

Linux Kernel Development

A thorough guide to the design and implementation of the Linux kernel

Developer's Library

Linux Kernel Development Love Robert Love

Robert Love

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portability concerns and debugging techniques This book covers the most interesting features of the Linux 2 6 kernel including the CFS scheduler preemptive kernel block I O layer and I O schedulers The third edition of Linux Kernel Development includes new and updated material throughout the book An all new chapter on kernel data structures Details on interrupt handlers and bottom halves Extended coverage of virtual memory and memory allocation Tips on debugging the Linux kernel In depth coverage of kernel synchronization and locking Useful insight into submitting kernel patches and working with the Linux kernel community Linux System Programming Robert Love, 2007-09-18 This book is about writing software that makes the most effective use of the system you re running on code that interfaces directly with the kernel and core system libraries including the shell text editor compiler debugger core utilities and system daemons The majority of both Unix and Linux code is still written at the system level and Linux System Programming focuses on everything above the kernel where applications such as Apache bash cp vim Emacs gcc gdb glibc ls mv and X exist Written primarily for engineers looking to program better at the low level this book is an ideal teaching tool for any programmer Even with the trend toward high level development either through web software such as PHP or managed code C someone still has to write the PHP interpreter and the C virtual machine Linux System Programming gives you an understanding of core internals that makes for better code no matter where it appears in the stack Debugging high level code often requires you to understand the system calls and kernel behavior of your operating system too Key topics include An overview of Linux the kernel the C library and the C compiler Reading from and writing to files along with other basic file I O operations including how the Linux kernel implements and manages file I O Buffer size management including the Standard I O library Advanced I O interfaces memory mappings and optimization techniques The family of system calls for basic process management Advanced process management including real time processes File and directories creating moving copying deleting and managing them Memory management interfaces for allocating memory managing the memory youhave and optimizing your memory access Signals and their role on a Unix system plus basic and advanced signal interfaces Time sleeping and clock management starting with the basics and continuing through POSIX clocks and high resolution timers With Linux System Programming you will be able to take an in depth look at Linux from both a theoretical and an applied perspective as you cover a wide range of programming topics <u>Linux System Programming, 2nd Edition</u> Robert Love, 2013 Node.is. MongoDB, and Angular S Web Development Brad Dayley, 2014-06-05 The definitive guide to building JavaScript based Web applications from server to browser Node js MongoDB and AngularJS are three new web development technologies that together provide an easy to implement fully integrated web development stack Node is a leading server side programming environment MongoDB is the most popular NoSQL database and Angular is quickly becoming the leading framework for MVC based front end development Together they allow web programmers to create high performance sites and applications built completely in JavaScript from server to client Node is MongoDB and AngularJS Web Development is a complete guide for

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that is no longer relevant keeping it taut and current If you re a Unix user or programmer you ll recognize the value of this complete up to date Unix reference With chapter overviews specific examples and detailed command **Programming Cookbook** Onorato Vaticone, 2020-02-21 A problem solution based guide to help you overcome hurdles effectively while working with kernel APIs filesystems networks threads and process communications Key Features Learn to apply the latest C features from C 11 14 17 and 20 to facilitate systems programming Create robust and concurrent systems that make the most of the available hardware resources Delve into C inbuilt libraries and frameworks to design robust systems as per your business needs Book DescriptionC is the preferred language for system programming due to its efficient low level computation data abstraction and object oriented features System programming is about designing and writing computer programs that interact closely with the underlying operating system and allow computer hardware to interface with the programmer and the user The C System Programming Cookbook will serve as a reference for developers who want to have ready to use solutions for the essential aspects of system programming using the latest C standards wherever possible This C book starts out by giving you an overview of system programming and refreshing your C knowledge Moving ahead you will learn how to deal with threads and processes before going on to discover recipes for how to manage memory The concluding chapters will then help you understand how processes communicate and how to interact with the console console I O Finally you will learn how to deal with time interfaces signals and CPU scheduling By the end of the book you will become adept at developing robust systems applications using C What you will learn Get up to speed with the fundamentals including makefile man pages compilation and linking and debugging Understand how to deal with time interfaces signals and CPU scheduling Develop your knowledge of memory management Use processes and threads for advanced synchronizations mutexes and condition variables Understand interprocess communications IPC pipes FIFOs message queues shared memory and TCP and UDP Discover how to interact with the console console I O Who this book is for This book is for C developers who want to gain practical knowledge of systems programming Though no experience of Linux system programming is assumed intermediate knowledge of C is necessary **Programming in CoffeeScript** Mark Bates, 2012 Use CoffeeScript to Write Better JavaScript Code Than Ever Before If you can do it in JavaScript you can do it better in CoffeeScript And since CoffeeScript compiles down to JavaScript your code will fit neatly into virtually any web environment In Programming in CoffeeScript Mark Bates shows web developers why CoffeeScript is so useful and how it avoids the problems that often make JavaScript code buggy and unmanageable He guides you through every feature and technique you need to write quality CoffeeScript code and shows how to take advantage of CoffeeScript s increasingly robust toolset Bates begins with the absolute basics of running and compiling CoffeeScript and then introduces syntax control structures functions collections and classes Through same page code comparisons you ll discover exactly how CoffeeScript improves on JavaScript Next you ll put it to work in building applications that are powerful flexible maintainable concise

reliable and secure Bates shares valuable tips for better development illuminating CoffeeScript s hidden gems and warning you about its remaining rough edges The book concludes with a start to finish application case study showing how to code back ends and front ends and integrate powerful frameworks and libraries Coverage includes Understanding the right ways to compile and execute CoffeeScript Using CoffeeScript s clean syntax to focus on your code not JavaScript s distractions Working with CoffeeScript s control structures functions and arguments Taking full advantage of CoffeeScript s implementation of collections and iterators Leveraging CoffeeScript s full class support to create complex data models Automating common application development tasks with Cake and Cakefiles Configuring Jasmine with CoffeeScript support and using it to systematically test your code Writing Node js server side applications in CoffeeScript Using CoffeeScript to write jQuery and Backbone js applications Integrating framework code to avoid reinventing the wheel Want a better way to create the JavaScript code your web applications need CoffeeScript is the solution and this book will help you master it

Easy Linux Device Driver, Second Edition Mahesh Sambhaji Jadhav, 2014-03-13 Easy Linux Device Driver First Step Towards Device Driver Programming Easy Linux Device Driver book is an easy and friendly way of learning device driver 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 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 device driver expertise Topics covered Introduction of Linux Advantages of Linux History of Linux Architecture of Linux Definations Ubuntu installation Ubuntu Installation Steps User Interface Difference About KNOPPIX Important links Terminal Soul of Linux Creating Root account Terminal Commands 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 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 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 snippets Summary of file operations PCI Device Driver Direct Memory Access Module Device Table Code for Basic Device Driver Important code snippets USB Device Driver Fundamentals Architecture of USB device driver USB Device Driver program Structure of USB Device Driver Parts of USB end points Importent features USB information Driver USB device Driver File Operations Using URB Simple data transfer Program to read and write Important code snippets Gadget Driver Complete USB Device Driver Program Skeleton Driver Program Special 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 buffer concept Framebuffer Data Structure Check and set Parameter Accelerated Method Display Driver summary Memory Allocation Kmalloc Vmalloc Ioremap Interrupt Handling interrupt registration Proc interface Path of interrupt Programming Tips Softirqs Tasklets Work Queues I O Control Introducing ioctl Prototype Stepwise execution of ioctl Sample Device Driver Complete memory Driver Complete Parallel Port Driver Device Driver Debugging Data Display Debugger Graphical Display Debugger Kernel Graphical Debugger Appendix I Exported Symbols Kobjects Ksets and Subsystems DMA I O

Programming in Python 3 Mark Summerfield, 2008-12-16 Python 3 is the best version of the language yet It is more powerful convenient consistent and expressive than ever before Now leading Python programmer Mark Summerfield demonstrates how to write code that takes full advantage of Python 3 s features and idioms The first book written from a completely Python 3 viewpoint Programming in Python 3 brings together all the knowledge you need to write any program use any standard or third party Python 3 library and create new library modules of your own Summerfield draws on his many years of Python experience to share deep insights into Python 3 development you won t find anywhere else He begins by illuminating Python's beautiful heart the eight key elements of Python you need to write robust high performance programs Building on these core elements he introduces new topics designed to strengthen your practical expertise one concept and hands on example at a time This book's coverage includes Developing in Python using procedural object oriented and functional programming paradigms Creating custom packages and modules Writing and reading binary text and XML files including optional compression random access and text and XML parsing Leveraging advanced data types collections control structures and functions Spreading program workloads across multiple processes and threads Programming SQL databases and key value DBM files Utilizing Python's regular expression mini language and module Building usable efficient GUI based applications Advanced programming techniques including generators function and class decorators context managers descriptors abstract base classes metaclasses and more Programming in Python 3 serves as both tutorial and language reference and it is accompanied by extensive downloadable example code all of it tested with the final version of Python 3 on Windows Linux and Mac OS X **Programming in Objective-C** Stephen G. Kochan, 2011-06-10 Programming in Objective C is a concise carefully written tutorial on the basics of Objective C and object oriented programming for the iOS and Mac platforms The book makes no assumptions about prior experience with object oriented programming languages or with the C language which Objective C is based upon Because of this both beginners and experienced programmers alike can use this book to quickly and effectively learn the fundamentals of Objective C Readers can also learn the concepts of object oriented programming without having to first learn all of the intricacies of the underlying procedural language C This unique approach to learning combined with many small program examples and exercises at the end of each chapter makes Programming in Objective C ideally suited for either classroom use or self study While the Objective C language itself has gone through relatively minor changes since the introduction of Objective C 2 0 the Apple development tools that

programmers use for Objective C development on the Mac and on iOS have changed significantly in a very short period of time The third edition of Programming in Objective C includes numerous updates and improvements throughout the book Improved organization for some chapters Incorporation of feedback and suggestions from members of the author's forum for readers including more detailed descriptions for some of the examples A new introduction to blocks with examples Replacement of deprecated methods with newer methods Updated diagrams and steps for using Xcode 4 Objective-C 2.0 Stephen G. Kochan, 2008-12-29 THE 1 BESTSELLING BOOK ON OBJECTIVE C 2.0 Programming in Objective C 2 0 provides the new programmer a complete step by step introduction to Objective C the primary language used to develop applications for the iPhone iPad and Mac OS X platforms The book does not assume previous experience with either C or object oriented programming languages and it includes many detailed practical examples of how to put Objective C to use in your everyday iPhone iPad or Mac OS X programming tasks A powerful yet simple object oriented programming language that s based on the C programming language Objective C is widely available not only on OS X and the iPhone iPad platform but across many operating systems that support the gcc compiler including Linux Unix and Windows systems The second edition of this book thoroughly covers the latest version of the language Objective C 2 0 And it shows not only how to take advantage of the Foundation framework s rich built in library of classes but also how to use the iPhone SDK to develop programs designed for the iPhone iPad platform Table of Contents 1 Introduction Part I The Objective C 2 0 Language 2 Programming in Objective C 3 Classes Objects and Methods 4 Data Types and Expressions 5 Program Looping 6 Making Decisions 7 More on Classes 8 Inheritance 9 Polymorphism Dynamic Typing and Dynamic Binding 10 More on Variables and Data Types 11 Categories and Protocols 12 The Preprocessor 13 Underlying C Language Features Part II The Foundation Framework 14 Introduction to the Foundation Framework 15 Numbers Strings and Collections 16 Working with Files 17 Memory Management 18 Copying Objects 19 Archiving Part III Cocoa and the iPhone SDK 20 Introduction to Cocoa 21 Writing iPhone Applications Part IV Appendixes A Glossary B Objective C 2 0 Language Summary C Address Book Source Code D Resources **Programming in C** Stephen G. Kochan, 2015 Introduces the C programming language covering such topics as language fundamentals variables data types arithmetic expressions program looping functions and arrays with complete C programs to illustrate each new concept discussed Linux Device Drivers Jonathan Corbet, Alessandro Rubini, Greg Kroah-Hartman, 2005-02-07 Device drivers literally drive everything you re interested in disks monitors keyboards modems everything outside the computer chip and memory And writing device drivers is one of the few areas of programming for the Linux operating system that calls for unique Linux specific knowledge For years now programmers have relied on the classic Linux Device Drivers from O Reilly to master this critical subject Now in its third edition this bestselling guide provides all the information you ll need to write drivers for a wide range of devices Over the years the book has helped countless programmers learn how to support computer peripherals under the Linux operating system how to develop and

write software for new hardware under Linux the basics of Linux operation even if they are not expecting to write a driver. The new edition of Linux Device Drivers is better than ever The book covers all the significant changes to Version 2 6 of the Linux kernel which simplifies many activities and contains subtle new features that can make a driver both more efficient and more flexible Readers will find new chapters on important types of drivers not covered previously such as consoles USB drivers and more Best of all you don't have to be a kernel hacker to understand and enjoy this book All you need is an understanding of the C programming language and some background in Unix system calls And for maximum ease of use the book uses full featured examples that you can compile and run without special hardware Today Linux holds fast as the most rapidly growing segment of the computer market and continues to win over enthusiastic adherents in many application areas. With this increasing support Linux is now absolutely mainstream and viewed as a solid platform for embedded systems If you re writing device drivers you ll want this book In fact you ll wonder how drivers are ever written without it

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