Hardware Drivers

Art Baker,Jerry Lozano

Windows 7 Device Driver Ronald D. Reeves Ph.D.,2010-11-16 "The chapter on programming a KMDF hardware driver provides a great example for readers to see a driver being made." –Patrick Regan, network administrator, Pacific Coast Companies The First Authoritative Guide to Writing Robust, High-Performance Windows 7 Device Drivers Windows 7 Device Driver brings together all the information experienced programmers need to build exceptionally reliable, high-performance Windows 7 drivers. Internationally renowned driver development expert Ronald D. Reeves shows how to make the most of Microsoft's powerful new tools and models; save time and money; and efficiently deliver stable, robust drivers. Drawing on his unsurpassed experience as both a driver developer and instructor, Reeves demystifies Kernel and User Mode Driver development, Windows Driver Foundation (WDF) architecture, driver debugging, and many other key topics. Throughout, he provides best practices for all facets of the driver development process, illuminating his insights with proven sample code. Learn how to Use WDF to reduce development time, improve system stability, and enhance serviceability Take full advantage of both the User Mode Driver Framework (UMDF) and the Kernel Mode Driver Framework (KMDF) Implement best practices for designing, developing, and debugging both User Mode and Kernel Mode Drivers Manage I/O requests and queues, self-managed I/O, synchronization, locks, plug-and-play, power management, device enumeration, and more Develop UMDF drivers with COM Secure Kernel Mode Drivers with safe defaults, parameter validation, counted UNICODE strings, and safe device naming techniques Program and troubleshoot WMI support in Kernel Mode Drivers Utilize advanced multiple I/O queuing techniques Whether you're

creating Windows 7 drivers for laboratory equipment, communications hardware, or any other device or technology, this book will help you build production code more quickly and get to market sooner!

Linux Device Drivers Jonathan Corbet,Alessandro Rubini,Greg Kroah-Hartman,2005-02-07 Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

FreeBSD Device Drivers Joseph Kong,2012-05-12 Device drivers make it possible for your software to communicate with your hardware, and because every operating system has specific requirements, driver writing is nontrivial. When developing for FreeBSD, you've probably had to scour the Internet and dig through the kernel sources to figure out how to write the drivers you need. Thankfully, that stops now. In FreeBSD Device Drivers, Joseph Kong will teach you how to master everything from the basics of building and running loadable kernel modules to more complicated topics like thread synchronization. After a crash course in the different FreeBSD driver frameworks, extensive tutorial sections dissect real-world drivers like the parallel port printer driver. You'll learn: –All about Newbus, the infrastructure used by FreeBSD to manage the hardware devices on your system –How to work with ISA, PCI, USB, and other buses –The best ways to control and communicate with the hardware devices from user space –How to use Direct Memory Access (DMA) for maximum system performance –The inner workings of the virtual null modem terminal driver, the USB printer driver, the Intel PCI Gigabit Ethernet adapter driver, and other important drivers –How to use Common Access Method (CAM) to manage host bus adapters (HBAs) Concise descriptions and extensive annotations walk you through

the many code examples. Don't waste time searching man pages or digging through the kernel sources to figure out how to make that arcane bit of hardware work with your system. FreeBSD Device Drivers gives you the framework that you need to write any driver you want, now.

Writing Windows WDM Device Drivers Chris Cant,1999-01-07 Master the new Windows Driver Model (WDM) common to Windows 98 and Windows 2000. You get theory, instruction and practice in driver development, installation and debugging. Addresses hardware and software interface issues, driver types, and a description of the new 'layer' model of WDM. ;

Writing Windows VxDs and Device Drivers Karen Hazzah,1996-01-12 Software developer and author Karen Hazzah expands her original treatise on device drivers in the second edition of Writing Windows VxDs and Device Drivers. The book and companion disk include the author's library of wrapper functions that allow the progr

Writing Windows Device Drivers Daniel A. Norton,1992 This book explains device drivers and how to write them for the Windows environment. It explains the differences between DOS and Windows drivers, then details the different Windows operating modes and the three types of Windows device drivers--system, printer, and virtual.

Pro Windows Embedded Compact 7 Abraham Kcholi,2012-02-24 Windows Embedded Compact 7 is the natural choice for developing sophisticated, small-footprint devices for both consumers and the enterprise. For this latest version, a number of significant enhancements have been made, most notably the ability to run multi-core processors and address more than the 512 MB of memory constraint in previous versions. Using familiar developer tools, Pro Windows Embedded Compact 7 will take you on a deep-dive into device driver development. You'll learn how

to set up your working environment, the tools that you'll need and how to think about developing for small devices before quickly putting theory into practice and developing your own first driver from the ground up. As you delve deeper into the details of driver development, you'll learn how to master hardware details, deal with I/O and interrupts, work with networks, and test and debug your drivers ready for deployment—all in the company of an author who's been working with Windows CE for more than a decade. Packed with code samples, Pro Windows Embedded Compact 7 contains everything you'll need to start developing for small footprint devices with confidence.

Networking Device Drivers Sanjay Dhawan,1995 The only book available on networking device drivers, this book describes the various network device driver architectures and covers the most common ones in great detail--including NDIS, 3COM and Microsoft; ODI from Novell; Packet Driver from Ftp Software; and DLPI from USL, Inc. Popular network operating systems are also covered from the device driver standpoint.

Developing Windows NT Device Drivers Edward N. Dekker,Joseph M. Newcomer,1999 For developers who must know and understand the fundamentals to be able to apply the more advanced aspects that will emerge with NT 5, here is an in-depth book to the rescue, covering the core techniques of programming NT device drivers.

Developing Drivers with the Windows Driver Foundation Penny Orwick,Guy Smith,2007-04-25 Start developing robust drivers with expert guidance from the teams who developed Windows Driver Foundation. This comprehensive book gets you up to speed quickly and goes beyond the fundamentals to help you extend your Windows development skills. You get best practices, technical guidance, and extensive code samples to help you master

the intricacies of the next-generation driver model—and simplify driver development. Discover how to: Use the Windows Driver Foundation to develop kernel-mode or user-mode drivers Create drivers that support Plug and Play and power management—with minimal code Implement robust I/O handling code Effectively manage synchronization and concurrency in driver code Develop user-mode drivers for protocol-based and serial-bus-based devices Use USB-specific features of the frameworks to quickly develop drivers for USB devices Design and implement kernel-mode drivers for DMA devices Evaluate your drivers with source code analysis and static verification tools Apply best practices to test, debug, and install drivers PLUS—Get driver code samples on the Web

Linux Device Driver Development John Madieu,2022-04-21 Get up to speed with the most important concepts in driver development and focus on common embedded system requirements such as memory management, interrupt management, and locking mechanisms Key FeaturesWrite feature-rich and customized Linux device drivers for any character, SPI, and I2C deviceDevelop a deep understanding of locking primitives, IRQ management, memory management, DMA, and so onGain practical experience in the embedded side of Linux using GPIO, IIO, and input subsystemsBook Description Linux is by far the most-used kernel on embedded systems. Thanks to its subsystems, the Linux kernel supports almost all of the application fields in the industrial world. This updated second edition of Linux Device Driver Development is a comprehensive introduction to the Linux kernel world and the different subsystems that it is made of, and will be useful for embedded developers from any discipline. You'll learn how to configure, tailor, and build the Linux kernel. Filled with real-world examples, the book covers each of the

most-used subsystems in the embedded domains such as GPIO, direct memory access, interrupt management, and I2C/SPI device drivers. This book will show you how Linux abstracts each device from a hardware point of view and how a device is bound to its driver(s). You'll also see how interrupts are propagated in the system as the book covers the interrupt processing mechanisms in-depth and describes every kernel structure and API involved. This new edition also addresses how not to write device drivers using user space libraries for GPIO clients, I2C, and SPI drivers. By the end of this Linux book, you'll be able to write device drivers for most of the embedded devices out there. What you will learnDownload, configure, build, and tailor the Linux kernelDescribe the hardware using a device treeWrite feature-rich platform drivers and leverage I2C and SPI busesGet the most out of the new concurrency managed workqueue infrastructureUnderstand the Linux kernel timekeeping mechanism and use time-related APIsUse the regmap framework to factor the code and make it genericOffload CPU for memory copies using DMAInteract with the real world using GPIO, IIO, and input subsystemsWho this book is for This Linux OS book is for embedded system and embedded Linux enthusiasts/developers who want to get started with Linux kernel development and leverage its subsystems. Electronic hackers and hobbyists interested in Linux kernel development as well as anyone looking to interact with the platform using GPIO, IIO, and input subsystems will also find this book useful.

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management, kernel caching, advanced IRQ management, and so on. Practical experience on the embedded side of Linux Who This Book Is For This book will help anyone who wants to get started with developing their own Linux device drivers for embedded systems. Embedded Linux users will benefit highly from this book. This book covers all about device driver development, from char drivers to network device drivers to memory management. What You Will Learn Use kernel facilities to develop powerful drivers Develop drivers for widely used I2C and SPI devices and use the regmap API Write and support devicetree from within your drivers Program advanced drivers for network and frame buffer devices Delve into the Linux irqdomain API and write interrupt controller drivers Enhance your skills with regulator and PWM frameworks Develop measurement system drivers with IIO framework Get the best from memory management and the DMA subsystem Access and manage GPIO subsystems and develop GPIO controller drivers In Detail Linux kernel is a complex, portable, modular and widely used piece of software, running on around 80% of servers and embedded systems in more than half of devices throughout the World. Device drivers play a critical role in how well a Linux system performs. As Linux has turned out to be one of the most popular operating systems used, the interest in developing proprietary device drivers is also increasing steadily. This book will initially help you understand the basics of drivers as well as prepare for the long journey through the Linux Kernel. This book then covers drivers development based on various Linux subsystems such as memory management, PWM, RTC, IIO, IRQ management, and so on. The book also offers a practical approach on direct memory access and network device drivers. By the end of this book, you will be comfortable with the concept of device driver

development and will be in a position to write any device driver from scratch using the latest kernel version (v4.13 at the time of writing this book). Style and approach A set of engaging examples to develop Linux device drivers

   Writing Device Drivers Timothy Francis Burke,Mark Alan Parenti,Alphonse Joseph Wojtas,1995 For users of the Digital UNIX (formerly DEC OSF/1) operating system, as well as for systems engineers interested in writing UNIX-based device drivers. Discusses how to write device drivers for computer systems running the Digital UNIX operating system. In addition, the volume provides information on designing drivers, UNIX-based data structures, and OSF-based kernel interfaces. Annotation copyright by Book News, Inc., Portland, OR

   Linux Device Driver Development Cookbook Rodolfo Giometti,2019-05-31 Over 30 recipes to develop custom drivers for your embedded Linux applications. Key FeaturesUse Kernel facilities to develop powerful driversVia a practical approach, learn core concepts of developing device driversProgram a custom character device to get access to kernel internalsBook Description Linux is a unified kernel that is widely used to develop embedded systems. As Linux has turned out to be one of the most popular operating systems used, the interest in developing proprietary device drivers has also increased. Device drivers play a critical role in how the system performs and ensures that the device works in the manner intended. By offering several examples on the development of character devices and how to use other kernel internals, such as interrupts, kernel timers, and wait queue, as well as how to manage a device tree, you will be able to add proper management for custom peripherals to your embedded system. You will begin by installing the Linux kernel and then configuring it. Once you have installed the system, you

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The Windows 2000 Device Driver Book Art Baker,Jerry Lozano,2001 An authoritative guide to Windows NT driver development, now completely revised and updated. The CD-ROM includes all source code, plus Microsoft hardware standards documents, demo software, and more.

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

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Mastering Linux Device Driver Development John Madieu,2021-01-08 Master the art of developing customized device drivers for your embedded Linux systems Key FeaturesStay up to date with the Linux PCI, ASoC, and V4L2 subsystems and write device drivers for themGet to grips with the Linux kernel power management infrastructureAdopt a practical approach to customizing your Linux environment using best practicesBook Description Linux is one of the fastest-growing operating systems around the world, and in the last few years, the Linux kernel has evolved significantly to support a wide variety of embedded devices with its improved subsystems and a range of new features. With this book, you'll find out how you can enhance your skills to write custom device drivers for your Linux operating system. Mastering Linux Device Driver Development provides complete coverage of kernel topics, including video and audio frameworks, that usually go unaddressed. You'll work with some of the most complex and impactful Linux kernel frameworks, such as PCI, ALSA for SoC, and Video4Linux2, and discover expert tips and best practices along the way. In addition to this, you'll understand how to make the most of frameworks such as NVMEM and Watchdog. Once you've got to grips with Linux kernel helpers, you'll advance to working with special device types such as Multi-Function Devices (MFD) followed by video and audio device drivers. By the end of this book, you'll be able to write feature-rich device drivers

and integrate them with some of the most complex Linux kernel frameworks, including V4L2 and ALSA for SoC. What you will learnExplore and adopt Linux kernel helpers for locking, work deferral, and interrupt managementUnderstand the Regmap subsystem to manage memory accesses and work with the IRQ subsystemGet to grips with the PCI subsystem and write reliable drivers for PCI devicesWrite full multimedia device drivers using ALSA SoC and the V4L2 frameworkBuild power-aware device drivers using the kernel power management frameworkFind out how to get the most out of miscellaneous kernel subsystems such as NVMEM and WatchdogWho this book is for This book is for embedded developers, Linux system engineers, and system programmers who want to explore Linux kernel frameworks and subsystems. C programming skills and a basic understanding of driver development are necessary to get started with this book.

The Windows NT Device Driver Book Art Baker,1997 This is a guide book with software for programmers writing device drivers for Windows NT. This is the only book and sample software available on Device Drivers--NT.

Writing OpenVMS Alpha Device Drivers in C Margie Sherlock,Leonard S. Szubowicz,1996 This book contains two parts--a Developer's Guide on how to write the software for the device driver and AXP (Alpha) processor and how to load the driver into the Open VMS AXP operating system. The Reference Manual section of the book describes the data structures, macros, and routines used in OpenVMS AXP device driver programming.

Programming the Microsoft Windows Driver Model Walter Oney,2003 The Microsoft Windows driver model (WDM) supports Plug and Play, provides power management capabilities, and expands on the

driver/minidriver approach. Written by long-time device-driver expert Walter Oney in cooperation with the Windows kernel team, this book provides extensive practical examples, illustrations, advice, and line-by-line analysis of code samples to clarify real-world driver-programming issues. And it's been updated with the latest details about the driver technologies in Windows XP and Windows 2000, plus more information about how to debug drivers. Topics covered include: Beginning a driver project and the structure of a WDM driver; NEW: Minidrivers and class drivers, driver taxonomy, the WDM development environment and tools, management checklist, driver selection and loading, approved API calls, and driver stacks Basic programming techniques; NEW: Safe string functions, memory limits, the Driver Verifier scheme and tags, the kernel handle flag, and the Windows 98 floating-point problem Synchronization; NEW: Details about the interrupt request level (IRQL) scheme, along with Windows 98 and Windows Me compatibility The I/O request packet (IRP) and I/O control operations; NEW: How to send control operations to other drivers, custom queue implementations, and how to handle and safely cancel IRPs Plug and Play for function drivers; NEW: Controller and multifunction devices, monitoring device removal in user mode, Human Interface Devices (HID), including joysticks and other game controllers, minidrivers for non-HID devices, and feature reports Reading and writing data, power management, and Windows Management Instrumentation (WMI) NEW: System wakeup, the WMI control for idle detection, and using WMIMOFCK Specialized topics and distributing drivers; NEW: USB 2.0, selective suspend, Windows Hardware Quality Lab (WHQL) certification, driver selection and loading, officially approved API calls, and driver stacks COVERS WINDOWS 98, WINDOWS ME, WINDOWS 2000, AND WINDOWS XP! CD-

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