

Linux Kernel Module Guide

Olaf Kirch, Terry Dawson

Linux Kernel Module Guide:

The Linux Kernel Module Programming Guide Peter Jay Salzman, Michael Burian, Ori Pomerantz, 2009-01-05 Linux Kernel Module Programming Guide is for people who want to write kernel modules It takes a hands on approach starting with writing a small hello world program and guickly moves from there Far from a boring text on programming Linux Kernel Module Programming Guide has a lively style that entertains while it educates An excellent guide for anyone wishing to get started on kernel module programming Money raised from the sale of this book supports the development of free software **Linux Kernel Programming** Kaiwan N Billimoria, 2021-03-19 Learn how to write high quality kernel and documentation 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 54 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 intervals 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

Kernel Programming Kaiwan N. Billimoria, 2024-02-29 Gain a solid practical understanding and sufficient theoretical insight into Linux kernel internals while learning to write high quality kernel module code and understanding 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 on the 6 1 LTS kernel 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 quide for those new to Linux kernel development Built around the latest 6 1 Long Term Support LTS Linux kernel which is maintained until December 2026 this edition explores its key features and enhancements Additionally with the Civil Infrastructure Project extending support for the 6 1 Super LTS SLTS kernel until August 2033 this book will remain relevant for years to come You ll begin this exciting journey by learning how to build the kernel from source Step by step vou 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 for example 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 build a strong understanding of the fundamentals to 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 Professional Guide to Linux System Programming: Understanding and Implementing Advanced Techniques Adam Jones, 2024-11-27 Professional Guide to Linux System Programming Understanding and Implementing Advanced Techniques is an essential resource for those eager to deepen their expertise of Linux and master advanced system programming skills This comprehensive guide delves into the technical depths of the Linux operating system from its kernel intricacies to the complexities of device drivers and kernel modules Covering a broad spectrum of topics such as file operations process management interprocess communication memory management network programming debugging application security and sophisticated programming methodologies it

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Vugt shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills The material is presented in a concise manner focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques Exam topic lists make referencing easy and chapter ending Exam Preparation Tasks help you drill deep on key concepts you must know thoroughly to pass the exam Review questions help you assess your knowledge and a final preparation chapter guides you through tools and resources to help you craft your final study plan The companion website also contains two additional practice tests plus two full hours of personal video training from the author's Red Hat Certified System Administrator RHCSA RHEL 9 Complete Video Course Well regarded for its level of detail assessment features and challenging review questions and exercises this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time including Basic system management Installation tools file management text files RHEL9 connections user group management permissions and network configuration Operating running systems Managing software processes storage and advanced storage working with Systemd scheduling tasks and configuring logging Advanced system administration Managing the kernel and boot procedures essential troubleshooting bash shell scripting Managing network services Configuring SSH firewalls and time services managing Apache HTTP services and SE Linux accessing network storage and managing containers Novell Certified Linux 9 (CLE 9) Study Guide Robb H. Tracy, 2005-08-31 The Novell Certified Linux Engineer CLE Study Guide is designed to prepare you for the challenge of the most current CLE practicum The author's experience as a certification trainer and system administrator will provide you with a real world understanding of how to administer and troubleshoot Novell Linux products and services Exam topics are covered through real world examples with guided steps that were developed in the field With the Novell Certified Linux Engineer CLE Study Guide you will master the knowledge of administering and troubleshooting the Novell Linux systems and prepare for CLE exam success 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 DescriptionThe 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 Fedora 15 Deployment Guide Fedora Documentation Project, 2011-08 The official Fedora 15 Deployment Guide covers deployment configuration and administration of Fedora 15 It is oriented towards system administrators with a basic understanding of the system **Manjaro Linux User Guide** Atanas Georgiev Rusev, 2023-11-30 An easy to follow Linux book for beginners and intermediate users to learn how Linux works for most everyday tasks with practical examples Key Features Presented through Manjaro a top 5 Linux distribution for 8 years Covers all Linux basics including installation and thousands of available applications Learn how to easily protect your privacy online manage your system and handle backups Master key Linux concepts such as file systems sharing systemd and journalctl Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionFor the beginner or intermediate user this Linux book has it all The book presents Linux through Manjaro an Arch based efficient Linux distribution Atanas G Rusev a dedicated Manjaro enthusiast and seasoned writer with thousands of pages of technical documentation under his belt has crafted this comprehensive guide by compiling information scattered across countless articles manuals and posts The book provides an overview of the different desktop editions and detailed installation instructions and offers insights into the GUI modules and features of Manjaro's official editions You'll explore the regular software Terminal and all basic Linux commands and cover topics such as package management filesystems automounts storage backups and encryption The book s modular structure allows you to navigate to the specific information you need whether it s data sharing security and networking firewalls VPNs or SSH You ll build skills in service and user management

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