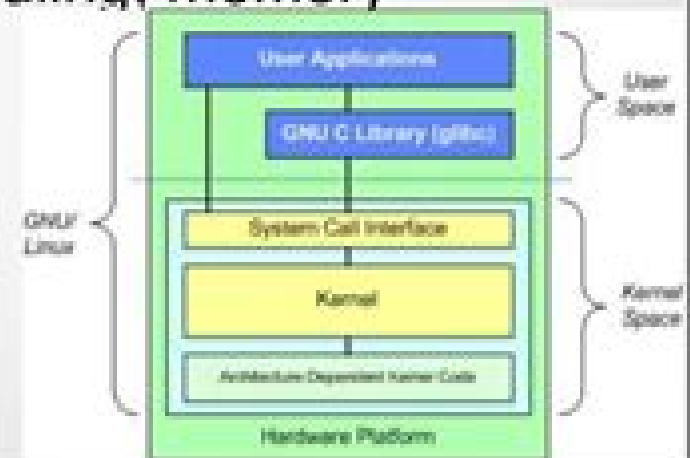


Linux Kernel

- .Monolithic kernel, Preemptive scheduling
- .But not a **static** kernel like the traditional monolithic kernels. Device drivers can be load to kernel as “Module”.
- .Abstraction of underlaying hardware
- .File system management, CPU scheduling, memory management, Networking, Security



Kernel Module Programming

Rodolfo Giometti



Kernel Module Programming:

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 quickly 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 and documentation.

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 Description: Linux 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 using the 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 allocation/deallocation 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**

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 Description The 2nd Edition of Linux Kernel Programming is an updated comprehensive guide 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 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 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 [Beginning Linux? Programming](#) Neil Matthew, Richard Stones, 2004-01-02 The book starts with the basics explaining how to compile and run your first program First each concept is explained to give you a solid understanding of the material Practical examples are then presented so you see how to apply the knowledge in real applications *Linux Kernel Programming Part 2 - Character 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 Features Delve 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

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 offers a thorough exploration

of essential system programming principles Ideal for software developers system administrators and computer science students the book provides practical insights detailed explanations and illustrative examples to facilitate a profound understanding of Linux s internal mechanics By empowering readers with the knowledge to optimize secure and efficiently manage Linux systems Professional Guide to Linux System Programming fosters innovation in Linux based projects Immerse yourself in this authoritative guide and emerge as a proficient Linux system programmer ready to tackle complex challenges with confidence and skill

Professional Linux Programming Jon Masters,Richard Blum,2007-02-26 This book is broken into four primary sections addressing key topics that Linux programmers need to master Linux nuts and bolts the Linux kernel the Linux desktop and Linux for the Web Effective examples help get readers up to speed with building software on a Linux based system while using the tools and utilities that contribute to streamlining the software development process Discusses using emulation and virtualization technologies for kernel development and application testing Includes useful insights aimed at helping readers understand how their applications code fits in with the rest of the software stack Examines cross compilation dynamic device insertion and removal key Linux projects such as Project Utopia and the internationalization capabilities present in the GNOME desktop

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 `perf`, `strace` 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.

Learning Embedded Linux Using the Yocto Project Alexandru Vaduva, 2015-06-30. This book offers readers an idea of what embedded Linux software and hardware architecture looks like, cross compiling and also presents information about the bootloader and how it can be built for a specific board. This book will go through Linux kernel features and source code, present information on how to build a kernel, source modules and the Linux root filesystem. You'll be given an overview of the available Yocto Project components, how to set up Yocto Project Eclipse IDE and how to use tools such as `Wic` and `Swabber` that are still under development. It will present the meta-rt layer and the newly created meta-cgl layer, its purpose and how it can add value to poky.

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 Description: If 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 a 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.

Hands-On Embedded Programming with C++17 Maya Posch, 2019-01-31. Build safety critical and memory safe stand alone and networked embedded systems. Key Features: Know how C works and compares to other languages used for embedded development. Create advanced GUIs for embedded devices to design an attractive and functional UI. Integrate proven strategies into your design for optimum hardware performance. Book Description: C is a great choice for embedded development, most notably because it does not add any bloat, extends maintainability and offers many advantages over different programming languages. Hands On Embedded Programming with C 17 will show you how C can be used to build robust and concurrent systems that leverage the available hardware resources. Starting with a primer on embedded programming and the latest features of C 17, the book takes you through various facets of good programming. You'll learn how to use the concurrency, memory management and functional programming features of C to build embedded systems. You will understand how to integrate your systems with external peripherals and efficient ways of working with drivers. This book will also guide you in testing and optimizing code for better performance and implementing useful design patterns. As an additional benefit, you will see how to work with Qt, the popular GUI library used for building embedded systems. By the end of the book, you will have gained the confidence to use C for embedded programming. What you will learn: Choose the correct type of embedded platform to use for a project. Develop drivers for OS based embedded systems. Use concurrency and memory management with various microcontroller units (MCUs). Debug and test cross platform code with Linux. Implement an infotainment system using a Linux based single board computer. Extend an existing embedded system with a Qt based GUI. Communicate with the FPGA side of a hybrid FPGA SoC system. Who this book is for: If you want to start developing effective embedded programs in C, then this book is for you. Good knowledge of C language constructs is required to understand the topics covered in the book. No knowledge of embedded systems is assumed.

Programming Linux Hacker Tools Uncovered: Exploits, Backdoors, Scanners, Sniffers, Brute-Forcers, Rootkits Ivan Sklyarov, 2006. Uncovering the development of the hacking toolset under Linux, this book teaches programmers the methodology behind hacker programming techniques so that they can think like an attacker when developing a defense. Analyses and cutting edge programming are provided of aspects of each hacking item and its source code including ping and traceroute utilities, viruses, worms, Trojans, backdoors, exploits, locals and remotes, scanners, CGI and port smurf and fraggle attacks and brute force attacks. In addition to information on how to exploit buffer overflow errors in the stack, heap and BSS and how to exploit

format string errors and other less common errors this guide includes the source code of all the described utilities on the accompanying CD ROM

Fundamentals of Operating Systems - Concepts and Case Studies Mr. Rohit Manglik, 2024-09-24 Explains core OS concepts through case studies Covers process management scheduling memory file systems and real world examples of popular operating systems

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

Scientific and Statistical Database Management

Bertram Ludäscher,Nikos Mamoulis,2008-07-11 This book constitutes the refereed proceedings of the 20th International Conference on Scientific and Statistical Database Management SSDBM 2008 held in Hong Kong China in July 2008 The 28 revised full papers 7 revised short papers and 8 poster and demo papers presented together with 3 invited talks were carefully reviewed and selected from 84 submissions The papers are organized in topical sections on query optimization in scientific databases privacy searching and mining graphs data streams scientific database applications advanced indexing methods data mining as well as advanced queries and uncertain data

LPIC-1: Linux Professional Institute

Certification Study Guide Christine Bresnahan,Richard Blum,2015-04-16 Your complete guide to preparing for the LPIC 1 Linux Professional Institute Certification Exams 101 400 and 102 400 The LPIC 1 Linux Professional Institute Certification Study Guide 4th Edition is your one stop resource for complete coverage of Exams 101 400 and 102 400 This Sybex Study Guide covers 100% of all exam 101 400 and 102 400 objectives You ll prepare for the exams smarter and faster with Sybex thanks to superior content including assessment tests that check exam readiness objective map real world scenarios hands on exercises key topic exam essentials and challenging chapter review questions Reinforce what you have learned with the exclusive Sybex online learning environment assessable across multiple devices Get prepared for the LPIC 1 Exams 101 400 and 102 400 with Sybex Coverage of 100% of all exam objectives in this Study Guide means you ll be ready for Managing Software Configuring Hardware Managing Files Booting Linux and Editing Files Configuring the X Window System Configuring Basic Networking Writing Scripts Configuring Email and Using Databases Covers 100% of exam objectives including system architecture GNU and UNIX commands shells scripting and data management administrative tasks system services networking and much more Includes interactive online learning environment with Custom practice exams 150 electronic flashcards Searchable key term glossary Interactive learning environment Take your exam prep to the next level with Sybex s superior interactive online tools To access the learning environment simply visit <http://sybextestbanks.wiley.com> type in your unique PIN and instantly gain access to Interactive online learning environment and test bank covering both LPIC 1 exams including 200 chapter review questions and two 50 question bonus exams 150 Electronic Flashcards to reinforce learning and provide last minute prep before the exam Comprehensive searchable glossary in PDF format gives you instant access to the key terms so you are fully prepared

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Study Guide Christine Bresnahan,Richard Blum,2015-04-16 CompTIA Authorized Linux prep CompTIA Linux Study Guide is

your comprehensive study guide for the Linux Powered by LPI certification exams With complete coverage of 100% of the objectives on both exam LX0 103 and exam LX0 104 this study guide provides clear concise information on all aspects of Linux administration with a focus on the latest version of the exam You ll gain the insight of examples drawn from real world scenarios with detailed guidance and authoritative coverage of key topics including GNU and Unix commands system operation system administration system services security and more from a practical perspective that easily translates into on the job know how You ll also get access to helpful study tools including bonus practice exams electronic flashcards and a searchable glossary of key terms that are important to know for exam day Linux is viewed by many companies and organizations as an excellent low cost secure alternative to expensive operating systems such as Microsoft Windows The CompTIA Linux Powered by LPI exams test a candidate s understanding and familiarity with the Linux Kernel Review the basic system architecture installation and management Understand commands devices and file systems Utilize shells scripting and data management techniques Navigate user interfaces desktops and essential system services As the Linux server market share continue to grow so too does the demand for qualified and certified Linux administrators Certification holders must recertify every five years but LPI recommends recertifying every two years to stay fully up to date with new technologies and best practices CompTIA Linux Study Guide gives you the advantage of exam day confidence

Programming Windows Charles Petzold,1988

Operating systems II - student projects Andreas Grapentin

,Clemens Tiedt,Andreas Polze,2023-11-29 EN This technical report presents the results of student projects which were prepared during the lecture Operating Systems II offered by the Operating Systems and Middleware group at HPI in the Summer term of 2020 The lecture covered ad vanced aspects of operating system implementation and architecture on topics such as Virtualization File Systems and Input Output Systems In addition to attending the lecture the participating students were encouraged to gather practical experience by completing a project on a closely related topic over the course of the semester The results of 10 selected exceptional projects are covered in this report The students have completed hands on projects on the topics of Operating System Design Concepts and Implementation Hardware Software Co Design Reverse Engineering Quantum Computing Static Source Code Analysis Operating Systems History Application Binary Formats and more It should be recognized that over the course of the semester all of these projects have achieved outstanding results which went far beyond the scope and the expec tations of the lecture and we would like to thank all participating students for their commitment and their effort in completing their respective projects as well as their work on compiling this report DE Dieser technische Bericht beschreibt die Ergebnisse der Projekte welche im Rahmen der Lehrveranstaltung Betriebssysteme II an teilnehmenden Studierenden durchgef hrt wurden Die Lehrveranstaltung wurde von der Betriebssysteme und Middleware am HPI im Sommersemester 2020 durchgef hrt und behandelte fortgeschrittene Aspekte der Betriebssystemarchitektur und Implementierung am Beispiel der Virtualisierung der Dateisysteme und der Eingabe Ausgabe

I O Systeme Zusätzlich zu den Vorlesungen wurden die Studierenden angeleitet durch die Durchführung eines begleitenden Projekts praktische Erfahrungen im Umgang mit den behandelten Themen zu sammeln Die Ergebnisse von 10 ausgewählten herausragenden Projekten werden in diesem Report vorgestellt Die Studierenden haben unter anderem Projekte zu den Themen Betriebssystemdesign und Implementierung Hardware Software Co Design Reverse Engineering Quanten Computing Statistische Quellcodeanalyse Betriebssystemgeschichte dem Bin format von ausführbaren Dateien durchgeführt Es ist anzuerkennen dass alle teilnehmenden Studierenden im Verlauf des Semesters herausragende Ergebnisse erzielt haben die weit über die Anforderungen der Lehrveranstaltung hinausgingen Wir möchten uns bei allen teilnehmenden Studierenden für Ihren Einsatz bei der Durchführung der Projekte sowie bei der Erstellung dieses Reports bedanken

Linux Device Driver Development Cookbook Rodolfo Giometti, 2019-05-31 Over 30 recipes to develop custom drivers for your embedded Linux applications Key Features Use kernel facilities to develop powerful drivers Learn core concepts for developing device drivers using a practical approach Program a custom character device to get access to kernel internals Book DescriptionLinux is a unified kernel that is widely used to develop embedded systems As Linux has turned out to be one of the most popular operating systems worldwide the interest in developing proprietary device drivers has also increased Device drivers play a critical role in how the system performs and ensure that the device works in the manner intended By exploring several examples on the development of character devices the technique of managing a device tree and how to use other kernel internals such as interrupts kernel timers and wait queue you will be able to add proper management for custom peripherals to your embedded system You will begin by installing the Linux kernel and then configuring it Once you have installed the system you will learn to use different kernel features and character drivers You will also cover interrupts in depth and understand how you can manage them Later you will explore the kernel internals required for developing applications As you approach the concluding chapters you will learn to implement advanced character drivers and also discover how to write important Linux device drivers By the end of this book you will be equipped with the skills you need to write a custom character driver and kernel code according to your requirements What you will learn Become familiar with the latest kernel releases 4.19.5 x running on the ESPRESSOBin devkit an ARM 64 bit machine Download configure modify and build kernel sources Add and remove a device driver or a module from the kernel Understand how to implement character drivers to manage different kinds of computer peripherals Get well versed with kernel helper functions and objects that can be used to build kernel applications Gain comprehensive insights into managing custom hardware with Linux from both the kernel and user space Who this book is for This book is for anyone who wants to develop their own Linux device drivers for embedded systems Basic hands on experience with the Linux operating system and embedded concepts is necessary

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