

Programming With Posix Threads Addison Wesley Professional Computing Paperback

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Threaded programming is particularly well suited to network programming where it helps alleviate the bottleneck of slow network I/O. This book offers an in-depth description of the IEEE operating system interface standard, POSIXAE (Portable Operating System Interface) threads, commonly called Pthreads.

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In-depth coverage is given of the emerging POSIX Threads library for UNIX and how to code with it. These pages explain the concepts and foundations of threads programming, including real-life constructions. The book compares and contrasts the Pthreads library with those for OS/2 and Windows NT throughout.

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Programming with POSIX Threads - David R. Butenhof ...

Authors examine the state of the U.S. and European service Programming with POSIX Threads Addison-Wesley Professional, 1997 Brand Name Bullies The Quest to Own and Control Culture, David Bollier, Jan 17, 2005, History, 309 pages.

Programming with POSIX Threads, 1997, 381 pages, David R ...

Here is a programmer's guide to using and programming POSIX threads, commonly known as Pthreads. A "coder's book", this title tells how to use Pthreads in the real world, making efficient and portable applications. Pthreads are an important set of current tools programmers need to have in today's network-intensive climate.

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Programming with POSIX Threads, Addison Wesley, 1997, ISBN: 0201633922, LC: QA76.76.T55.B88. ... Pthreads Programming: A POSIX Standard for Better Multiprocessing, O'Reilly, 1996, ISBN: 1-56592-115-1. Examples and Tests: COND1 demonstrates the use of a condition variable which can cause a process to wait and then resume execution. ...

PTHREADS - Posix Threads for Multiprocessing

Threaded programming is particularly well suited to network programming where it helps alleviate the bottleneck of slow network I/O. This book offers an in-depth description of the IEEE operating system interface standard, POSIXAE (Portable Operating System Interface) threads, commonly called Pthreads.

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In this book, realistic examples show both the situations where threading is valuable and the ways to

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use threads to improve the modularity and efficiency of a program. The author takes the user behind the scenes to show them how threads work, where to expect problems, and what performance issues exist. Chapters on DCE, real-time, and multiprocessing are included.

The revision of the definitive guide to Unix system programming is now available in a more portable format.

Providing an overview of the Solaris and POSIX multithreading architectures, this book explains threads at a level that is completely accessible to programmers and system architects with no previous knowledge of threads. It covers the business and technical benefits of threaded programs, along with discussions of third party software that is threaded, pointing out the benefits. It also describes the design of the Solaris MT API, with references to distinctions in POSIX, contains a set of example programs which illustrate the usage of the Solaris and POSIX APIs, and explains the use of programming tools: Thread Analyzer, LockLint, LoopTool and Debugger.

Master the essentials of concurrent programming, including testing and debugging This textbook examines languages and libraries for multithreaded programming. Readers learn how to create threads in Java and C++, and develop essential concurrent programming and problem-solving skills. Moreover, the textbook sets itself apart from other comparable works by helping readers to become proficient in key testing and debugging techniques. Among the topics covered, readers are introduced to the relevant aspects of Java, the POSIX Pthreads library, and the Windows Win32 Applications Programming Interface. The authors have developed and fine-tuned this book through the concurrent programming courses they have taught for the past twenty years. The material, which emphasizes practical tools and techniques to solve concurrent programming problems, includes original results from the authors' research. Chapters include: * Introduction to concurrent programming * The critical section problem * Semaphores and locks * Monitors * Message-passing * Message-passing in distributed programs * Testing and debugging concurrent programs As an aid to both students and instructors, class libraries have been implemented to provide working examples of all the material that is covered. These libraries and the testing techniques they support can be used to assess student-written programs. Each chapter includes exercises that build skills in program writing and help ensure that readers have mastered the chapter's key concepts. The source code for all the listings in the text and for the synchronization libraries is also provided, as well as startup files and test cases for the exercises. This textbook is designed for upper-level undergraduates and graduate students in computer science. With its abundance of practical material and inclusion of working code, coupled with an emphasis on testing and debugging, it is also a highly useful reference for practicing programmers.

Software -- Operating Systems.

Multicore Application Programming is a comprehensive, practical guide to high-performance multicore programming that any experienced developer can use. Author Darryl Gove covers the leading approaches to parallelization on Windows, Linux, and Oracle Solaris. Through practical examples, he illuminates the challenges involved in writing applications that fully utilize multicore processors, helping you produce applications that are functionally correct, offer superior performance, and scale well to eight cores, sixteen Cores, and beyond. The book reveals how specific hardware implementations impact application performance and shows how to avoid common pitfalls. Step by step, you'll write applications that can handle large numbers of parallel threads, and you'll master advanced parallelization techniques. Multicore Application Programming isn't wedded to a single approach or platform: It is for every experienced C programmer working with any contemporary multicore processor in any leading operating system environment.

The classic guide to UNIX® programming—completely updated! UNIX application programming requires a mastery of system-level services. Making sense of the many functions—more than 1,100 functions in the current UNIX specification—is a daunting task, so for years programmers have turned to Advanced UNIX Programming for its clear, expert advice on how to use the key functions reliably. An enormous number of changes have taken place in the UNIX environment since the landmark first edition. In Advanced UNIX Programming, Second Edition, UNIX pioneer Marc J. Rochkind brings the book fully up to date, with all-new, comprehensive coverage including: POSIX Solaris™ Linux® FreeBSD Darwin, the Mac™ OS X kernel And more than 200 new system calls Rochkind's fully updated classic explains all the UNIX system calls you're likely to need, all in a single volume! Interprocess communication, networking (sockets), pseudo terminals, asynchronous I/O, advanced signals, realtime, and threads Covers the system calls you'll actually use—no need to plow through hundreds of improperly implemented, obsolete, and otherwise unnecessary system calls! Thousands of lines of example code include a Web browser and server, a keystroke recorder/player, and a shell complete with pipelines, redirection, and background processes Emphasis on the practical—ensuring portability, avoiding pitfalls, and much more! Since 1985, the one book to have for mastering UNIX application programming has been Rochkind's Advanced UNIX Programming. Now completely updated, the second edition remains the choice for up-to-the-minute, in-depth coverage of the essential system-level services of the UNIX family of operating systems.

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

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