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Device Driver(Part 2) | Linux
Character Driver Programming |
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For former one, I think it is better to study simple one driver code.

Example from "Linux Device Drivers" is usually too complicated for me. For the later one, I believe author usually point out some source code to read. For readers, I

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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

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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,

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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

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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

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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

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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

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Maintenance • Includes reference
appendixes covering Linux
assembly, BIOS calls, and Seq files

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version. The Most Practical Guide
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Linux now offers an exceptionally
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development: with today's kernels,
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accomplished in days. In this

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Linux has emerged as today ' s # 1

operating system for embedded

products. Christopher Hallinan ' s

Embedded Linux Primer has

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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

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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

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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

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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

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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

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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

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appendices include U-Boot and
BusyBox commands.

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Programming Easy Linux Device
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programming . Book contains all latest programs along with output screen screenshots. Highlighting important sections and stepwise approach helps for quick understanding of programming . Book contains Linux installation ,Hello world program up to USB

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3.0, Display Driver, PCI device driver programming concepts in stepwise approach. Program gives best understanding of theoretical and practical fundamentals of Linux device driver. Beginners should start learning Linux device driver from this book to become

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Virtual Editor Commands Linux
Kernel Linux Kernel Internals
Kernel Space and User space
Device Driver Place of Driver in
System Device Driver working
Characteristics of Device Driver

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Module Commands Hello World
Program pre-settings Write
Program Printk function Makefile
Run program Parameter passing
Parameter passing program
Parameter Array Process related
program Process related program
Character Device Driver Major and

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Minor number API to registers a
device Program to show device
number Character Driver File
Operations File operation program.
Include .h header Functions in
module.h file Important code
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operations PCI Device Driver

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Device Table Code for Basic
Device Driver Important code
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Driver Parts of USB end points

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USB 3.0 USB 3.0 Port connection
Bulk endpoint streaming Stream ID
Device Driver Lock Mutual
Exclusion Semaphore Spin Lock
Display Device Driver Frame
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Structure Check and set Parameter
Accelerated Method Display Driver

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summary Memory Allocation
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Handling interrupt registration
Proc interface Path of interrupt
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Tasklets, Work Queues I/O Control
Introducing ioctl Prototype
Stepwise execution of ioctl Sample

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Symbols Kobjects, Ksets, and
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SELinux, passwords, and policies
Safeguard files and directories
with permissions and attributes

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which processes are running – and which may represent a threat Use system logs to pinpoint potential vulnerabilities Keep Linux up-to-date with Red Hat or Debian software management tools Modify boot processes to harden security Master advanced techniques for

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gathering system information

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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),

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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

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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

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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

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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,

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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 ”

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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

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valuable debug information.

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training from the author's Red Hat Certified System Administrator (RHCSA) Complete Video Course, 3rd Edition. Red Hat RHCSA 8 Cert Guide is a best-of-breed exam study guide. Leading Linux consultant, author, and instructor Sander van Vugt shares

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Preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book

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presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review

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Questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and

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Exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time, including Basic system management: Installation, tools, file management, text files, RHEL8 connections, user/group

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management, permissions, and network configuration Operating running systems: Managing software, processes, storage, and advanced storage; working with systemd; scheduling tasks; and configuring logging Advanced system administration: Managing

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the kernel and boot procedures,
essential troubleshooting, bash
shell scripting Managing network
services: Configuring SSH,
firewalls, and time services;
managing Apache HTTP services
and SE Linux; and accessing
network storage

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Linux® is being adopted by an increasing number of embedded systems developers, who have been won over by its sophisticated scheduling and networking, its cost-free license, its open development model, and the support offered by

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rich and powerful programming tools. While there is a great deal of hype surrounding the use of Linux in embedded systems, there is not a lot of practical information. Building Embedded Linux Systems is the first in-depth, hard-core guide to putting together an

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Embedded system based on the Linux kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using an efficient embedded development framework Selecting,

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configuring, building, and installing
a target-specific kernel Creating a
complete target root filesystem
Setting up, manipulating, and using
solid-state storage devices
Installing and configuring a
bootloader for the target Cross-
compiling a slew of utilities and

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packages Debugging your
embedded system using a plethora
of tools and techniques Details are
provided for various target
architectures and hardware
configurations, including a
thorough review of Linux's support
for embedded hardware. All

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explanations rely on the use of open source and free software packages. By presenting how to build the operating system components from pristine sources and how to find more documentation or help, this book greatly simplifies the task of

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keeping complete control over one's embedded operating system, whether it be for technical or sound financial reasons. Author Karim Yaghmour, a well-known designer and speaker who is responsible for the Linux Trace Toolkit, starts by discussing the

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strengths and weaknesses of Linux as an embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration, setup, and use of over forty different open source and free

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Software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, tftpd, tftp, strace, and gdb are among the packages discussed.

This book follows on from Linux

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Kernel Programming, helping you explore the Linux character device driver framework and enables you to write 'misc' class drivers. You'll learn how to efficiently interface with user apps, perform I/O on hardware memory, handle hardware interrupts, and leverage

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kernel delays, timers, kthreads,
and workqueues.

Master x86 language from the
Linux point of view with this one-
concept-at-a-time guide. Neveln
gives an "under the hood"
perspective of how Linux works

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and shows how to create device drivers. The CD-ROM includes all source code from the book plus edlinas, an x86 simulator that's perfect for hands-on, interactive assembler development.

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