Embedded Linux Primer

Second Edition

A Practical Real-World Approach

Christopher Hallinan

Embedded Linux Primer A

Rudolf J. Streif

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  Embedded Linux Primer Christopher Hallinan,2010-10-26 Up to the Minute Complete Guidance for Developing Embedded Solutions with Linux Linux has emerged as today s 1 operating system for embedded products Christopher Hallinan s Embedded Linux Primer has proven itself as the definitive real world guide to building efficient high value embedded systems with Linux Now Hallinan has thoroughly updated this highly praised book for the newest Linux kernels capabilities tools and hardware support including advanced multicore processors Drawing on more than a decade of embedded Linux experience Hallinan helps you rapidly climb the learning curve whether you re moving from legacy environments or you re new to embedded programming Hallinan addresses today s most important development challenges and demonstrates how to solve the problems you re most likely to encounter You ll learn how to build a modern efficient embedded Linux development environment and then utilize it as productively as possible Hallinan offers up to date guidance on everything from kernel configuration and initialization to bootloaders device drivers to file systems and BusyBox utilities to real time configuration and system analysis This edition adds entirely new chapters on UDEV USB and open source build systems Tour the typical embedded system and development environment and understand its concepts and components Understand the Linux kernel and userspace initialization processes Preview bootloaders with specific emphasis on U Boot Configure the Memory Technology Devices MTD subsystem to interface with flash and other memory devices Make the most of BusyBox and latest open source development tools Learn from expanded and updated coverage of kernel debugging Build and analyze real time systems with Linux Learn to configure device files and driver loading with UDEV Walk through detailed coverage of the USB subsystem Introduces the latest open source embedded Linux build systems Reference appendices include U Boot and BusyBox commands *Embedded Linux Primer* Hallinan,2006 **Embedded Linux Primer** Christopher Hallinan,2010 Up to the Minute Complete Guidance for Developing Embedded Solutions with Linux Linux has emerged as today s 1 operating system for embedded products Christopher Hallinan s Embedded Linux Primer has proven itself as the definitive real world guide to building efficient high value embedded systems with Linux Now Hallinan has thoroughly updated this highly praised book for the newest Linux kernels capabilities tools and hardware support including advanced multicore processors Drawing on more than a decade of embedded Linux experience Hallinan helps you rapidly climb the learning curve whether you re moving from legacy environments or you re new to embedded programming Hallinan addresses today s most important development challenges and demonstrates how to solve the problems you re most likely to encounter You ll learn how to build a modern efficient embedded Linux development environment and then utilize it as productively as possible Hallinan offers up to date guidance on everything from kernel configuration and initialization to bootloaders device drivers to file systems and BusyBox utilities to real time configuration and system analysis This edition adds entirely new chapters on UDEV USB and open source build systems Tour the typical embedded system and

development environment and understand its concepts and components Understand the Linux kernel and userspace initialization processes Preview bootloaders with specific emphasis on U Boot Configure the Memory Technology Devices MTD subsystem to interface with flash and other memory devices Make the most of BusyBox and latest open source development tools Learn from expanded and updated coverage of kernel debugging Build and analyze real time systems with Linux Learn to configure device files and driver loading with UDEV Walk through detailed coverage of the USB subsystem Introduces the latest open source embedded Linux build systems Reference appendices include U Boot and BusyBox commands   **Embedded Linux Primer** Christopher Hallinan,2019-02-02   *Embedded Linux Primer* Hallinan,1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version Comprehensive Real World Guidance for Every Embedded Developer and EngineerThis book brings together indispensable knowledge for building efficient high value Linux based embedded products information that has never been assembled in one place before Drawing on years of experience as an embedded Linux consultant and field application engineer Christopher Hallinan offers solutions for the specific technical issues you re most likely to face demonstrate

Embedded Linux Systems with the Yocto Project Rudolf J. Streif,2016-04-18 Build Complete Embedded Linux Systems Quickly and Reliably Developers are increasingly integrating Linux into their embedded systems It supports virtually all hardware architectures and many peripherals scales well offers full source code and requires no royalties The Yocto Project makes it much easier to customize Linux for embedded systems If you re a developer with working knowledge of Linux Embedded Linux Systems with the Yocto ProjectTM will help you make the most of it An indispensable companion to the official documentation this guide starts by offering a solid grounding in the embedded Linux landscape and the challenges of creating custom distributions for embedded systems You ll master the Yocto Project s toolbox hands on by working through the entire development lifecycle with a variety of real life examples that you can incorporate into your own projects Author Rudolf Streif offers deep insight into Yocto Project s build system and engine and addresses advanced topics ranging from board support to compliance management You ll learn how to Overcome key challenges of creating custom embedded distributions Jumpstart and iterate OS stack builds with the OpenEmbedded Build System Master build workflow architecture and the BitBake Build Engine Quickly troubleshoot build problems Customize new distros with built in blueprints or from scratch Use BitBake recipes to create new software packages Build kernels set configurations and apply patches Support diverse CPU architectures and systems Create Board Support Packages BSP for hardware specific adaptations Provide Application Development Toolkits ADT for round trip development Remotely run and debug applications on actual hardware targets Ensure open source license compliance Scale team based projects with Toaster Build History Source Mirrors and Autobuilder   **USB Embedded Hosts** Jan Axelson, A guide for designing and programming small embedded systems that access USB devices this book includes topics such as how embedded USB hosts differ from USB

hosts in PCs choosing a hardware and programming platform for a project understanding USB host programming in embedded Linux systems how host applications can access USB devices of all types and designing a system that can communicate with both USB hosts and USB devices Example code explains how to read and write to files on drives get user input from keyboards communicate over virtual serial ports and Ethernet bridges record and play audio and video print documents use a USB display monitor and access vendor defined devices of any type The example code runs on embedded Linux systems including the popular BeagleBoard xM open development board This book is a companion to USB Complete

The Definitive Guide to the Xen Hypervisor David Chisnall,2008 The Xen hypervisor has become an incredibly strategic resource for the industry as the focal point of innovation in cross platform virtualization technology David s book will play a key role in helping the Xen community and ecosystem to grow Simon Crosby CTO XenSource An Under the Hood Guide to the Power of Xen Hypervisor Internals The Definitive Guide to the Xen Hypervisor is a comprehensive handbook on the inner workings of XenSource s powerful open source paravirtualization solution From architecture to kernel internals author David Chisnall exposes key code components and shows you how the technology works providing the essential information you need to fully harness and exploit the Xen hypervisor to develop cost effective highperformance Linux and Windows virtual environments Granted exclusive access to the XenSource team Chisnall lays down a solid framework with overviews of virtualization and the design philosophy behind the Xen hypervisor Next Chisnall takes you on an in depth exploration of the hypervisor s architecture interfaces device support management tools and internals including key information for developers who want to optimize applications for virtual environments He reveals the power and pitfalls of Xen in real world examples and includes hands on exercises so you gain valuable experience as you learn This insightful resource gives you a detailed picture of how all the pieces of the Xen hypervisor fit and work together setting you on the path to building and implementing a streamlined cost efficient virtual enterprise Coverage includes Understanding the Xen virtual architecture Using shared info pages grant tables and the memory management subsystem Interpreting Xen s abstract device interfaces Configuring and managing device support including event channels monitoring with XenStore supporting core devices and adding new device types Navigating the inner workings of the Xen API and userspace tools Coordinating virtual machines with the Scheduler Interface and API and adding a new scheduler Securing near native speed on guest machines using HVM Planning for future needs including porting power management new devices and unusual architectures

Using BusyBox (Digital Short Cut) Christopher Hallinan,2006-07-21 This is the eBook version of the printed book This digital Short Cut delivered in Adobe PDF format for quick and easy access is an introduction to BusyBox widely regarded as The Swiss Army Knife of Embedded Linux After a brief introduction we walk you through the BusyBox configuration utility This is used to tailor BusyBox to your particular requirements You will next learn about the requirements for cross compiling the BusyBox package Then we look at BusyBox operational issues including how it is used in an embedded system Next you

will examine the BusyBox initialization sequence and how this departs from more traditional Linux systems You will also study a sample initialization script After reading the steps for installing BusyBox on a target system you will learn about some of the BusyBox commands and their limitations This Short Cut is Chapter 11 from the book Embedded Linux Primer by Christopher Hallinan 0 13 167984 8 available September 2007 As such it contains references to earlier and later chapters that are not included in this Short Cut Apart from these references the Short Cut is fully self contained and is an excellent choice for embedded Linux developers interested in understanding how to use the BusyBox utility Table of Contents 11 1 Introduction to BusyBox 11 1 1 BusyBox is Easy 11 2 BusyBox Configuration 11 2 1 Cross Compiling BusyBox 11 3 BusyBox Operation 11 3 1 BusyBox Init 11 3 2 Example rcS Initialization Script 11 3 3 BusyBox Target Installation 11 3 4 BusyBox Commands 11 4 Chapter Summary 11 4 1 Suggestions for Additional Reading **System Design for Telecommunication Gateways** Alexander Bachmutsky,2011-06-20 System Design for Telecommunication Gateways provides a thorough review of designing telecommunication network equipment based on the latest hardware designs and software methods available on the market Focusing on high end efficient designs that challenge all aspects of the system architecture this book helps readers to understand a broader view of the system design analyze all its most critical components and select the parts that best fit a particular application In many cases new technology trends potential future developments system flexibility and capability extensions are outlined in preparation for the longevity typical for products in the industry Key features Combines software and hardware aspects of the system design Defines components and services supported by open source and commercial basic and extended software platforms including operating systems middleware security routing management layer and more Focuses on disruptive technologies Provides guidelines for developing software architectures based on multi threaded multi process multi instance multi core multi chip multi blade and multi chassis designs Covers a number of advanced high speed interconnect and fabric interface technologies and their commercial implementations Presents different system form factors from compact pizza box styles to medium and large bladed systems including IBM BladeCenter ATCA and microTCA based chassis Describes different mezzanine cards such as PMC PrPMC XMC AMC and others The Apache Modules Book Nick Kew,2007-01-26 Do you learn best by example and experimentation This book is ideal Have your favorite editor and compiler ready you ll encounter example code you ll want to try right away You ve picked the right book this is sure to become the de facto standard guide to writing Apache modules Rich Bowen coauthor Apache Administrators Handbook Apache Cookbook and The Definitive Guide to Apache mod_rewrite A first rate guide to getting the most out of Apache as a modular application platform sure to become a must read for any Apache programmer from beginner to experienced professional It builds up carefully and meticulously from the absolute basics while including chapters on everything from the popular Apache DBD Framework to best practices security and debugging Noirin Plunkett documentation committer to the Apache httpd project and member of the ASF conference committee The Only

Comprehensive Guide to Developing Apache 2 x Modules and Applications Apache is more than the world s most popular Web server it s also an extraordinarily powerful and extensible development platform Now ApacheTutor org s Nick Kew has written The Apache Modules Book the first start to finish example rich guide for every developer who wants to make the most of Apache Kew begins with detailed accessible introductions to Apache s architecture and API then illuminates all the techniques you ll need from request processing through code security He brings together the best of both worlds powerful C based techniques for accomplishing tasks Perl or PHP can t handle implemented with tools that deliver all the productivity you d expect from higher level languages Utilizing realistic code samples Kew introduces techniques documented in no other book and often nowhere else at all Coverage includes Using Apache Portable Runtime APR to streamline C development and avoid its pitfalls Leveraging Apache DBD to build applications far more scalable than classic LAMP software Working with the latest Apache 2 x features filter modules XML support and smart proxies Mastering best practices from thread safety to multi platform development Utilizing the Apache Authentication Framework Tracing and debugging problems in both Apache and your custom modules Foreword Preface Acknowledgments About the Author Chapter 1 Applications Development with Apache Chapter 2 The Apache Platform and Architecture Chapter 3 The Apache Portable Runtime Chapter 4 Programming Techniques and Caveats Chapter 5 Writing a Content Generator Chapter 6 Request Processing Cycle and Metadata Handlers Chapter 7 AAA Access Authentication and Authorization Chapter 8 Filter Modules Chapter 9 Configuration for Modules Chapter 10 Extending the API Chapter 11 The Apache Database Framework Chapter 12 Module Debugging Appendix A Apache License Appendix B Contributor License Agreements Appendix C Hypertext Transfer Protocol HTTP 1 1 Index About the Web Site ApacheTutor org contains code examples from the book all designed for easy use and integration into existing applications   **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   **Essential Linux Device Drivers** Sreekrishnan Venkateswaran,2008-03-27 Probably the most wide ranging and complete Linux device driver book I ve read Alan Cox Linux Guru and Key Kernel Developer Very comprehensive and detailed covering almost every single Linux device driver type Theodore Ts o First Linux Kernel Developer in North America and Chief Platform Strategist of the Linux Foundation The Most Practical Guide to Writing Linux Device Drivers Linux now offers an exceptionally robust environment for driver development with today s kernels what once required years of development time can be accomplished in days In this practical example driven book one of the world s most experienced Linux driver developers systematically demonstrates how to develop reliable Linux drivers for virtually any device Essential Linux Device Drivers is for any programmer with a working knowledge of operating systems and C including programmers who have never written drivers before Sreekrishnan Venkateswaran focuses on the essentials bringing together all the concepts and techniques you need while avoiding topics that only matter in highly specialized situations Venkateswaran

begins by reviewing the Linux 2 6 kernel capabilities that are most relevant to driver developers He introduces simple device classes then turns to serial buses such as I2C and SPI external buses such as PCMCIA PCI and USB video audio block network and wireless device drivers user space drivers and drivers for embedded Linux one of today s fastest growing areas of Linux development For each Venkateswaran explains the technology inspects relevant kernel source files and walks through developing a complete example Addresses drivers discussed in no other book including drivers for I2C video sound PCMCIA and different types of flash memory Demystifies essential kernel services and facilities including kernel threads and helper interfaces Teaches polling asynchronous notification and I O control Introduces the Inter Integrated Circuit Protocol for embedded Linux drivers Covers multimedia device drivers using the Linux Video subsystem and Linux Audio framework Shows how Linux implements support for wireless technologies such as Bluetooth Infrared WiFi and cellular networking Describes the entire driver development lifecycle through debugging and maintenance Includes reference appendixes covering Linux assembly BIOS calls and Seq files **SELinux by Example** Frank Mayer,Karl MacMillan,David Caplan,2007 This is an overview to the concepts and architecture of the NSA s SELinux With this text the reader will develop a deep understanding of and learn to effectively use SELinux It teaches how to use SELinux to build secure systems and explores tools and techniques for writing effective SELinux policies **Security in Computing** Charles P. Pfleeger,Shari Lawrence Pfleeger,2007 The New State of the Art in Information Security Now Covers the Economics of Cyber Security and the Intersection of Privacy and Information Security For years IT and security professionals and students have turned to Security in Computing as the definitive guide to information about computer security attacks and countermeasures In their new fourth edition Charles P Pfleeger and Shari Lawrence Pfleeger have thoroughly updated their classic guide to reflect today s newest technologies standards and trends The authors first introduce the core concepts and vocabulary of computer security including attacks and controls Next the authors systematically identify and assess threats now facing programs operating systems database systems and networks For each threat they offer best practice responses Security in Computing Fourth Edition goes beyond technology covering crucial management issues faced in protecting infrastructure and information This edition contains an all new chapter on the economics of cybersecurity explaining ways to make a business case for security investments Another new chapter addresses privacy from data mining and identity theft to RFID and e voting New coverage also includes Programming mistakes that compromise security man in the middle timing and privilege escalation attacks Web application threats and vulnerabilities Networks of compromised systems bots botnets and drones Rootkits including the notorious Sony XCP Wi Fi network security challenges standards and techniques New malicious code attacks including false interfaces and keystroke loggers Improving code quality software engineering testing and liability approaches Biometric authentication capabilities and limitations Using the Advanced Encryption System AES more effectively Balancing dissemination with piracy control in music and other digital content Countering new cryptanalytic attacks against RSA DES

and SHA Responding to the emergence of organized attacker groups pursuing profit **Understanding AJAX** Joshua Eichorn,2006-08-11 AJAX fast mastery for experienced Web developers Already an experienced Web developer Apply your skills in today s fastest growing area of Web development AJAX Building on what you already know this fast paced guide will show you exactly how to create rich usable Internet applications Joshua Eichorn teaches through sophisticated code examples including extensive server side PHP code You won t just learn how to code AJAX applications Eichorn covers the entire development lifecycle from use cases and design through debugging He also presents detailed application case studies including a start to finish update of a non AJAX application that addresses everything from feature improvements to changing usage patterns Coverage includes How AJAX changes the conventional Web development cycle Problems created by the AJAX paradigm and how to avoid them Adding AJAX to existing Web applications key considerations Using core AJAX technologies including the XMLHttpRequest object Consuming data returned to an AJAX application using both XSLT and JSON Building more usable AJAX applications guidelines and downloadable resources Use cases solving real world problems in the AJAX environment Libraries and toolkits for simplifying AJAX development including Sarissa scriptaculous and HTML_AJAX A complete guide to AJAX debugging Supporting browsers without XMLHttpRequest by using IFrames or cookies JSON data encoding debugging guide which covers tools for Firefox and Internet Explorer A list of libraries which includes PHP NET Java and other libraries that can be used with any server language **Embedded Linux Essentials Handbook** Mohammed Billoo,2026-01-30 Get a complete overview of Embedded Linux from the Kernel to Qt and work through hands on examples to build simulate and deploy real world systems on Raspberry Pi 5 Key Features Learn by coding with real examples on Raspberry Pi 5 and QEMU for those who don t have access to hardware Get introduced to Rust and see how it fits within an embedded Linux system Use Qt a modern GUI framework to create applications like a scientific instrument with live temperature sensor data Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionEmbedded Linux now powers everything from IoT devices to industrial systems making it essential for embedded software engineers to be skilled at customizing deploying and developing for these platforms This hands on guide walks you through the core concepts of Embedded Linux using practical real world examples on Raspberry Pi 4 and 5 For those without access to hardware it also demonstrates how to simulate embedded Linux systems using QEMU This book contains code samples that you can follow along and build three real world projects a Python web based dashboard that retrieves and displays data from a temperature sensor and two GUI applications demonstrating how to use the Qt framework on Embedded Linux using two different development paradigms You ll also step into advanced territory with Linux kernel debugging techniques and discover how to harness eBPF building the experience employers want and the confidence to tackle complex embedded challenges By the end of this book you ll have a solid grasp of Embedded Linux development and the skills to build and deploy production ready modern embedded applications What you will learn Understand the architecture components and use cases of embedded

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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

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Embedded Linux Primer A Introduction

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