

Linux Device Driver Development

Second Edition

Everything you need to start with device driver development
for Linux kernel and embedded Linux



John Madiou



Linux Device Driver 4th Edition

**Shon Harris, Fernando Maymi, Jonathan
Ham**



Linux Device Driver 4th Edition:

Linux Device Drivers Jessica McKellar, Alessandro Rubini, Jonathan Corbet, 2015-02-25 Having already helped two generations of programmers explore Linux and write devices the fourth edition of this classic book delves into tty USB and HCI devices such as keyboards in addition to basic character devices Linux Device Drivers includes numerous full featured examples that you can compile and run without special hardware Written by well known leaders in Linux development and programming this book covers significant changes to Version 3.2 of the Linux kernel the basis of the Precise Pangolin release of Ubuntu All you need to get started is an understanding of the C programming language and some background in Unix system calls Learn how to support computer peripherals under the Linux operating system Develop and write software for new hardware that Linux supports Understand the basics of Linux operation even if you don't expect to write a driver Dive into new chapters on video audio wireless and Bluetooth devices As the operating system for Android and many embedded systems Linux constantly needs new device drivers This book helps you get it done

Linux Device Driver Development John Madieu, 2022-04-21 Get up to speed with the most important concepts in driver development and focus on common embedded system requirements such as memory management interrupt management and locking mechanisms Key Features Write feature rich and customized Linux device drivers for any character SPI and I2C device Develop a deep understanding of locking primitives IRQ management memory management DMA and so on Gain practical experience in the embedded side of Linux using GPIO IIO and input subsystems Book Description Linux is by far the most used kernel on embedded systems Thanks to its subsystems the Linux kernel supports almost all of the application fields in the industrial world This updated second edition of Linux Device Driver Development is a comprehensive introduction to the Linux kernel world and the different subsystems that it is made of and will be useful for embedded developers from any discipline You'll learn how to configure tailor and build the Linux kernel Filled with real world examples the book covers each of the most used subsystems in the embedded domains such as GPIO direct memory access interrupt management and I2C SPI device drivers This book will show you how Linux abstracts each device from a hardware point of view and how a device is bound to its driver's You'll also see how interrupts are propagated in the system as the book covers the interrupt processing mechanisms in depth and describes every kernel structure and API involved This new edition also addresses how not to write device drivers using user space libraries for GPIO clients I2C and SPI drivers By the end of this Linux book you'll be able to write device drivers for most of the embedded devices out there What you will learn Download configure build and tailor the Linux kernel Describe the hardware using a device tree Write feature rich platform drivers and leverage I2C and SPI buses Get the most out of the new concurrency managed workqueue infrastructure Understand the Linux kernel timekeeping mechanism and use time related APIs Use the regmap framework to factor the code and make it generic Offload CPU for memory copies using DMA Interact with the real world using GPIO IIO and input subsystems Who this book is for This Linux

OS book is for embedded system and embedded Linux enthusiasts developers who want to get started with Linux kernel development and leverage its subsystems Electronic hackers and hobbyists interested in Linux kernel development as well as anyone looking to interact with the platform using GPIO IIO and input subsystems will also find this book useful

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

Mastering Embedded Linux Programming Chris Simmonds, 2015-12-29 Harness the power of Linux to create versatile and robust embedded solutions About This Book Create efficient and secure embedded devices using Linux Minimize project costs by using open source tools and programs Explore each component technology in depth using sample implementations as a guide Who This Book Is For This book is ideal for Linux developers and system programmers who are already familiar with embedded systems and who want to know how to create best in class devices A basic understanding of C programming and experience with systems programming is needed What You Will Learn Understand the role of the Linux kernel and select an appropriate role for your application Use Buildroot and Yocto to create embedded Linux systems quickly and efficiently Create customized bootloaders using U-Boot Employ perf and ftrace to identify performance bottlenecks Understand device trees and make changes to accommodate new hardware on your device Write applications that interact with Linux device drivers Design and write multi threaded applications using POSIX threads Measure real time latencies and tune the Linux kernel to minimize them In Detail 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 begin by learning about toolchains bootloaders the Linux kernel and how to configure a root filesystem to create a basic working device You will then learn how to use the two most commonly used build systems Buildroot and Yocto to speed up and simplify the development process Building on this solid base the next section considers how to make best use of raw NAND NOR flash memory and managed flash eMMC chips including mechanisms for increasing the lifetime of the devices and to perform reliable in field updates Next you need to consider what techniques are best suited to writing applications for your device We will then see how functions are split between processes and the usage of POSIX threads which have a big impact on the responsiveness and performance of the final device The closing sections look at the techniques available to developers for profiling and tracing applications and kernel code using perf and ftrace Style and approach This book is an easy to follow and pragmatic guide consisting of an in depth analysis of the implementation of embedded devices Each topic has a logical approach to it this coupled with hints and best practices helps you understand embedded Linux better

Computer Engineering and Networking W. Eric Wong,Tingshao Zhu,2014-02-03 This book aims to examine innovation in the fields of computer engineering and networking The book covers important emerging topics in computer engineering and networking and it will help researchers and engineers improve their knowledge of state of art in related areas The book presents papers from The Proceedings of the 2013 International Conference on Computer Engineering and Network CENet2013 which was held on 20 21 July in Shanghai China

Mastering Linux Device Driver Development John Madieu,2021-01-08 Develop advanced Linux device drivers for embedded systems mastering real world frameworks like PCI ALSA SoC and V4L2 with practical code examples and debugging techniques Key Features Gain hands on expertise with real Linux subsystems PCI ALSA SoC V4L2 and power management Apply advanced techniques for kernel debugging regmap API and custom hardware integration Build robust drivers through step by step examples and practical engineering insights Book DescriptionLinux is one of the fastest growing operating systems around the world and in the last few years the Linux kernel has evolved significantly to support a wide variety of embedded devices with its improved subsystems and a range of new features With this book you ll find out how you can enhance your skills to write custom device drivers for your Linux operating system Mastering Linux Device Driver Development provides complete coverage of kernel topics including video and audio frameworks that usually go unaddressed You ll work with some of the most complex and impactful Linux kernel frameworks such as PCI ALSA for SoC and Video4Linux2 and discover expert tips and best practices along the way In addition to this you ll understand how to make the most of frameworks such as NVMEM and Watchdog Once you ve got to grips with Linux kernel helpers you ll advance to working with special device types such as Multi Function Devices MFD followed by video and audio device drivers By the end of this book you ll be able to write feature rich device drivers and integrate them with some of the most complex Linux kernel frameworks including V4L2 and ALSA for SoC What

you will learn Explore and adopt Linux kernel helpers for locking work deferral and interrupt management Understand the Regmap subsystem to manage memory accesses and work with the IRQ subsystem Get to grips with the PCI subsystem and write reliable drivers for PCI devices Write full multimedia device drivers using ALSA SoC and the V4L2 framework Build power aware device drivers using the kernel power management framework Find out how to get the most out of miscellaneous kernel subsystems such as NVMEM and Watchdog Who this book is for This book is for embedded developers Linux system engineers and advanced programmers seeking to master Linux device driver development for custom hardware and peripherals Readers should have C programming experience and a basic grasp of kernel concepts Ideal for those wanting practical project based guidance on leveraging frameworks such as PCI ALSA SoC V4L2 and power management to build production grade drivers

Write Great Code, Volume 1, 2nd Edition Randall Hyde,2020-07-31 Understanding the Machine the first volume in the landmark Write Great Code series by Randall Hyde explains the underlying mechanics of how a computer works This the first volume in Randall Hyde s Write Great Code series dives into machine organization without the extra overhead of learning assembly language programming Written for high level language programmers Understanding the Machine fills in the low level details of machine organization that are often left out of computer science and engineering courses Learn How the machine represents numbers strings and high level data structures so you ll know the inherent cost of using them How to organize your data so the machine can access it efficiently How the CPU operates so you can write code that works the way the machine does How I O devices operate so you can maximize your application s performance when accessing those devices How to best use the memory hierarchy to produce the fastest possible programs Great code is efficient code But before you can write truly efficient code you must understand how computer systems execute programs and how abstractions in programming languages map to the machine s low level hardware After all compilers don t write the best machine code programmers do This book gives you the foundation upon which all great software is built NEW IN THIS EDITION COVERAGE OF Programming languages like Swift and Java Code generation on modern 64 bit CPUs ARM processors on mobile phones and tablets Newer peripheral devices Larger memory systems and large scale SSDs

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

Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs, 4th Edition (Exams 220-801 & 220-802) Mike Meyers,2012-08-21 Written by the leading authority on CompTIA A certification and training this instructive full color guide will help you pass CompTIA A exams 220 801 and 220 802 and become an expert hardware technician Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Fourth Edition is completely up to date with the new CompTIA A standards Inside you ll find helpful on the job tips end of chapter practice questions and hundreds of photographs and illustrations Answers and solutions to the

end of chapter sections are only available to instructors and are not printed inside the book Amazon com viewed 6 5 2020

Interaction Design for 3D User Interfaces Francisco R. Ortega, Fatemeh Abyarjoo, Armando Barreto, Naphtali Rishe, Malek Adjouadi, 2016-01-06 This book addresses the new interaction modalities that are becoming possible with new devices by looking at user interfaces from an input perspective It deals with modern input devices and user interaction and design covering in depth theory advanced topics for noise reduction using Kalman Filters a case study and multiple chapters showing hands on approaches to relevant technology including modern devices such as the Leap Motion Xbox One Kinect inertial measurement units and multi touch technology It also discusses theories behind interaction and navigation past and current techniques and practical topics about input devices

CompTIA Network All-in-One Exam Guide, Fourth Edition Mike Meyers, 2009-02-14 All in One is All You Need Get complete coverage of all the material included on the latest release of the CompTIA Network exam inside this fully updated comprehensive resource Written by CompTIA certification and training expert Mike Meyers this authoritative exam guide features learning objectives at the beginning of each chapter exam tips practice questions and in depth explanations Designed to help you pass the CompTIA Network exam with ease this definitive volume also serves as an essential on the job reference Covers all exam topics including how to Build a network with the OSI seven layer model Configure network hardware topologies and cabling Connect multiple Ethernet components Configure wireless networks Work with network protocols including TCP IP DNS SIP and IMAP Configure IPv4 and IPv6 routing protocols Share and access network resources Interconnect network operating systems Windows Mac OS UNIX Linux Set up clients and servers for remote access Monitor and troubleshoot networks Secure networks with firewalls packet filtering encryption authentication and other methods The CD ROM features Hundreds of practice questions Video introduction to CompTIA Network A collection of Mike s favorite shareware and freeware networking tools and utilities Complete electronic book

CISSP Bundle, Fourth Edition Shon Harris, Fernando Maymi, Jonathan Ham, 2018-12-24 Prepare for the 2018 CISSP exam with this up to date money saving study package Designed as a complete self study program this collection offers a wide variety of proven exam focused resources to use in preparation for the current edition of the CISSP exam The set bundles the eighth edition of Shon Harris bestselling CISSP All in One Exam Guide and CISSP Practice Exams Fifth Edition You will gain access to a variety of comprehensive resources to get ready for the challenging exam CISSP Bundle Fourthe Edition fully covers all eight exam domains and offers real world insights from the authors professional experiences More than 2500 accurate practice exam questions are provided along with in depth explanations of both the correct and incorrect answers The included Total Tester test engine provides full length timed simulated exams or customized quizzes that target selected chapters or exam objectives Presents 100% coverage of the 2018 CISSP Exam Includes special discount to Shon Harris Brand CISSP video training from Human Element Security Written by leading experts in IT security certification and training

Linux Journal ,2004 [Mike Meyers CompTIA Network+ Guide to](#)

Managing and Troubleshooting Networks, Fourth Edition (Exam N10-006) Mike Meyers, 2015-05-29 Essential Skills for a Successful IT Career Written by Mike Meyers the leading expert on CompTIA certification and training this up to date full color text will prepare you for CompTIA Network exam N10 006 and help you become an expert networking technician Fully revised for the latest CompTIA Network exam including coverage of performance based questions the book contains helpful on the job tips end of chapter practice questions and hundreds of photographs and illustrations Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition covers Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Electronic content includes 100 practice exam questions in a customizable test engine 20 lab simulations to help you prepare for the performance based questions One hour of video training from Mike Meyers Mike s favorite shareware and freeware networking tools and utilities Each chapter features Learning objectives Photographs and illustrations Real world examples Try This and Cross Check exercises Key terms highlighted Tech Tips Notes and Warnings Exam Tips End of chapter quizzes and lab projects Instructor resources available Instructor s Manual Power Point slides for each chapter with photographs and illustrations from the book Test Bank cartridges with hundreds of questions for use as quizzes and exams Answers to the end of chapter sections are not printed in the book and are only available to adopting instructors

Proceedings of the ... Symposium on Operating Systems Design and Implementation (OSDI ...), 2000 **UNIX Review's Performance Computing**, 1999 *Linux System Administration* Anne H. Carasik, 1999 Tackling system administration while integrating good security practices this book includes the newest version of Slackware 3.5 released in July 1998 The CD ROM also contains a host of other system administration and security tools like SAMBA MySWL backup software and Linuxconf

Anti-Hacker Tool Kit, Fourth Edition Mike Shema, 2014-02-07 Featuring complete details on an unparalleled number of hacking exploits this bestselling computer security book is fully updated to cover the latest attack types and how to proactively defend against them Anti Hacker Toolkit Fourth Edition is an essential aspect of any security professional s anti hacking arsenal It helps you to successfully troubleshoot the newest toughest hacks yet seen The book is grounded in real world methodologies technical rigor and reflects the author s in the trenches experience in making computer technology usage and deployments safer and more secure for both businesses and consumers The new edition covers all new attacks and countermeasures for advanced persistent threats APTs infrastructure hacks industrial automation and embedded devices wireless security the new SCADA protocol hacks malware web app security social engineering forensics tools and more You ll learn how to prepare a comprehensive defense prior to attack against the most invisible of attack types from the tools explained in this resource all demonstrated by real life case examples which have been updated for this new edition The book is organized by attack type to allow you to quickly find what you need

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