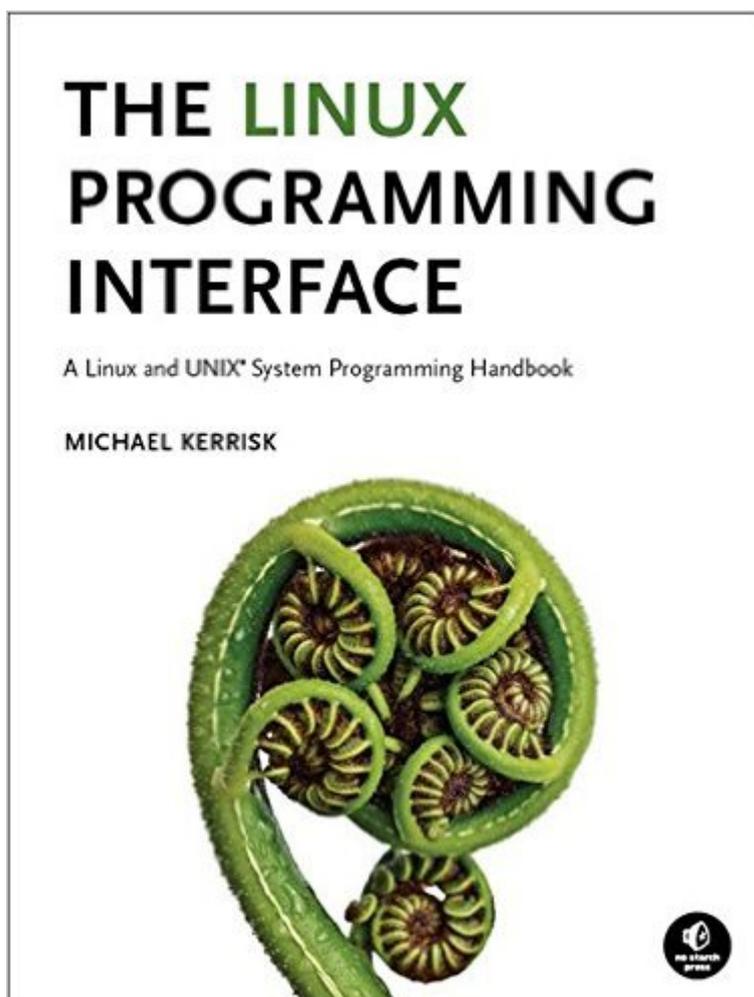The book was found

The Linux Programming Interface: A Linux And UNIX System Programming Handbook

Synopsis

The Linux Programming Interface is the definitive guide to the Linux and UNIX programming interfaceâ€"the interface employed by nearly every application that runs on a Linux or UNIX system. In this authoritative work, Linux programming expert Michael Kerrisk provides detailed descriptions of the system calls and library functions that you need in order to master the craft of system programming, and accompanies his explanations with clear, complete example programs. You'll find descriptions of over 500 system calls and library functions, and more than 200 example programs, 88 tables, and 115 diagrams. You'll learn how to: Read and write files efficientlyUse signals, clocks, and timersCreate processes and execute programsWrite secure programsWrite multithreaded programs using POSIX threadsBuild and use shared librariesPerform interprocess communication using pipes, message queues, shared memory, and semaphoresWrite network applications with the sockets API While The Linux Programming Interface covers a wealth of Linux-specific features, including epoll, inotify, and the /proc file system, its emphasis on UNIX standards (POSIX.1-2001/SUSv3 and POSIX.1-2008/SUSv4) makes it equally valuable to programmers working on other UNIX platforms.The Linux Programming Interface is the most comprehensive single-volume work on the Linux and UNIX programming interface, and a book that's destined to become a new classic.Praise for The Linux Programming Interface"If I had to choose a single book to sit next to my machine when writing software for Linux, this would be it."—Martin Landers, Software Engineer, Google"This book, with its detailed descriptions and examples, contains everything you need to understand the details and nuances of the low-level programming APIs in Linux . . . no matter what the level of reader, there will be something to be learnt from this book."—Mel Gorman, Author of Understanding the Linux Virtual Memory Manager"Michael Kerrisk has not only written a great book about Linux programming and how it relates to various standards, but has also taken care that bugs he noticed got fixed and the man pages were (greatly) improved. In all three ways, he has made Linux programming easier. The in-depth treatment of topics in The Linux Programming Interface . . . makes it a must-have reference for both new and experienced Linux programmers."—Andreas Jaeger, Program Manager, openSUSE, Novell"Michael's inexhaustible determination to get his information right, and to express it clearly and concisely, has resulted in a strong reference source for programmers. While this work is targeted at Linux programmers, it will be of value to any programmer working in the UNIX/POSIX ecosystem."—David Butenhof, Author of Programming with POSIX Threads and Contributor to the POSIX and UNIX Standards". . . a very thoroughâ€"yet easy to readâ€"explanation of UNIX system and network programming, with an emphasis on Linux systems. It's certainly a book I'd

recommend to anybody wanting to get into UNIX programming (in general) or to experienced UNIX programmers wanting to know 'what's new' in the popular GNU/Linux system."—Fernando Gont, Network Security Researcher, IETF Participant, and RFC Author". . . encyclopedic in the breadth and depth of its coverage, and textbook-like in its wealth of worked examples and exercises. Each topic is clearly and comprehensively covered, from theory to hands-on working code. Professionals, students, educators, this is the Linux/UNIX reference that you have been waiting for."—Anthony Robins, Associate Professor of Computer Science, The University of Otago"I've been very impressed by the precision, the quality and the level of detail Michael Kerrisk put in his book. He is a great expert of Linux system calls and lets us share his knowledge and understanding of the Linux APIs."—Christophe Blaess, Author of Programmation systeme en C sous Linux". . . an essential resource for the serious or professional Linux and UNIX systems programmer. Michael Kerrisk covers the use of all the key APIs across both the Linux and UNIX system interfaces with clear descriptions and tutorial examples and stresses the importance and benefits of following standards such as the Single UNIX Specification and POSIX 1003.1."—Andrew Josey, Director, Standards, The Open Group, and Chair of the POSIX 1003.1 Working Group"What could be better than an encyclopedic reference to the Linux system, from the standpoint of the system programmer, written by none other than the maintainer of the man pages himself? The Linux Programming Interface is comprehensive and detailed. I firmly expect it to become an indispensable addition to my programming bookshelf."—Bill Gallmeister, Author of POSIX.4 Programmer's Guide: Programming for the Real World". . . the most complete and up-to-date book about Linux and UNIX system programming. If you're new to Linux system programming, if you're a UNIX veteran focused on portability while interested in learning the Linux way, or if you're simply looking for an excellent reference about the Linux programming interface, then Michael Kerrisk's book is definitely the companion you want on your bookshelf."—Loic Domaigne, Chief Software Architect (Embedded), Corpuls.com

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Customer Reviews

I can't imagine how much work went into producing this volume. Every page seems to jump out of the nice, hard-bound cover with something interesting or exciting such as Chapter 38's discussion of writing secure privileged programs or Chapter 43's table 43-1 collection of "Identifiers and handles for various types of IPC facilities." This extensive work is a pinnacle collection of all things specific to programming Linux at the system call level. From the maintainer of man pages, we have an extension of them in this book. If you tend to think of man pages as more of a "what," this volume gives us the "what" with the "why."The back cover heralds the work as "the definitive guide to Linux and UNIX system programming," and it is very thoroughly true. If you want to learn how to program Perl or Python, this isn't it. The examples are notably and obviously in C. C is the language of UNIX systems programmers and of the Linux kernel. Likewise, you won't find a dissertation on Gnome versus KDE. It is my opinion that this book is for the hacker who logs into the machine at runlevel 3 or, if at 5, first opens a terminal window in order to do "real work."I strongly encourage you to obtain a copy of this book. If you're at all serious about Linux system programming, you'll be amazed at the insight produced on the pages of this extensive volume. I searched for at least one "bad" thing throughout it, you know, just to see if there was a blemish worthy of mention or some reason that 5 stars wasn't quite right. I haven't found one yet.There are books that you simply love and want to read over and over again that you present 5 passionate stars.

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