Linux device driver development cookbook pdf

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This is the code repository for Linux Device Driver Development Cookbook, published by Packt. Develop custom drivers for your embedded Linux applications What is this book about? Device drivers play a critical role in how the system performs and ensures that the device works in the intended way. With a recipe based approach this book gives you practical recipes on character drivers and related kernel internals. It shows you how to start writing Linux device drivers and tools to understand, debug or modify them. This book covers the following exciting features: Become familiar with the latest kernel releases (4.19+/5.x) running on the ESPRESSObin devkit, an ARM 64-bit machine Download, configure, modify, and build kernel sources Add and remove a device driver or a module from the kernel Master kernel programming Understand how to implement character drivers to manage different kinds of computer peripheral Become well versed with kernel helper functions and objects that can be used to build kernel applications Acquire a knowledge of in-depth concepts to manage custom hardware with Linux from both the kernel and user space If you feel this book is for you, get your copy today! Instructions and Navigations All of the code is organized into folders. For example, Chapter02. The code will look like the following: [3.421397] mvneta d0030000.ethernet eth0: Using random mac address 3e:a1:6b: f5:c3:2f Following is what you need for this book: This book will help anyone who wants to develop their own Linux device drivers for embedded systems. Having basic hand-on with Linux operating system and embedded concepts is necessary. With the following software and hardware list you can run all code files present in the book (Chapter 1-9). Software and Hardware List Chapter Software required OS required 1-7 Text editor such as vi , emacs, or nano Ubuntu 18.04.1 LTS Linux, Windows, macOS We also provide a PDF file that has color images of the screenshots/diagrams used in this book. Click here to download it. 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GNU/Linux Rapid Embedded Programming Suggestions and Feedback Click here if you have any feedback or suggestions. Showing 1-15 Start your review of Linux Device Driver Development Cookbook: Develop custom drivers for your embedded Linux applications Emrah Ali is currently reading it Sep 26, 2019 Walid marked it as to-read Oct 19, 2019 Sanker marked it as to-read Jun 22, 2020 Michael H is currently reading it Jul 24, 2020 Manali marked it as to-read Aug 19, 2020 Tom marked it as to-read Nov 22, 2020 Raghu marked it as to-read Oct 23, 2021 pleder marked it as to-read May 15, 2022 Over 30 recipes to develop custom drivers for your embedded Linux applications. Key FeaturesUse Kernel facilities to develop powerful drivers Via a practical approach, learn core concepts of developing device drivers Program a custom character device to get access to kernel internals Book DescriptionLinux 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 will learn to use the different kernel features and the character drivers. You will also cover interrupts in-depth and how you can manage them. Later, you will get into the kernel internals required for developing applications. Next, you will implement advanced character drivers and also become an expert in writing important Linux device drivers. By the end of the book, you will be able to easily write a custom character driver and kernel code as per your requirements. What you will learnBecome familiar with the latest kernel releases (4.19+/5.x) running on the ESPRESSObin devkit, an ARM 64-bit machine Download, configure, modify, and build kernel sources Add and remove a device driver or a module from the kernel Master kernel programming Understand how to implement character drivers to manage different kinds of computer peripherals Become well versed with kernel helper functions and objects that can be used to build kernel applications Acquire a knowledge of in-depth concepts to manage custom hardware with Linux from both the kernel and user spaceWho this book is forThis book will help anyone who wants to develop their own Linux device drivers for embedded systems. Having basic hand-on with Linux operating system and embedded concepts is necessary.Table of ContentsInstalling the developing systemA Peek Inside the KernelWorking with Char driversUsing the Device TreeManaging Interrupts and ConcurrencyMiscellaneous Kernel InternalsAdvanced Char Driver Operations(Appendix A): Additional Information on Working with Char Drivers(Appendix B): Additional Information on using the Device Tree(Appendix C): Additional Information on managing Interrupts and Concurrency on(Appendix D): Additional Information on miscellaneous Kernel Internals(Appendix E): Additional Information on advanced Char Driver Operations 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 DescriptionLinux is a unified kernel that is widely used to develop embedded systems. 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