Advanced Programming the UNIX®

W. Richard Stevens

Mark Austin, David Chancogne

Advanced Programming in the UNIX Environment W. Richard Stevens, 1997 Advanced Programming in the Advanced Programming in the UNIX Environment W. Richard Stevens, Stephen UNIX® Environment Stevens, 2005 A. Rago, 2013-06-10 For more than twenty years serious C programmers have relied on one book for practical in depth knowledge of the programming interfaces that drive the UNIX and Linux kernels W Richard Stevens Advanced Programming in the UNIX Environment Now once again Rich's colleague Steve Rago has thoroughly updated this classic work The new third edition supports today s leading platforms reflects new technical advances and best practices and aligns with Version 4 of the Single UNIX Specification Steve carefully retains the spirit and approach that have made this book so valuable Building on Rich's pioneering work he begins with files directories and processes carefully laying the groundwork for more advanced techniques such as signal handling and terminal I O He also thoroughly covers threads and multithreaded programming and socket based IPC This edition covers more than seventy new interfaces including POSIX asynchronous I O spin locks barriers and POSIX semaphores Most obsolete interfaces have been removed except for a few that are ubiquitous Nearly all examples have been tested on four modern platforms Solaris 10 Mac OS X version 10 6 8 Darwin 10 8 0 FreeBSD 8 0 and Ubuntu version 12 04 based on Linux 3 2 As in previous editions you ll learn through examples including more than ten thousand lines of downloadable ISO C source code More than four hundred system calls and functions are demonstrated with concise complete programs that clearly illustrate their usage arguments and return values To tie together what you ve learned the book presents several chapter length case studies each reflecting contemporary environments Advanced Programming in the UNIX Environment has helped generations of programmers write code with exceptional power performance and reliability Now updated for today s systems this third edition will be even more valuable Advanced **Programming in the UNIX Environment** W. Richard Stevens, Stephen A. Rago, 2013 Advanced Programming in the UNIX Environment has helped generations of programmers write code with exceptional power performance and reliability Now updated for today s systems this third edition will be even more valuable **Advanced UNIX Programming Marc J.** Rochkind, 2004-04-29 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 SolarisTM Linux FreeBSD Darwin the MacTM 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 The AWK Programming Language Alfred V. Aho, Brian W. Kernighan, Peter J. Weinberger, 2023-09-20 Awk was developed in 1977 at Bell Labs and it s still a remarkably useful tool for solving a wide variety of problems guickly and efficiently In this update of the classic Awk book the creators of the language show you what Awk can do and teach you how to use it effectively Here's what programmers today are saying I love Awk Awk is amazing It is just so damn good Awk is just right Awk is awesome Awk has always been a language that I loved It s easy Simple fast and lightweight Absolutely efficient to learn because there isn t much to learn 3 4 hours to learn the language from start to finish I can teach it to new engineers in less than 2 hours It's productive Whenever I need to do a complex analysis of a semi structured text file in less than a minute Awk is my tool Learning Awk was the best bang for buck investment of time in my entire career Designed to chew through lines of text files with ease with great defaults that minimize the amount of code you actually have to write to do anything It's always available AWK runs everywhere A reliable Swiss Army knife that is always there when you need it Many systems lack Perl or Python but include Awk Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Introduction to **Engineering Programming** Mark Austin, David Chancogne, 1999-03-22 Zur Programmierung naturwissenschaftlicher und ingenieurtechnischer Anwendungen setzten sich anstelle von Fortran zunehmend C Matlab und Java durch Dem Rechnung tragend pr sentieren die Autoren hier ein Buch das C fr Anf nger der Ingenieurstudieng nge aufbereitet ohne bertrieben gro en Wert auf die informatikspezifischen Aspekte zu legen Die zahlreichen Codebeispiele sind auch in elektronischer Form erh ltlich 12 98 **Understanding Software Dynamics** Richard L Sites, 2021-11-02 An Expert Guide to Software Performance Optimization From mobile and cloud apps to video games to driverless vehicle control more and more software is time constrained It must deliver reliable results seamlessly consistently and virtually instantaneously If it doesn t customers are unhappy and sometimes lives are put at risk When complex software underperforms or fails software engineers need to identify and address the root causes This is difficult and historically few tools have been available to help In Understanding Software Dynamics performance expert Richard L Sites tackles the problem head on offering expert methods and advanced tools for understanding complex time constrained software dynamics improving reliability and troubleshooting challenging performance problems Sites draws on several decades of experience pioneering software performance optimization as well

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