
Interprocess Communications In Linux The Nooks And Crannies

Beginning Linux Programming
Understanding the Linux Kernel
Efficient Android Threading
The Complete Bible
Linux System Programming
Linux for Embedded and Real-time Applications
Advanced Linux Programming
UNIX Network Programming
Asynchronous Processing Techniques for Android
Applications
The Linux Programming Interface
Linux System Administration
Become a proficient Linux system programmer
using expert recipes and techniques
Linux Dictionary
Container Security
Communication, Concurrency, and Threads
OPERATING SYSTEMS
Linux System Programming Techniques
Interprocess Communications in UNIX
Systems Programming in Unix/Linux
The Design and Implementation of the FreeBSD

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The Nooks and Crannies
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Containerized Applications
Symmetric Multiprocessing and Caching for
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UNIX Systems Programming
Performance Analysis of Interprocess
Communication Mechanisms on Windows XP and
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Red Hat Linux
Programming with POSIX Threads
Solaris 10 and OpenSolaris Kernel Architecture

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Communications
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Beginning Linux
Programming Springer

Science & Business Media

This book contains comprehensive, up-to-date, and authoritative technical information on the internal structure of the FreeBSD open-source operating system. Coverage includes the capabilities of the system; how to effectively and efficiently interface to the system; how to maintain, tune, and configure the operating system; and how to extend and enhance the system. The authors provide a concise overview of FreeBSD's design and implementation. Then, while explaining key design decisions, they detail the concepts, data structures, and algorithms used in implementing the systems facilities. As a

result, this book can be used as an operating systems textbook, a practical reference, or an in-depth study of a contemporary, portable, open-source operating system. -- Provided by publisher. [Understanding the Linux Kernel](#) NOITE S.C. Software -- Operating Systems. [Efficient Android Threading](#) PHI Learning Pvt. Ltd. Numerous people still believe that learning and acquiring expertise in Linux is not easy, that only a professional can understand how a Linux system works. Nowadays, Linux has gained much popularity both at home and at the workplace. Linux Yourself: Concept and Programming aims to help and guide people

of all ages by offering a deep insight into the concept of Linux, its usage, programming, administration, and several other connected topics in an easy approach. This book can also be used as a textbook for undergraduate/postgraduate engineering students and others who have a passion to gain expertise in the field of computer science/information technology as a Linux developer or administrator. The word "Yourself" in the title refers to the fact that the content of this book is designed to give a good foundation to understand the Linux concept and to guide yourself as a good Linux professional in various platforms. There are no prerequisites to

understand the contents from this book, and a person with basic knowledge of C programming language will be able to grasp the concept with ease. With this mindset, all the topics are presented in such a way that it should be simple, clear, and straightforward with many examples and figures. Linux is distinguished by its own power and flexibility, along with open-source accessibility and community as compared to other operating systems, such as Windows and macOS. It is the author's sincere view that readers of all levels will find this book worthwhile and will be able to learn or sharpen their skills.

KEY FEATURES

Provides a deep conceptual learning and expertise in programming skill for any user about Linux, UNIX, and their features. Elaborates GUI and CUI including Linux commands, various shells, and the vi editor Details file management and file systems to understand Linux system architecture easily Promotes hands-on practices of regular expressions and advanced filters, such as sed and awk through many helpful examples Describes an insight view of shell scripting, process, thread, system calls, signal, inter-process communication, X Window System, and many more aspects to understand the system programming in the Linux environment

Gives a detailed description of Linux administration by elaborating LILO, GRUB, RPM-based package, and program installation and compilation that can be very helpful in managing the Linux system in a very efficient way Reports some famous Linux distributions to understand the similarity among all popular available Linux and other features as case studies
The Complete Bible
Firewall Media
Covering all the essential components of Unix/Linux, including process management, concurrent programming, timer and time service, file systems and network programming, this textbook emphasizes programming practice

in the Unix/Linux environment. Systems Programming in Unix/Linux is intended as a textbook for systems programming courses in technically-oriented Computer Science/Engineering curricula that emphasize both theory and programming practice. The book contains many detailed working example programs with complete source code. It is also suitable for self-study by advanced programmers and computer enthusiasts. Systems programming is an indispensable part of Computer Science/Engineering education. After taking an introductory programming course, this book is meant to further knowledge by detailing how dynamic data structures are

used in practice, using programming exercises and programming projects on such topics as C structures, pointers, link lists and trees. This book provides a wide range of knowledge about computer systems software and advanced programming skills, allowing readers to interface with operating system kernel, make efficient use of system resources and develop application software. It also prepares readers with the needed background to pursue advanced studies in Computer Science/Engineering, such as operating systems, embedded systems, databases systems, data mining, artificial intelligence, computer

networks, network security, distributed and parallel computing.

Linux System Programming

LAP
Lambert Academic Publishing

This document is designed to be a resource for those Linux users wishing to seek clarification on Linux/UNIX/POSIX related terms and jargon. At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently available. Due to the rapid rate at which new terms are being created it has been decided that this will be an active project. We welcome input into the content of this document. At this moment in time half

yearly updates are being envisaged.

Please note that if you wish to find a 'Computer Dictionary' then see the 'Computer Dictionary Project' at <http://computerdictionary.tsf.org.za/> Searchable databases exist at locations such as:

<http://www.swpearl.com/eng/scripts/dictionary/> (SWP) Sun Wah-PearL Linux Training and Development Centre is a centre of the Hong Kong Polytechnic University, established in 2000. Presently SWP is delivering professional grade Linux and related Open Source Software (OSS) technology training and consultant service in Hong Kong. SWP has an ambitious aim to promote the use of Linux and related Open

Source Software (OSS) and Standards. The vendor independent positioning of SWP has been very well perceived by the market. Throughout the last couple of years, SWP becomes the Top Leading OSS training and service provider in Hong Kong. <http://www.geona.com/dictionary?b=> Geona, operated by Gold Vision Communications, is a new powerful search engine and internet directory, delivering quick and relevant results on almost any topic or subject you can imagine. The term "Geona" is an Italian and Hebrew name, meaning wisdom, exaltation, pride or majesty. We use our own database of spidered web sites and the Open Directory

database, the same database which powers the core directory services for the Web's largest and most popular search engines and portals. Geona is spidering all domains listed in the non-adult part of the Open Directory and millions of additional sites of general interest to maintain a fulltext index of highly relevant web sites. <http://www.linuxdig.com/documents/dictionary.php> LINUXDIG.COM, "Yours News and Resource Site", LinuxDig.com was started in May 2001 as a hobby site with the original intention of getting the RFC's online and becoming an Open Source software link/download site. But since that time the site has evolved to become a

RFC distribution site, linux news site and a locally written technology news site (with bad grammer :) with focus on Linux while also containing articles about anything and everything we find interesting in the computer world. LinuxDig.Com contains about 20,000 documents and this number is growing everyday!
<http://linux.about.com/library/glossary/blglossary.htm> Each month more than 20 million people visit About.com. Whether it be home repair and decorating ideas, recipes, movie trailers, or car buying tips, our Guides offer practical advice and solutions for every day life. Wherever you land on the new About.com, you'll find other content that is relevant

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Linux for Embedded and Real-time

Applications Sams Publishing
Linux for Embedded and Real-Time Applications, Fourth Edition, provides a practical introduction to the basics, covering the latest developments in this rapidly evolving technology. Ideal for those new to the use of Linux in an embedded environment, the book takes a hands-on approach that covers key concepts of building applications in a cross-development environment. Hands-on exercises focus on the popular open source

BeagleBone Black board. New content includes graphical programming with QT as well as expanded and updated material on projects such as Eclipse, BusyBox - configuring and building, the U-Boot bootloader - what it is, how it works, configuring and building, and new coverage of the Root file system and the latest updates on the Linux kernel.. Provides a hands-on introduction for engineers and software developers who need to get up to speed quickly on embedded Linux, its operation and capabilities Covers the popular open source target boards, the BeagleBone and BeagleBone Black Includes new and updated material that

focuses on BusyBox, U-Boot bootloader and graphical programming with QT

Advanced Linux Programming

PHI Learning Pvt. Ltd. Distributed processing has a strong theoretical foundation, but many day-to-day practitioners make limited use of the advantages this theory can give them. The result includes unreliable systems with obscure and intermittent failures, that can cost time, money and in extreme cases, lives. Reliable construction of distributed and concurrent systems must incorporate theory in practice. This book provides a concise presentation of the theory closely linked to the practical realization of these

concepts. This highly practical presentation contains all the elements needed for a complete development of a distributed system. The book includes examples from C, Java and Eiffel, and sample code is available online.

UNIX Network Programming

Interprocess Communications in Linux Operating System, an integral part of any computer, is the interface between the computer users and the hardware. This comprehensive book provides the readers with the basic understanding of the theoretical and practical aspects of operating systems. The text explains the operating systems and components of

operating systems including attributes of Linux and Unix operating systems. It also discusses Android operating system and Tablet computer. The book explicates in-depth the concepts of process, threads/multithreading and scheduling and describes process synchronization, deadlocks and memory management including file access methods and directory structure. In addition, it also describes security and protection along with distributed file systems. The book is designed as a textbook for undergraduate students of Electronics and Communication Engineering, Computer Science and Engineering, and Information Technology as well as

post-graduate students of computer applications and computer science. Asynchronous Processing Techniques for Android Applications Addison-Wesley Professional UNIX, UNIX LINUX & UNIX TCL/TK. Write software that makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the system level, and this book helps you focus 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 at the low level, this updated edition of

Linux System Programming gives you an understanding of core internals that makes for better code, no matter where it appears in the stack. -- Provided by publisher.

The Linux Programming Interface
Prentice Hall Professional

"The Solaris™ Internals volumes are simply the best and most comprehensive treatment of the Solaris (and OpenSolaris) Operating Environment. Any person using Solaris--in any capacity--would be remiss not to include these two new volumes in their personal library. With advanced observability tools in Solaris (likeDTrace), you will more often find yourself in what was previously unchartable territory. Solaris™

Internals, Second Edition, provides us a fantastic means to be able to quickly understand these systems and further explore the Solaris architecture--especially when coupled with OpenSolaris source availability." --Jarod Jenson, chief systems architect, Aeysis "The Solaris™ Internals volumes by Jim Mauro and Richard McDougall must be on your bookshelf if you are interested in in-depth knowledge of Solaris operating system internals and architecture. As a senior Unix engineer for many years, I found the first edition of Solaris™ Internals the only fully comprehensive source for kernel developers, systems programmers, and systems

administrators. The new second edition, with the companion performance and debugging book, is an indispensable reference set, containing many useful and practical explanations of Solaris and its underlying subsystems, including tools and methods for observing and analyzing any system running Solaris 10 or OpenSolaris." --Marc Strahl, senior UNIX engineer Solaris™ Internals, Second Edition, describes the algorithms and data structures of all the major subsystems in the Solaris 10 and OpenSolaris kernels. The text has been extensively revised since the first edition, with more than 600 pages of new material. Integrated Solaris tools

and utilities, including DTrace, MDB, kstat, and the process tools, are used throughout to illustrate how the reader can observe the Solaris kernel in action. The companion volume, Solaris™ Performance and Tools, extends the examples contained here, and expands the scope to performance and behavior analysis. Coverage includes: Virtual and physical memory Processes, threads, and scheduling File system framework and UFS implementation Networking: TCP/IP implementation Resource management facilities and zones The Solaris™ Internals volumes make a superb reference for anyone using Solaris 10 and OpenSolaris. *Linux System*

Administration O'Reilly
Media

Authors M. Carling and Jim Dennis provide system administrators with expert advice on managing their Linux systems on a daily basis. In-depth coverage delves into the issues of integrating Linux into corporate heterogeneous network environments.

[Become a proficient Linux system programmer using expert recipes and techniques](#) Wiley

Multithreading is essential if you want to create an Android app with a great user experience, but how do you know which techniques can help solve your problem? This practical book describes many asynchronous mechanisms available

in the Android SDK, and provides guidelines for selecting the ones most appropriate for the app you're building. Author Anders Goransson demonstrates the advantages and disadvantages of each technique, with sample code and detailed explanations for using it efficiently. The first part of the book describes the building blocks of asynchronous processing, and the second part covers Android libraries and constructs for developing fast, responsive, and well-structured apps. Understand multithreading basics in Java and on the Android platform Learn how threads communicate within and between processes Use strategies to

reduce the risk of memory leaks Manage the lifecycle of a basic thread Run tasks sequentially in the background with HandlerThread Use Java's Executor Framework to control or cancel threads Handle background task execution with AsyncTask and IntentService Access content providers with AsyncQueryHandler Use loaders to update the UI with new data

Linux Dictionary No Starch Press

Interprocess Communications in Linux Prentice Hall Professional

Container Security Newnes

bull; Learn UNIX essentials with a concentration on communication, concurrency, and multithreading

techniques bull; Full of ideas on how to design and implement good software along with unique projects throughout bull; Excellent companion to Stevens' Advanced UNIX System Programming

Communication, Concurrency, and Threads Pearson Education

The book, now in its Fifth Edition, aims to provide a practical view of GNU/Linux and Windows 7, 8 and 10, covering different design considerations and patterns of use. The section on concepts covers fundamental principles, such as file systems, process management, memory management, input-output, resource sharing, inter-process communication (IPC), distributed computing,

OS security, real-time and microkernel design. This thoroughly revised edition comes with a description of an instructional OS to support teaching of OS and also covers Android, currently the most popular OS for handheld systems. Basically, this text enables students to learn by practicing with the examples and doing exercises. **NEW TO THE FIFTH EDITION**

- Includes the details on Windows 7, 8 and 10
- Describes an Instructional Operating System (PintOS), FEDORA and Android

The following additional material related to the book is available at www.phindia.com/bhat

- t. o Source Code
- Control System in UNIX
- o X-Windows in UNIX
- o System Administration

- in UNIX
- o VxWorks Operating System (full chapter)
- o OS for handheld systems, excluding Android
- o The student projects
- o Questions for practice for selected chapters

TARGET AUDIENCE

- BE/B.Tech (Computer Science and Engineering and Information Technology)
- M.Sc. (Computer Science)
- BCA/MCA

OPERATING SYSTEMS Prentice Hall

Learn shell scripting to solve complex shell-related problems and to efficiently automate your day-to-day tasks

About This Book

Familiarize yourself with the terminal by learning about powerful shell features

Automate tasks by writing shell scripts for repetitive work

Packed

with easy-to-follow, hands-on examples to help you write any type of shell script with confidence Who This Book Is For This book is aimed at administrators and those who have a basic knowledge of shell scripting and who want to learn how to get the most out of writing shell scripts. What You Will Learn Write effective shell scripts easily Perform search operations and manipulate large text data with a single shell command Modularize reusable shell scripts by creating shell libraries Redirect input, output, and errors of a command or script execution to other streams Debug code with different shell debugging techniques to make your scripts bug-free Manage

processes, along with the environment variables needed to execute them properly Execute and embed other languages in your scripts Manage creation, deletion, and search operations in files In Detail Shell scripting is a quick method to prototype complex applications or problems. Shell scripts are a collection of commands to automate tasks, usually those for which the user has a repeated need, when working on Linux-based systems. Using simple commands or a combination of them in a shell can solve complex problems easily. This book starts with the basics, including essential commands that can be executed on Linux systems to perform

tasks within a few nanoseconds. You'll learn to use outputs from commands and transform them to show the data you require. Discover how to write shell scripts easily, execute script files, debug, and handle errors. Next, you'll explore environment variables in shell programming and learn how to customize them and add a new environment. Finally, the book walks you through processes and how these interact with your shell scripts, along with how to use scripts to automate tasks and how to embed other languages and execute them. Style and approach This book is a pragmatic guide to writing efficient shell programs, complete

with hands-on examples and tips.

Linux System

Programming

Techniques Addison-

Wesley Professional

Describes the concepts

of programming with

Linux, covering such

topics as shell

programming, file

structure, managing

memory, using MySQL,

debugging, processes

and signals, and

GNOME.

Interprocess

Communications in

UNIX Springer

"The clearest, most

complete guide to UNIX

interprocess

communications! When

it comes to UNIX

interprocess

communications

techniques that are

essential to distributed

client/server

computing, no other

book offers this much

depth - or this much

clarity. Starting with the basics, Interprocess Communications in UNIX, Second Edition explains exactly what UNIX processes are, how they are generated, and how they can access their own environments. This new edition also includes unprecedented practical coverage of multithreading with POSIX threads."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Systems Programming in Unix/Linux CRC Press
Advanced Linux Programming Is Intended For The Programmer Already Familiar With The C Programming Language. Authors

Alex Samuel, Jeffrey Oldham, And Mark Mitchell Of Codesourcery, Llc Take A Tutorial Approach And Teach The Most Important Concepts And Techniques For Using The Advanced And Powerful Features Of The Gnu/Linux System In Application Programs. If You'Re A Developer Already Experienced With Programming For The Gnu/Linux System, Are Experienced With Another Unix-Like System And Are Interested In Developing Gnu/Linux Software, Or Want To Make The Transition From A Non-Unix Environment And Are Already Familiar With The General Principles Of Writing Good Software, This Book Is For You.
The Design and

Implementation of the FreeBSD Operating System Packt Publishing Ltd
 Find solutions to all your problems related to Linux system programming using practical recipes for developing your own system programs
 Key Features Develop a deeper understanding of how Linux system programming works
 Gain hands-on experience of working with different Linux projects with the help of practical examples
 Learn how to develop your own programs for Linux
 Book Description Linux is the world's most popular open source operating system (OS). Linux System Programming Techniques will enable you to extend the Linux OS with your own system programs and

communicate with other programs on the system. The book begins by exploring the Linux filesystem, its basic commands, built-in manual pages, the GNU compiler collection (GCC), and Linux system calls. You'll then discover how to handle errors in your programs and will learn to catch errors and print relevant information about them. The book takes you through multiple recipes on how to read and write files on the system, using both streams and file descriptors. As you advance, you'll delve into forking, creating zombie processes, and daemons, along with recipes on how to handle daemons using systemd. After this, you'll find out how to create shared libraries

and start exploring different types of interprocess communication (IPC). In the later chapters, recipes on how to write programs using POSIX threads and how to debug your programs using the GNU debugger (GDB) and Valgrind will also be covered. By the end of this Linux book, you will be able to develop your own system programs for Linux, including daemons, tools, clients, and filters. What you will learn Discover how to write programs for the Linux system using a wide variety of system calls Delve into the working of POSIX functions Understand and use key concepts such as signals, pipes,

IPC, and process management Find out how to integrate programs with a Linux system Explore advanced topics such as filesystem operations, creating shared libraries, and debugging your programs Gain an overall understanding of how to debug your programs using Valgrind Who this book is for This book is for anyone who wants to develop system programs for Linux and gain a deeper understanding of the Linux system. The book is beneficial for anyone who is facing issues related to a particular part of Linux system programming and is looking for specific recipes or solutions.

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