Linux System Programming 2nd Edition

Jason Hunter,William Crawford

Linux System Programming 2nd Edition:

Linux System Programming, 2nd Edition Robert Love,2013 *Linux System Programming* Robert Love,2013-05-14 Write software that draws directly on services offered by the Linux kernel and core system libraries With this comprehensive book Linux kernel contributor Robert Love provides you with a tutorial on Linux system programming a reference manual on Linux system calls and an insider s guide to writing smarter faster code Love clearly distinguishes between POSIX standard functions and special services offered only by Linux With a new chapter on multithreading this updated and expanded edition provides an in depth look at Linux from both a theoretical and applied perspective over a wide range of programming topics including A Linux kernel C library and C compiler overview Basic I O operations such as reading from and writing to files 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 Thread concepts multithreaded programming and Pthreads File and directory management Interfaces for allocating memory and optimizing memory access Basic and advanced signal interfaces and their role on the system Clock management including POSIX clocks and high resolution timers *Hands-On System Programming with Linux* Kaiwan N Billimoria,2018-10-31 Get up and running with system programming concepts in Linux Key FeaturesAcquire insight on Linux system architecture and its programming interfacesGet to grips with core concepts such as process management signalling and pthreadsPacked with industry best practices and dozens of code examplesBook Description The Linux OS and its embedded and server applications are critical components of today s software infrastructure in a decentralized networked universe The industry s demand for proficient Linux developers is only rising with time Hands On System Programming with Linux gives you a solid theoretical base and practical industry relevant descriptions and covers the Linux system programming domain It delves into the art and science of Linux application programming system architecture process memory and management signaling timers pthreads and file IO This book goes beyond the use API X to do Y approach it explains the concepts and theories required to understand programming interfaces and design decisions the tradeoffs made by experienced developers when using them and the rationale behind them Troubleshooting tips and techniques are included in the concluding chapter By the end of this book you will have gained essential conceptual design knowledge and hands on experience working with Linux system programming interfaces What you will learnExplore the theoretical underpinnings of Linux system architectureUnderstand why modern OSes use virtual memory and dynamic memory APIsGet to grips with dynamic memory issues and effectively debug themLearn key concepts and powerful system APIs related to process managementEffectively perform file IO and use signaling and timersDeeply understand multithreading concepts pthreads APIs synchronization and schedulingWho this book is for Hands On System Programming with Linux is for Linux system engineers programmers or anyone who wants to go beyond using an API set to understanding the theoretical underpinnings and concepts behind powerful Linux system

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programmers are in demand to write highly optimized systems programming code Created by some of the original designers of C and Unix Go expands the systems programmers toolkit and adds a mature clear programming language Traditional system applications become easier to write since pointers are not relevant and garbage collection has taken away the most problematic area for low level systems code memory management This book opens up the world of high performance Unix system applications to the beginning Go programmer It does not get stuck on single systems or even system types but tries to expand the original teachings from Unix system level programming to all types of servers the cloud and the web Style and approach This is the first book to introduce Linux and Unix systems programming in Go a field for which Go has actually been developed in the first place **Java Servlet Programming** Jason Hunter,William Crawford,1998 Java servlets offer a fast powerful portable replacement for CGI scripts This book covers everything one needs to write effective servlets Topics include serving dynamic Web content maintaining state information session tracking database connectivity using JDBC and applet servlet communication **Managing the Windows NT Registry** Paul Robichaux,1998 The Windows NT Registry is the repository for all hardware software and application configuration settings This is the system administrator s guide to maintaining monitoring and updating the Registry database Provides complete coverage of Regedit RegEdt32 and the System Policy Editor plus the Resource Kit utilities **Hands-On System Programming with Go** Alex Guerrieri,2019-07-05 Explore the fundamentals of systems programming starting from kernel API and filesystem to network programming and process communications Key FeaturesLearn how to write Unix and Linux system code in Golang v1 12Perform inter process communication using pipes message queues shared memory and semaphoresExplore modern Go features such as goroutines and channels that facilitate systems programmingBook Description System software and applications were largely created using low level languages such as C or C Go is a modern language that combines simplicity concurrency and performance making it a good alternative for building system applications for Linux and macOS This Go book introduces Unix and systems programming to help you understand the components the OS has to offer ranging from the kernel API to the filesystem and familiarize yourself with Go and its specifications You ll also learn how to optimize input and output operations with files and streams of data which are useful tools in building pseudo terminal applications You ll gain insights into how processes communicate with each other and learn about processes and daemon control using signals pipes and exit codes This book will also enable you to understand how to use network communication using various protocols including TCP and HTTP As you advance you ll focus on Go s best feature concurrency helping you handle communication with channels and goroutines other concurrency tools to synchronize shared resources and the context package to write elegant applications By the end of this book you will have learned how to build concurrent system applications using Go What you will learnExplore concepts of system programming using Go and concurrencyGain insights into Golang s internals memory models and allocationFamiliarize yourself with the filesystem and IO streams in generalHandle and control processes and daemons

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