

Tegrak Kernel

Daniel Pierre Bovet,Marco Cesati

Linux Kernel in a Nutshell Greg Kroah-Hartman,2007-06-26 Presents an overview of kernel configuration and building for version 2.6 of the Linux kernel.

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.

Advanced Operating Systems and Kernel Applications: Techniques and Technologies Wiseman, Yair,Jiang, Song,2009-09-30 This book discusses non-distributed operating systems that benefit researchers, academicians, and practitioners--Provided by publisher.

Linux Kernel Programming Kaiwan N. Billimoria,2024-02-29 Gain both a firm practical understanding and sufficient theoretical insight into the inner workings of Linux kernel internals, learn to write high-quality kernel module code, understand the complexities of kernel synchronization Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Discover how to write Linux kernel and module code for real-world products Implement industry-grade techniques in real-world scenarios for fast, efficient memory allocation and data synchronization Understand and exploit kernel architecture, CPU scheduling, and kernel synchronization techniques Book DescriptionThe 2nd Edition of Linux Kernel Programming is an updated, comprehensive guide for new programmers to the Linux kernel. This book uses the recent 6.1 Long-Term Support (LTS) Linux kernel series, which will be maintained until Dec 2026, and also delves into its many new features. Further, the Civil Infrastructure Project has pledged to maintain and support this 6.1 Super LTS (SLTS) kernel right until August 2033, keeping this book valid for years to come! You'll begin this exciting journey by learning how to build the kernel from source. In a step by step manner, you will then learn how to write your first kernel module by leveraging the kernel's powerful Loadable Kernel Module (LKM) framework. With this foundation, you will delve into key kernel internals topics including Linux kernel architecture, memory management, and CPU (task) scheduling. You'll finish with understanding the deep issues of concurrency, and gain insight into how they can be addressed with various synchronization/locking technologies (e.g., mutexes, spinlocks, atomic/refcount operators, rw-spinlocks and even lock-free technologies such as per-CPU and RCU). By the end of this book, you'll have a much better understanding of the fundamentals of writing the Linux kernel and kernel module code that can straight away be used in real-world projects and products.What you will learn Configure and build the 6.1 LTS kernel from source Write high-quality modular kernel code (LKM framework) for 6.x kernels Explore modern Linux kernel architecture Get to grips with key internals details 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, including cgroups v2 Gain a deeper understanding of kernel concurrency issues Learn how to work with key kernel synchronization primitives Who this book is for This book is for beginner Linux programmers and developers looking to get started with the Linux kernel, providing a knowledge base to understand required kernel internal topics and overcome frequent and common development issues. A basic understanding of Linux CLI and C programming is assumed.

Mastering Linux Kernel Development Raghu Bharadwaj,2017-10-11 Explore Implementation of core kernel subsystems About This Book Master the design, components, and structures of core kernel subsystems Explore kernel programming interfaces and related algorithms under the hood Completely updated material for the 4.12.10 kernel Who This Book Is For If you are a kernel programmer with a knowledge of kernel APIs and are looking to build a comprehensive understanding, and eager to explore the implementation, of kernel subsystems, this book is for you. It sets out to unravel the underlying details of kernel APIs and data structures, piercing through the complex kernel layers and gives you the edge you need to take your skills to the next level. What You Will Learn Comprehend processes and fles—the core abstraction mechanisms of the Linux kernel that promote effective simplification and dynamism Decipher process scheduling and understand effective capacity utilization under general and real-time dispositions Simplify and learn more about process communication techniques through signals and IPC mechanisms Capture the rudiments of memory by grasping the key concepts and principles of physical and virtual memory management Take a sharp and precise look at all the key aspects of interrupt management and the clock subsystem Understand concurrent execution on SMP platforms through kernel synchronization and locking techniques In Detail Mastering Linux Kernel Development looks at the Linux kernel, its internal arrangement and design, and various core subsystems, helping you to gain significant understanding of this open source marvel. You will look at how the Linux kernel, which possesses a kind of collective intelligence thanks to its scores of contributors, remains so elegant owing to its great design. This book also looks at all the key kernel code, core data structures, functions, and macros, giving you a comprehensive foundation of the implementation details of the kernel's core services and mechanisms. You will also look at the Linux kernel as well-designed software, which gives us insights into software design in general that are easily scalable yet fundamentally strong and safe. By the end of this book, you will have considerable understanding of and appreciation for the Linux kernel. Style and approach Each chapter begins with the basic conceptual know-how for a subsystem and extends into the details of its implementation. We use appropriate code excerpts of critical routines and data structures for subsystems.

Linux Kernel Debugging Kaiwan N Billimoria,2022-08-05 Effectively debug kernel modules, device drivers, and the kernel itself by gaining a solid understanding of powerful open source tools and advanced kernel debugging techniques Key Features • Fully understand how to use a variety of kernel and module debugging tools and techniques using examples • Learn to expertly interpret a kernel Oops and identify underlying defect(s) • Use easy-to-look up tables and clear explanations of kernel-level defects to make this complex topic easy Book Description The Linux kernel is at the very core of arguably the world's best production-quality OS. Debugging it, though, can be a complex endeavor. Linux Kernel Debugging is a comprehensive guide to learning all about advanced kernel debugging. This book covers many areas in-depth, such as instrumentation-based debugging techniques (printk and the dynamic debug framework), and shows you how to use Kprobes. Memory-related bugs tend to be a nightmare – two chapters are packed with tools and techniques devoted to debugging them. When the kernel gifts you an Oops, how exactly do you interpret it to be able to debug the underlying issue? We've got you covered. Concurrency tends to be an inherently complex topic, so a chapter on lock debugging will help you to learn precisely what data races are, including using KCSAN to detect them. Some thorny issues, both debug- and performance-wise, require detailed kernel-level tracing; you'll learn to wield the impressive power of Ftrace and its frontends. You'll also discover how to handle kernel lockups, hangs, and the dreaded kernel panic, as well as leverage the venerable GDB tool within the kernel (KGDB), along with much more. By the end of this book, you will have at your disposal a wide range of powerful kernel debugging tools and techniques, along with a keen sense of when to use

which. What you will learn • Explore instrumentation-based printk along with the powerful dynamic debug framework • Use static and dynamic Kprobes to trap into kernel/module functions • Catch kernel memory defects with KASAN, UBSAN, SLUB debug, and kmemleak • Interpret an Oops in depth and precisely identify it's source location • Understand data races and use KCSAN to catch evasive concurrency defects • Leverage Ftrace and trace-cmd to trace the kernel flow in great detail • Write a custom kernel panic handler and detect kernel lockups and hangs • Use KGDB to single-step and debug kernel/module source code Who this book is for This book is for Linux kernel developers, module/driver authors, and testers interested in debugging and enhancing their Linux systems at the level of the kernel. System administrators who want to understand and debug the internal infrastructure of their Linux kernels will also find this book useful. A good grasp on C programming and the Linux command line is necessary. Some experience with kernel (module) development will help you follow along.

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 DescriptionLinux 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. You'll start the journey by learning how to build the kernel from the source. Next, you'll write your first kernel module using the powerful Loadable Kernel Module (LKM) framework. The following chapters will cover key kernel internals topics including Linux kernel architecture, memory management, and CPU scheduling. During the course of this book, 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. If you're a Linux kernel and driver developer looking to overcome frequent and common kernel development issues, or understand kernel internals, you'll find plenty of useful information. You'll need a solid foundation of Linux CLI and C programming before you can jump in.

Linux for Embedded and Real-time Applications Doug Abbott,2003 Linux offers many advantages as an operating system for embedded designs - it's small, portable, scalable, vendor-independent, and based on the open source model. Most Linux books concentrate on desktop and server applications but this text restores the focus to embedded systems.

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.

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'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.

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.

Linux System Programming Robert Love,2013-05-14 Write software that draws directly on services offered by the Linux kernel and core system libraries. With this comprehensive book, Linux kernel contributor Robert Love provides you with a tutorial on Linux system programming, a reference manual on Linux system calls, and an insider's guide to writing smarter, faster code. Love clearly distinguishes between POSIX standard functions and special services offered only by Linux. With a new chapter on multithreading, this updated and expanded edition provides an in-depth look at Linux from both a theoretical and applied perspective over a wide range of programming topics, including: A Linux kernel, C library, and C compiler overview Basic I/O operations, such as reading from and writing to files 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 Thread concepts, multithreaded programming, and Pthreads File and directory management Interfaces for allocating memory and optimizing memory access Basic and advanced signal interfaces, and their role on the system Clock management, including POSIX clocks and high-resolution timers

Understanding The Linux Kernel Daniel P. Bovet,2000

Kernel Architecture and Operating Systems Relationship Usman Ahmad Urfi,2020-03-04 Research Paper (undergraduate) from the year 2019 in the subject Computer Science - Theory, , course: Advance os, language: English, abstract: In this paper a comparison is done on the architecture of the kernel, the core part of the operating system. Different kernels are studied with specific example of operating systems. Each kernel is explained with detail and examples of operating system implementing the kernel are shown in table along with features. After completing the kernel architecture, then genetic inheritance and relationship

among the different operating systems are shown. This relationship shows different categories of the operating system along with the birth date and death date and current state.

Mechanisms for Reliable Distributed Real-Time Operating Systems J. Duane Northcutt,2014-05-10 Mechanisms for Reliable Distributed Real-Time Operating Systems: The Alpha Kernel deals with the Alpha kernel, a set of mechanisms that support the construction of reliable, modular, decentralized operating systems for real-time control applications. An initial snapshot of the kernel design and implementation is provided. Comprised of seven chapters, this volume begins with a background on the Alpha operating system kernel and its implementation, followed by a description of the programming abstractions created for the Alpha kernel. The third chapter defines the client interface provided by the kernel in support of the given programming abstractions, while the fourth chapter focuses on the functional design of the kernel. The hardware on which the kernel was constructed, as well as the implications of this hardware on the design and implementation of the kernel, is also examined. The final chapter compares Alpha with other relevant operating systems such as Hydra, Cronus, Eden, Argus, Accent, and Locus. This book will appeal to computer scientists, systems designers, and undergraduate and graduate students of computer science.

Formal Models of Operating System Kernels Iain D. Craig,2007-03-06 Operating systems kernels are central to the functioning of computers. Security of the overall system, as well as its reliability and responsiveness, depend upon the correct functioning of the kernel. This unique approach – presenting a formal specification of a kernel – starts with basic constructs and develops a set of kernels; proofs are included as part of the text.

Linux Kernel Programming ,2002

Linux Observability with BPF David Calavera,Lorenzo Fontana,2019-11-14 Build your expertise in the BPF virtual machine in the Linux kernel with this practical guide for systems engineers. You’ll not only dive into the BPF program lifecycle but also learn to write applications that observe and modify the kernel’s behavior; inject code to monitor, trace, and securely observe events in the kernel; and more. Authors David Calavera and Lorenzo Fontana help you harness the power of BPF to make any computing system more observable. Familiarize yourself with the essential concepts you’ll use on a day-to-day basis and augment your knowledge about performance optimization, networking, and security. Then see how it all comes together with code examples in C, Go, and Python. Write applications that use BPF to observe and modify the Linux kernel’s behavior on demand Inject code to monitor, trace, and observe events in the kernel in a secure way—no need to recompile the kernel or reboot the system Explore code examples in C, Go, and Python Gain a more thorough understanding of the BPF program lifecycle

Designing BSD Rootkits Joseph Kong,2007-04-01 Though rootkits have a fairly negative image, they can be used for both good and evil. Designing BSD Rootkits arms you with the knowledge you need to write offensive rootkits, to defend against malicious ones, and to explore the FreeBSD kernel and operating system in the process. Organized as a tutorial, Designing BSD Rootkits will teach you the fundamentals of programming and developing rootkits under the FreeBSD operating system. Author Joseph Kong's goal is to make you smarter, not to teach you how to write exploits or launch attacks. You'll learn how to maintain root access long after gaining access to a computer and how to hack FreeBSD. Kongs liberal use of examples assumes no prior kernel-hacking experience but doesn't water down the information. All code is thoroughly described and analyzed, and each chapter contains at least one real-world application. Included: -The fundamentals of FreeBSD kernel module programming -Using call hooking to subvert the FreeBSD kernel -Directly manipulating the objects the kernel depends upon for its internal record-keeping -Patching kernel code resident in main memory; in other words, altering the kernel's logic while it’s still running -How to defend against the attacks described Hack the FreeBSD kernel for yourself!

Solaris Internals Jim Mauro,Richard McDougall,2001 Offers expert guidance in performance tuning, memory analysis, sizing. Also covers Kernel organization and process.

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