the product cycle and gives you an in depth description of the components and options that are available at each stage You will see how functions are split between processes and the usage of POSIX threads By the end of this learning path your capabilities will be enhanced to create robust and versatile embedded projects This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning Embedded Linux Using the Yocto Project by Alexandru Vaduva Embedded Linux Projects Using Yocto Project Cookbook by Alex Gonzalez Mastering Embedded Linux Programming by Chris Simmonds Style and approach This comprehensive step by step pragmatic guide enables you to build custom versions of Linux for new embedded systems with examples that are immediately applicable to your embedded developments Practical examples provide an easy to follow way to learn Yocto project development using the best practices and working methodologies Coupled with hints and

best practices this will help you understand embedded Linux better   *Mastering Embedded Linux Programming* Chris Simmonds,2017-06-30 Learn to confidently develop debug and deploy robust embedded Linux systems with hands on examples using BeagleBone and QEMU Key Features Step by step guide from toolchain setup to real time programming with hands on implementation Practical insights on kernel configuration device drivers and memory management Covers hardware integration using BeagleBone Black and virtual environments via QEMU Book DescriptionEmbedded Linux runs many of the devices we use every day from smart TVs to WiFi routers test equipment to industrial controllers all of them have Linux at their heart Linux is a core technology in the implementation of the inter connected world of the Internet of Things You will begin by learning about the fundamental elements that underpin all embedded Linux projects the toolchain the bootloader the kernel and the root filesystem You ll see how to create each of these elements from scratch and how to automate the process using Buildroot and the Yocto Project Moving on you ll find out how to implement an effective storage strategy for flash memory chips and how to install updates to the device remotely once it is deployed You ll also get to know the key aspects of writing code for embedded Linux such as how to access hardware from applications the implications of writing multi threaded code and techniques to manage memory in an efficient way The final chapters show you how to debug your code both in applications and in the Linux kernel and how to profile the system so that you can look out for performance bottlenecks By the end of the book you will have a complete overview of the steps required to create a successful embedded Linux system What you will learn Evaluate the Board Support Packages offered by most manufacturers of a system on chip or embedded module Use Buildroot and the Yocto Project to create embedded Linux systems quickly and efficiently Update IoT devices in the field without compromising security Reduce the power budget of devices to make batteries last longer Interact with the hardware without having to write kernel device drivers Debug devices remotely using GDB and see how to measure the performance of the systems using powerful tools such as perk ftrace and valgrind Who this book is for This book is for embedded engineers Linux developers and computer science students looking to build real world embedded systems It suits readers who are familiar with basic Linux use and want to deepen their skills in kernel configuration debugging and device integration   **Mastering Embedded Linux Programming** Frank Vasquez,Chris Simmonds,2021-05-14 Build customize and deploy Linux based embedded systems with confidence using Yocto bootloaders and build tools Key Features Master build systems toolchains and kernel integration for embedded Linux Set up custom Linux distros with Yocto and manage board specific configurations Learn real world debugging memory handling and system performance tuning Book DescriptionIf you re looking for a book that will demystify embedded Linux then you ve come to the right place Mastering Embedded Linux Programming is a fully comprehensive guide that can serve both as means to learn new things or as a handy reference The first few chapters of this book will break down the fundamental elements that underpin all embedded Linux projects the toolchain the bootloader the kernel and the root filesystem After that you will learn how to create each of these

elements from scratch and automate the process using Buildroot and the Yocto Project As you progress the book will show you how to implement an effective storage strategy for flash memory chips and install updates to a device remotely once it s deployed You ll also learn about the key aspects of writing code for embedded Linux such as how to access hardware from apps the implications of writing multi threaded code and techniques to manage memory in an efficient way The final chapters demonstrate how to debug your code whether it resides in apps or in the Linux kernel itself You ll also cover the different tracers and profilers that are available for Linux so that you can quickly pinpoint any performance bottlenecks in your system By the end of this Linux book you ll be able to create efficient and secure embedded devices using Linux What you will learn Use Buildroot and the Yocto Project to create embedded Linux systems Troubleshoot BitBake build failures and streamline your Yocto development workflow Update IoT devices securely in the field using Mender or balena Prototype peripheral additions by reading schematics modifying device trees soldering breakout boards and probing pins with a logic analyzer Interact with hardware without having to write kernel device drivers Divide your system up into services supervised by BusyBox runit Debug devices remotely using GDB and measure the performance of systems using tools such as perf ftrace eBPF and Callgrind Who this book is for If you re a systems software engineer or system administrator who wants to learn how to implement Linux on embedded devices then this book is for you It s also aimed at embedded systems engineers accustomed to programming for low power microcontrollers who can use this book to help make the leap to high speed systems on chips that can run Linux Anyone who develops hardware that needs to run Linux will find something useful in this book but before you get started you ll need a solid grasp on POSIX standard C programming and shell scripting **Linux System Programming** Robert Love,2007-09-18 This book is about writing software that makes the most effective use of the system you re running on code that interfaces directly with the kernel and core system libraries including the shell text editor compiler debugger core utilities and system daemons The majority of both Unix and Linux code is still written at the system level and Linux System Programming focuses on everything above the kernel where applications such as Apache bash cp vim Emacs gcc gdb glibc ls mv and X exist Written primarily for engineers looking to program better at the low level this book is an ideal teaching tool for any programmer Even with the trend toward high level development either through web software such as PHP or managed code C someone still has to write the PHP interpreter and the C virtual machine Linux System Programming gives you an understanding of core internals that makes for better code no matter where it appears in the stack Debugging high level code often requires you to understand the system calls and kernel behavior of your operating system too Key topics include An overview of Linux the kernel the C library and the C compiler Reading from and writing to files along with other basic file I O operations including how the Linux kernel implements and manages file I O Buffer size management including the Standard I O library Advanced I O interfaces memory mappings and optimization techniques The family of system calls for basic process management Advanced process management including real time processes File and

directories creating moving copying deleting and managing them Memory management interfaces for allocating memory managing the memory youhave and optimizing your memory access Signals and their role on a Unix system plus basic and advanced signal interfaces Time sleeping and clock management starting with the basics and continuing through POSIX clocks and high resolution timers With Linux System Programming you will be able to take an in depth look at Linux from both a theoretical and an applied perspective as you cover a wide range of programming topics **Embedded Linux Primer** Christopher Hallinan,2010-10-26 Up to the Minute Complete Guidance for Developing Embedded Solutions with Linux Linux has emerged as today s 1 operating system for embedded products Christopher Hallinan s Embedded Linux Primer has proven itself as the definitive real world guide to building efficient high value embedded systems with Linux Now Hallinan has thoroughly updated this highly praised book for the newest Linux kernels capabilities tools and hardware support including advanced multicore processors Drawing on more than a decade of embedded Linux experience Hallinan helps you rapidly climb the learning curve whether you re moving from legacy environments or you re new to embedded programming Hallinan addresses today s most important development challenges and demonstrates how to solve the problems you re most likely to encounter You ll learn how to build a modern efficient embedded Linux development environment and then utilize it as productively as possible Hallinan offers up to date guidance on everything from kernel configuration and initialization to bootloaders device drivers to file systems and BusyBox utilities to real time configuration and system analysis This edition adds entirely new chapters on UDEV USB and open source build systems Tour the typical embedded system and development environment and understand its concepts and components Understand the Linux kernel and userspace initialization processes Preview bootloaders with specific emphasis on U Boot Configure the Memory Technology Devices MTD subsystem to interface with flash and other memory devices Make the most of BusyBox and latest open source development tools Learn from expanded and updated coverage of kernel debugging Build and analyze real time systems with Linux Learn to configure device files and driver loading with UDEV Walk through detailed coverage of the USB subsystem Introduces the latest open source embedded Linux build systems Reference appendices include U Boot and BusyBox commands **Embedded Android** Karim Yaghmour,2013-03-15 Embedded Android is for Developers wanting to create embedded systems based on Android and for those wanting to port Android to new hardware or creating a custom development environment Hackers and moders will also find this an indispensible guide to how Android works **Easy Linux Device Driver, Second Edition** Mahesh Sambhaji Jadhav,2014-03-13 Easy Linux Device Driver First Step Towards Device Driver Programming Easy Linux Device Driver book is an easy and friendly way of learning device driver programming Book contains all latest programs along with output screen screenshots Highlighting important sections and stepwise approach helps for quick understanding of programming Book contains Linux installation Hello world program up to USB 3 0 Display Driver PCI device driver programming concepts in stepwise approach Program gives best understanding of

theoretical and practical fundamentals of Linux device driver Beginners should start learning Linux device driver from this book to become device driver expertise Topics covered Introduction of Linux Advantages of Linux History of Linux Architecture of Linux Definations Ubuntu installation Ubuntu Installation Steps User Interface Difference About KNOPPIX Important links Terminal Soul of Linux Creating Root account Terminal Commands Virtual Editor Commands Linux Kernel Linux Kernel Internals Kernel Space and User space Device Driver Place of Driver in System Device Driver working Characteristics of Device Driver Module Commands Hello World Program pre settings Write Program Printk function Makefile Run program Parameter passing Parameter passing program Parameter Array Process related program Process related program Character Device Driver Major and Minor number API to registers a device Program to show device number Character Driver File Operations File operation program Include h header Functions in module h file Important code snippets Summary of file operations PCI Device Driver Direct Memory Access Module Device Table Code for Basic Device Driver Important code snippets USB Device Driver Fundamentals Architecture of USB device driver USB Device Driver program Structure of USB Device Driver Parts of USB end points Importent features USB information Driver USB device Driver File Operations Using URB Simple data transfer Program to read and write Important code snippets Gadget Driver Complete USB Device Driver Program Skeleton Driver Program Special USB 3 0 USB 3 0 Port connection Bulk endpoint streaming Stream ID Device Driver Lock Mutual Exclusion Semaphore Spin Lock Display Device Driver Frame buffer concept Framebuffer Data Structure Check and set Parameter Accelerated Method Display Driver summary Memory Allocation Kmalloc Vmalloc Ioremap Interrupt Handling interrupt registration Proc interface Path of interrupt Programming Tips Softirqs Tasklets Work Queues I O Control Introducing ioctl Prototype Stepwise execution of ioctl Sample Device Driver Complete memory Driver Complete Parallel Port Driver Device Driver Debugging Data Display Debugger Graphical Display Debugger Kernel Graphical Debugger Appendix I Exported Symbols Kobjects Ksets and Subsystems DMA I O *Ubuntu Unleashed 2015 Edition* Matthew Helmke,2014-11-17 Ubuntu Unleashed 2015 Edition is filled with unique and advanced information for everyone who wants to make the most of the Linux based Ubuntu operating system This new edition has been thoroughly revised and updated by a long time Ubuntu community leader to reflect the exciting new Ubuntu 14 10 while including tons of information that will continue to apply to future editions Former Ubuntu Forum administrator Matthew Helmke covers all you need to know about Ubuntu 14 10 installation configuration productivity multimedia development system administration server operations networking virtualization security DevOps and more including intermediate to advanced techniques you won t find in any other book Helmke presents up to the minute introductions to Ubuntu s key productivity and Web development tools programming languages hardware support and more You ll find new or improved coverage of Ubuntu s Unity interface various types of servers software repositories database options virtualization and cloud services development tools monitoring troubleshooting Ubuntu s push into mobile and other touch screen devices and much

more Detailed information on how to Configure and customize the Unity desktop Get started with multimedia and productivity applications including LibreOffice Manage Linux services users and software packages Administer and run Ubuntu from the command line Automate tasks and use shell scripting Provide secure remote access and configure a secure VPN Manage kernels and modules Administer file print email proxy LDAP DNS and HTTP servers Apache Nginx or alternatives Learn about new options for managing large numbers of servers Work with databases both SQL and the newest NoSQL alternatives Get started with virtualization Build a private cloud with Juju and Charms Learn the basics about popular programming languages including Python PHP Perl and new alternatives such as Go and Rust Learn about Ubuntu s work toward usability on touch screen and phone devices Ubuntu 14 10 on DVD DVD includes the full Ubuntu 14 10 distribution for 64 bit computers most desktop and notebooks systems today as well as the complete LibreOffice office suite and hundreds of additional programs and utilities Free Kick Start Chapter Purchase this book and receive a free Ubuntu 15 04 Kick Start chapter after Ubuntu 15 04 is released See inside back cover for details   **Unix in a Nutshell** Arnold Robbins,2005-10-26 As an open operating system Unix can be improved on by anyone and everyone individuals companies universities and more As a result the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions Today Unix encompasses everything from Sun s Solaris to Apple s Mac OS X and more varieties of Linux than you can easily name The latest edition of this bestselling reference brings Unix into the 21st century It s been reworked to keep current with the broader state of Unix in today s world and highlight the strengths of this operating system in all its various flavors Detailing all Unix commands and options the informative guide provides generous descriptions and examples that put those commands in context Here are some of the new features you ll find in Unix in a Nutshell Fourth Edition Solaris 10 the latest version of the SVR4 based operating system GNU Linux and Mac OS X Bash shell along with the 1988 and 1993 versions of ksh tsch shell instead of the original Berkeley csh Package management programs used for program installation on popular GNU Linux systems Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed certain commands that were once critical have fallen into disuse To that end the book has also dropped material that is no longer relevant keeping it taut and current If you re a Unix user or programmer you ll recognize the value of this complete up to date Unix reference With chapter overviews specific examples and detailed command   *Linux Administration Handbook* Evi Nemeth,Garth Snyder,Trent R. Hein,2006-10-30 As this book shows Linux systems are just as functional secure and reliable as their proprietary counterparts Thanks to the ongoing efforts of thousands of Linux developers Linux is more ready than ever for deployment at the frontlines of the real world The authors of this book know that terrain well and I am happy to leave you in their most capable hands Linus Torvalds The most successful sysadmin book of all time because it works Rik Farrow editor of login This book clearly explains current technology with the perspective of

decades of experience in large scale system administration Unique and highly recommended Jonathan Corbet cofounder LWN net Nemeth et al is the overall winner for Linux administration it s intelligent full of insights and looks at the implementation of concepts Peter Salus editorial director Matrix net Since 2001 Linux Administration Handbook has been the definitive resource for every Linux system administrator who must efficiently solve technical problems and maximize the reliability and performance of a production environment Now the authors have systematically updated this classic guide to address today s most important Linux distributions and most powerful new administrative tools The authors spell out detailed best practices for every facet of system administration including storage management network design and administration web hosting software configuration management performance analysis Windows interoperability and much more Sysadmins will especially appreciate the thorough and up to date discussions of such difficult topics such as DNS LDAP security and the management of IT service organizations Linux Administration Handbook Second Edition reflects the current versions of these leading distributions Red Hat Enterprise Linux FedoraTM Core SUSE Linux Enterprise Debian GNU Linux Ubuntu Linux Sharing their war stories and hard won insights the authors capture the behavior of Linux systems in the real world not just in ideal environments They explain complex tasks in detail and illustrate these tasks with examples drawn from their extensive hands on experience   *Linux Device Drivers* Jonathan Corbet,Alessandro Rubini,Greg Kroah-Hartman,2005-02-07 Device drivers literally drive everything you re interested in disks monitors keyboards modems everything outside the computer chip and memory And writing device drivers is one of the few areas of programming for the Linux operating system that calls for unique Linux specific knowledge For years now programmers have relied on the classic Linux Device Drivers from O Reilly to master this critical subject Now in its third edition this bestselling guide provides all the information you ll need to write drivers for a wide range of devices Over the years the book has helped countless programmers learn how to support computer peripherals under the Linux operating system how to develop and write software for new hardware under Linux the basics of Linux operation even if they are not expecting to write a driver The new edition of Linux Device Drivers is better than ever The book covers all the significant changes to Version 2 6 of the Linux kernel which simplifies many activities and contains subtle new features that can make a driver both more efficient and more flexible Readers will find new chapters on important types of drivers not covered previously such as consoles USB drivers and more Best of all you don t have to be a kernel hacker to understand and enjoy this book All you need is an understanding of the C programming language and some background in Unix system calls And for maximum ease of use the book uses full featured examples that you can compile and run without special hardware Today Linux holds fast as the most rapidly growing segment of the computer market and continues to win over enthusiastic adherents in many application areas With this increasing support Linux is now absolutely mainstream and viewed as a solid platform for embedded systems If you re writing device drivers you ll want this book In fact you ll wonder how drivers are ever written without it   **UNIX and Linux System Administration**

Handbook Evi Nemeth,Garth Snyder,Trent R. Hein,Ben Whaley,Dan Mackin,2017-09-14 As an author editor and publisher I never paid much attention to the competition except in a few cases This is one of those cases The UNIX System Administration Handbook is one of the few books we ever measured ourselves against Tim O Reilly founder of O Reilly Media This edition is for those whose systems live in the cloud or in virtualized data centers those whose administrative work largely takes the form of automation and configuration source code those who collaborate closely with developers network engineers compliance officers and all the other worker bees who inhabit the modern hive Paul Vixie Internet Hall of Fame recognized innovator and founder of ISC and Farsight Security This book is fun and functional as a desktop reference If you use UNIX and Linux systems you need this book in your short reach library It covers a bit of the systems history but doesn t bloviate It s just straight forward information delivered in a colorful and memorable fashion Jason A Nunnelley UNIX and Linux System Administration Handbook Fifth Edition is today s definitive guide to installing configuring and maintaining any UNIX or Linux system including systems that supply core Internet and cloud infrastructure Updated for new distributions and cloud environments this comprehensive guide covers best practices for every facet of system administration including storage management network design and administration security web hosting automation configuration management performance analysis virtualization DNS security and the management of IT service organizations The authors world class hands on technologists offer indispensable new coverage of cloud platforms the DevOps philosophy continuous deployment containerization monitoring and many other essential topics Whatever your role in running systems and networks built on UNIX or Linux this conversational well written guide will improve your efficiency and help solve your knottiest problems

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 Chaos Engineering Mikolaj Pawlikowski,2021-02-14 Chaos Engineering teaches you to design and execute controlled experiments that uncover hidden problems Summary Auto engineers test the safety of a car by intentionally crashing it and carefully observing the results Chaos engineering applies the same principles to software systems In Chaos Engineering Site reliability through controlled disruption you ll learn to run your applications and infrastructure through a series of tests that simulate real life failures You ll maximize the benefits of chaos engineering by learning to think like a chaos engineer and how to design the proper experiments to ensure the reliability of your software With examples that cover a whole spectrum of software you ll be ready to run an intensive testing regime on anything from a simple WordPress site to a massive distributed system running on Kubernetes Purchase of the

print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Can your network survive a devastating failure Could an accident bring your day to day operations to a halt Chaos engineering simulates infrastructure outages component crashes and other calamities to show how systems and staff respond Testing systems in distress is the best way to ensure their future resilience which is especially important for complex large scale applications with little room for downtime About the book Chaos Engineering teaches you to design and execute controlled experiments that uncover hidden problems Learn to inject system shaking failures that disrupt system calls networking APIs and Kubernetes based microservices infrastructures To help you practice the book includes a downloadable Linux VM image with a suite of preconfigured tools so you can experiment quickly without risk What s inside Inject failure into processes applications and virtual machines Test software running on Kubernetes Work with both open source and legacy software Simulate database connection latency Test and improve your team s failure response About the reader Assumes Linux servers Basic scripting skills required About the author Mikolaj Pawlikowski is a recognized authority on chaos engineering He is the creator of the Kubernetes chaos engineering tool PowerfulSeal and the networking visibility tool Goldpinger Table of Contents 1 Into the world of chaos engineering PART 1 CHAOS ENGINEERING FUNDAMENTALS 2 First cup of chaos and blast radius 3 Observability 4 Database trouble and testing in production PART 2 CHAOS ENGINEERING IN ACTION 5 Poking Docker 6 Who you gonna call Syscall busters 7 Injecting failure into the JVM 8 Application level fault injection 9 There s a monkey in my browser PART 3 CHAOS ENGINEERING IN KUBERNETES 10 Chaos in Kubernetes 11 Automating Kubernetes experiments 12 Under the hood of Kubernetes 13 Chaos engineering for people   **Linux System Programming** Robert M. Love, UNIX UNIX LINUX UNIX TCL TK Write software that makes the most effective use of the Linux system including the kernel and core system libraries The majority of both Unix and Linux code is still written at the system level and this book helps you focus on everything above the kernel where applications such as Apache bash cp vim Emacs gcc gdb glibc ls mv and X exist Written primarily for engineers looking to program at the low level this updated edition of Linux System Programming gives you an understanding of core internals that makes for better code no matter where it appears in the stack Provided by publisher   **Linux in a Nutshell** Ellen Siever,Stephen Figgins,Robert Love,Arnold Robbins,2009-09-19 Everything you need to know about Linux is in this book Written by Stephen Figgins Ellen Siever Robert Love and Arnold Robbins people with years of active participation in the Linux community Linux in a Nutshell Sixth Edition thoroughly covers programming tools system and network administration tools the shell editors and LILO and GRUB boot loaders This updated edition offers a tighter focus on Linux system essentials as well as more coverage of new capabilities such as virtualization wireless network management and revision control with git It also highlights the most important options for using the vast number of Linux commands You ll find many helpful new tips and techniques in this reference whether you re new to this operating system or have been using it for years Get the Linux commands for system

administration and network management Use hundreds of the most important shell commands available on Linux Understand the Bash shell command line interpreter Search and process text with regular expressions Manage your servers via virtualization with Xen and VMware Use the Emacs text editor and development environment as well as the vi ex and vim text manipulation tools Process text files with the sed editor and the gawk programming language Manage source code with Subversion and git

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