



Embedded FreeBSD cookbook

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Electronic books

Monografía

The FreeBSD operating system has become a popular OS choice for embedded systems due to its small size and the fact that it is free to users. However, detailed information on using FreeBSD is difficult to find. Author Paul Cevoli, an experienced embedded systems engineer, answers that need in this cookbook aimed at making life easier for engineers working with FreeBSD. Topics covered in the book include core operating system components, processes, process scheduling, virtual memory, device drivers and debugging, as these are the core features necessary for embedded system developers. The core

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Título: Embedded FreeBSD cookbook electronic resource] by Paul Cevoli

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Nota general: Description based upon print version of record

Contenido: Front Cover; Embedded FreeBSD Cookbook; Copyright Page; Contents; Preface; Chapter 1. Getting Started; Overview; Embedded Systems; Internet Appliances; The DIO Server Appliance; Summary; Chapter 2. Systems Programming; Overview; Process; Daemons; Summary; Chapter 3. System Calls; Overview; Library Functions and System Calls; Creating a System Call; Summary; Chapter 4. Device Drivers; Overview; Driver Environment; Driver Structure; The DIO24 Device Driver; Summary; Chapter 5. Midlevel Interface Library; Overview; Shared Libraries; Accessing the Device Driver; PCI-DIO24 Hardware Registers The DIO24 Application Interface LibrarySummary; Chapter 6. Daemons; Overview; Introduction to TCP/IP; Socket System Calls; The DIO Daemon; Summary; Chapter 7. Remote Management; Overview; Using Secure Shell (SSH); The DIOShell; Summary; Chapter 8. JNI Layer; Overview; The JDK; Creating the JNI Layer; Summary; Chapter 9. Web Access Using Tomcat; Overview; Tomcat; The JSP Overview; The DIO JSP Page; Summary; Chapter 10. Building the Kernel; Overview; Building the DIO Kernel; Building the FreeBSD Kernel; Summary; Chapter 11. System Startup; Overview; Disk Geometry; Master Boot Record; PC BIOS FreeBSD Boot LoaderStarting DIO Components; Summary; Chapter 12. The CompactFlash Boot Device; Overview; Solid-State Devices; Installing the TARC CompactFlash Adapter; Configuring the CompactFlash Device; Copying the Files to the Boot Device; Startup

Configuration; Summary; Appendix A. The FreeBSD License; Appendix B. PCI Configuration; Appendix C. Kernel Loadable Modules; Index

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