



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

Michael Kerrisk

Download now

[Click here](#) if your download doesn't start automatically

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

Michael Kerrisk

The Linux Programming Interface: A Linux and UNIX System Programming Handbook Michael Kerrisk

The Linux Programming Interface is the definitive guide to the Linux and UNIX programming interface—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 efficiently
- Use signals, clocks, and timers
- Create processes and execute programs
- Write secure programs
- Write multithreaded programs using POSIX threads
- Build and use shared libraries
- Perform interprocess communication using pipes, message queues, shared memory, and semaphores
- Write 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 thorough—yet easy to read—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

 [Download The Linux Programming Interface: A Linux and UNIX ...pdf](#)

 [Read Online The Linux Programming Interface: A Linux and UNI ...pdf](#)

Download and Read Free Online The Linux Programming Interface: A Linux and UNIX System Programming Handbook Michael Kerrisk

From reader reviews:

Heather Sessoms:

Spent a free a chance to be fun activity to accomplish! A lot of people spent their spare time with their family, or their own friends. Usually they accomplishing activity like watching television, going to beach, or picnic in the park. They actually doing same every week. Do you feel it? Would you like to something different to fill your current free time/ holiday? Can be reading a book could be option to fill your no cost time/ holiday. The first thing you ask may be what kinds of publication that you should read. If you want to try look for book, may be the guide untitled The Linux Programming Interface: A Linux and UNIX System Programming Handbook can be good book to read. May be it might be best activity to you.

Willie Dreher:

Reading can called mind hangout, why? Because when you find yourself reading a book especially book entitled The Linux Programming Interface: A Linux and UNIX System Programming Handbook your mind will drift away trough every dimension, wandering in most aspect that maybe not known for but surely will become your mind friends. Imaging each word written in a guide then become one web form conclusion and explanation that will maybe you never get just before. The The Linux Programming Interface: A Linux and UNIX System Programming Handbook giving you yet another experience more than blown away your head but also giving you useful information for your better life in this era. So now let us show you the relaxing pattern is your body and mind will be pleased when you are finished looking at it, like winning a. Do you want to try this extraordinary shelling out spare time activity?

Jewel Tarr:

This The Linux Programming Interface: A Linux and UNIX System Programming Handbook is brand-new way for you who has interest to look for some information because it relief your hunger of knowledge. Getting deeper you in it getting knowledge more you know or perhaps you who still having small amount of digest in reading this The Linux Programming Interface: A Linux and UNIX System Programming Handbook can be the light food for yourself because the information inside that book is easy to get through anyone. These books acquire itself in the form which can be reachable by anyone, that's why I mean in the e-book type. People who think that in publication form make them feel drowsy even dizzy this guide is the answer. So there is no in reading a book especially this one. You can find what you are looking for. It should be here for anyone. So , don't miss that! Just read this e-book kind for your better life in addition to knowledge.

Luann Bowen:

You can get this The Linux Programming Interface: A Linux and UNIX System Programming Handbook by visit the bookstore or Mall. Just simply viewing or reviewing it can to be your solve issue if you get difficulties on your knowledge. Kinds of this book are various. Not only by written or printed but can you

enjoy this book through e-book. In the modern era like now, you just looking from your mobile phone and searching what your problem. Right now, choose your ways to get more information about your guide. It is most important to arrange yourself to make your knowledge are still up-date. Let's try to choose appropriate ways for you.

**Download and Read Online The Linux Programming Interface: A
Linux and UNIX System Programming Handbook Michael Kerrisk
#R2JUD6V038Y**

Read The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk for online ebook

The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk books to read online.

Online The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk ebook PDF download

The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk Doc

The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk Mobipocket

The Linux Programming Interface: A Linux and UNIX System Programming Handbook by Michael Kerrisk EPub