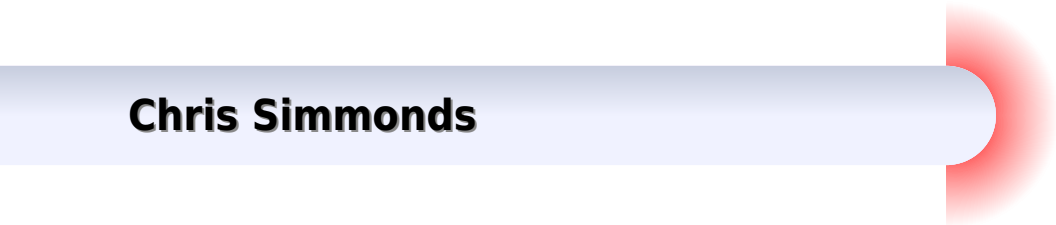


Essential Linux Device Drivers

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Chris Simmonds



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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

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Debugging Linux Systems (Digital Short Cut) Sreekrishnan Venkateswaran,2009-11-03 Debugging Linux Systems discusses the main tools available today to debug 2.6 Linux Kernels We start by exploring the seemingly esoteric operations of the Kernel Debugger KDBG Kernel GNU DeBugger KGDB the plain GNU DeBugger GDB and JTAG debuggers We then investigate Kernel Probes a feature that lets you intrude into a kernel function and extract debug information or apply a medicated patch Analyzing a crash dump can yield clues for postmortem analysis of kernel crashes or hangs so we take a look at Kdump a serviceability tool that collects a system dump after spawning a new kernel Profiling points you to code regions that burn more CPU cycles so we learn to use the OProfile kernel profiler and the `gprof` application profiler to sense the presence of code bottlenecks Because tracing provides insight into behavioral problems that manifest during interactions between different code modules we delve into the Linux Trace Toolkit a system designed for high volume trace capture The section Debugging Embedded Linux takes a tour of the I/O interfaces commonly found on embedded hardware such as flash memory serial port PCMCIA Secure Digital media USB RTC audio video touch screen and Bluetooth and provides pointers to debug the associated device drivers We also pick up some board level debugging skills with the help of a case study The section Debugging Network Throughput takes you through some device driver design issues and protocol implementation characteristics that can affect the horsepower of your network interface card We end the shortcut by examining several options available in the kernel configuration menu that can emit valuable debug information

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