Linux
Kernel Debugging

Leverage proven tools and advanced techniques to effectively debug
Linux kernels and kernel modules

Kaiwan N Billimoria

The Linux Kernel Debugging Computer Science

Colin Boyd,Wenbo Mao

The Linux Kernel Debugging Computer Science:

   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   **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   **Memory Dump Analysis Anthology** Dmitry Vostokov,2008-04 This revised cross referenced and thematically organized volume of selected DumpAnalysis org blog posts targets software engineers developing and maintaining products on Windows platforms technical support and escalation

engineers   **The Linux Kernel Primer** Claudia Salzberg Rodriguez,Claudia Salzberg,Gordon Fischer,Steven Smolski,2006 Offers a comprehensive view of the underpinnings of the Linux kernel on the Intel x86 and the Power PC   *The Proceedings of the Thirtieth SIGCSE Technical Symposium on Computer Science Education* Jane Prey,SIGCSE99: The 30th ACM SIGCSE Technical Symposium,1999   The Proceedings of the Thirtieth SIGCSE Technical Symposium on Computer Science Education Daniel T. Joyce,1999   **Computer Sciences Technical Report** ,2004   Algorithms and Architectures for Parallel Processing Ting Hu,Feng Wang,Hongwei Li,Qian Wang,2018-12-29 This book constitutes the workshop proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2018 held in Guangzhou China in November 2018 The 24 full papers presented were carefully selected and reviewed from numerous submissions to the two following workshops ICA3PP 2018 Workshop on Intelligent Algorithms for Large scale Complex Optimization Problems ICA3PP 2018 Workshop on Security and Privacy in Data Processing   *Linux System Programming* Robert Love,2007-11-15 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 you have 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   **Linux Journal** ,2005-07

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Information Security Colin Boyd,Wenbo Mao,2003-12-12 The 2003 Information Security Conference was the sixth in a series that started with the InformationSecurity Workshopin 1997 A distinct feature of this series is the wide coverage of topics with the aim of encouraging interaction between researchers in di erent aspects of information security This trend continued in the program of this year s conference There were 133 paper submissions to ISC 2003 From these submissions the 31papersintheseproceedingswereselectedbytheprogramcommittee covering a wide range of technical areas These papers are supplemented by two invited papers athirdinvitedtalkwaspresentedattheconferencebutisnotrepresented by a written paper We would like to extend our sincere thanks to all the authors that submitted papers to ISC 2003 and we hope that those whose papers were declined will be able to nd an alternative forum for their work We are also very grateful to the three eminent invited speakers at the conference Paul van Oorschot Carleton University Canada Ueli Maurer ETH Zur ich Switzerland and Andy Clark Inforenz Limited UK We were fortunate to have an energetic team of experts who took onthe task of the program committee Their names may be found overleaf and we thank them warmly for their considerable e orts This team was helped by an even larger number of individuals who reviewed papers in their particular areas of expertise A list of these names is also provided which we hope is complete **User Mode Linux** Jeff Dike,2006 With User Mode Linux you can create virtual Linux machines within a Linux computer and use them to test and debug applications network services and even kernels This work covers almost everything from getting started through running enterprise class User Mode Linux servers It offers advice on bootup compilation administration and more **Linux Kernel Programming** THIERRY GAYET,2025-06-11 DESCRIPTION Linus Torvald released the first version of a kernel in 1991 inspired at the time by both proprietary Unix and the Minix system Thirty four years later this system has evolved with stability and robustness making it almost indispensable for the DevSecOps community The Linux kernel forms the robust core of countless systems from embedded devices to vast data centers driving unparalleled power and flexibility This book is your essential guide to deeply understanding this fundamental component and mastering the art of developing high performance kernel level code This book meticulously details the kernel s history architectural evolution and custom build processes You will master device driver fundamentals distinguishing user from kernel space and understanding the Linux Device Model LDM It explores Linux Security Modules intricate kernel memory management and various vital communication interfaces like I2C SPI SERIAL PCI and RTC The guide concludes with task process management real time concepts and essential kernel debugging and profiling By the end of this book you will be well equipped to confidently develop optimize and debug kernel level code This empowers you to build custom Linux systems craft efficient device drivers and troubleshoot complex issues ready to tackle advanced Linux system programming challenges You will also be able to better understand this system and develop your own drivers or low level developments for it WHAT YOU WILL LEARN GNU Linux kernel history feature evolution and licensing Understand

and develop your character and block drivers Develop new file systems Manage your systems by communicating with the USB protocol Debug your drivers your kernel or any other module in the kernel space Understand the layout of the Linux device model Memory management in the kernel as well as via DMA or NUMA Implement Linux Security Modules LSM and Netfilter stack hooks WHO THIS BOOK IS FOR This book is for software engineers looking to understand the Linux kernel s architecture modify it and develop custom modules It also supports project managers team leaders and technical managers seeking a clear view of kernel development and capabilities CISOs and IT managers will benefit from insights into kernel limitations vulnerabilities and security measures such as Linux Security Modules LSMs TABLE OF CONTENTS 1 History of the GNU Linux Kernel 2 Introduction to the Linux Kernel 3 Introduction to Device Drivers 4 Linux Device Model 5 Character Device Drivers 6 Block Drivers and Virtual Filesystem 7 USB Drivers and libusb 8 Network Drivers 9 Linux Security Modules 10 Kernel Memory and DMA 11 Navigating Linux Communication Interfaces 12 Process Management 13 Debugging GNU Linux Kernel and Drivers   *Open-source as an Alternative to Commercial Software* Sean Coleman,2009   **Linux NFS and Automounter Administration** Erez Zadok,2001 The Craig Hunt Linux Library provides the advanced information that Linux professionals and systems administrators need to keep their Linux servers up and running at maximum efficiency Developed by noted Linux and TCP IP guru Craig Hunt and written by acknowledged Linux experts these books dig deeper into each of the eight key Linux topics Samba Apache DHCP NFS and Automounter Sendmail DNS security and system administration than any other book on the market Erez Zadok creator of the latest release of Automounter Daemon Amd pens this comprehensive look inside the most popular Linux Unix distributed file system Learn how to install and configure Amd and NFS for optimum speed and reliability This addition to the popular Craig Hunt Linux Library gives you an in depth look at troubleshooting NFS access problems server side and client security plus using the Automounter query tool Amq   *InfoWorld* ,2003-06-02 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects   **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 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   World of Computer Science: M-Z Brigham Narins,2002 Containing approximately 650 alphabetically arranged entries and 200 photographs the World of Computer Science meets the information need for a wide variety of computer studies It is a subject specific guide to pioneers discoveries theories concepts issues and ethics and gives attention to lesser known scientists minorities and women   *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 confidentlyPerform I O on peripheral hardware chip memoryExplore kernel APIs to work with delays timers kthreads and workqueuesUnderstand kernel concurrency issuesWork with key kernel synchronization primitives and discover how to detect and avoid deadlockWho 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

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