

Essential Linux Device Drivers



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Mahesh Sambhaji Jadhav



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- Understand kernel concurrency issues
- Work with key kernel synchronization primitives and discover how to detect and avoid deadlock

Who 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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development practices including Python packaging and deploying containerized applications These are followed by a chapter on writing multithreaded code and another on techniques to manage memory efficiently The final chapters demonstrate how to debug your code whether it resides in user space or in the Linux kernel itself In addition to GNU debugger GDB the book also covers 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 book you will be able to create efficient and secure embedded devices with Linux that will delight your users What you will learn Cross compile embedded Linux images with Buildroot and Yocto Enable Wi Fi and Bluetooth connectivity with a Yocto board support package Update IoT devices securely in the field with Mender or balena Prototype peripheral additions by connecting add on boards reading schematics and coding test programs Deploy containerized software applications on edge devices with Docker Debug devices remotely using GDB and measure the performance of systems using tools like perf and ply Who this book is for If you are a systems software engineer or system administrator who wants to learn how to apply Linux to embedded devices then this book is for you The book is also for embedded software engineers accustomed to programming low power microcontrollers and will help them make the leap to a high speed system on chips that can run Linux Anyone who develops hardware for Linux will find something useful in this book But before you get started you will need a solid grasp of the POSIX standard C programming and shell scripting

Professional Linux Kernel Architecture Wolfgang Maurer,2010-03-11 Find an introduction to the architecture concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture a guide to the kernel sources and large number of connections among subsystems Find an introduction to the relevant structures and functions exported by the kernel to userland understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives and gain a deeper understanding of the kernel Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources **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` `ftrace` 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

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