



Your Short Cut to Knowledge

Debugging Linux Systems

Sreekrishnan Venkateswaran

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Debugging Linux Systems Digital Short Cut

Sreekrishnan Venkateswaran

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Debugging Linux Systems Digital Short Cut Sreekrishnan Venkateswaran:

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 KDB, 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.

[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

Linux Debugging and Performance Tuning Steve Francis Best, 2006 This is the definitive guide to Linux software debugging and performance optimization at both the kernel and application levels Using extensive Linux code examples Steve Best systematically introduces open source tools and best practice techniques for delivering bug free well tuned code

BOOK JACKET

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Debugging Linux Systems Digital Short Cut Sreekrishnan Venkateswaran**

In a world inundated with monitors and the cacophony of fast communication, the profound power and emotional resonance of verbal art often disappear in to obscurity, eclipsed by the continuous barrage of sound and distractions. However, situated within the musical pages of **Debugging Linux Systems Digital Short Cut Sreekrishnan Venkateswaran**, a charming function of literary splendor that impulses with raw emotions, lies an unforgettable journey waiting to be embarked upon. Written with a virtuoso wordsmith, that interesting opus manuals visitors on an emotional odyssey, lightly revealing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is key styles, dissect its charming publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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