

Second Edition

ADVANCED UNIX PROGRAMMING

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David R. Butenhof



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Stephen Rago's update is a long overdue benefit to the community of professionals using the versatile family of UNIX and UNIX like operating environments. It removes obsolescence and includes newer developments. It also thoroughly updates the context of all topics, examples, and applications to recent releases of popular implementations of UNIX and UNIX like environments. And yet it does all this while retaining the style and taste of the original classic.

Mukesh Kacker, cofounder and former CTO of Pronto Networks Inc. One of the essential classics of UNIX programming, Eric S. Raymond, author of *The Art of UNIX Programming*. This is the definitive reference book for any serious or professional UNIX systems programmer. Rago has updated and extended the classic Stevens text while keeping true to the original. The APIs are illuminated by clear examples of their use. He also mentions many of the pitfalls to look out for when programming across different UNIX system implementations and points out how to avoid these pitfalls using relevant standards such as POSIX 1003.1 2004 edition and the Single UNIX Specification Version 3.

Andrew Josey, Director Certification, The Open Group and Chair of the POSIX 1003.1 Working Group. *Advanced Programming in the UNIX Environment, Second Edition* is an essential reference for anyone writing programs for a UNIX system. It's the first book I turn to when I want to understand or relearn any of the various system interfaces. Stephen Rago has successfully revised this book to incorporate newer operating systems such as GNU Linux and Apple's OS X while keeping true to the first edition in terms of both readability and usefulness. It will always have a place right next to my computer.

Dr. Benjamin Kuperman, Swarthmore College. Praise for the First Edition: *Advanced Programming in the UNIX Environment* is a must have for any serious C programmer who works under UNIX. Its depth, thoroughness, and clarity of explanation are unmatched.

UniForum Monthly: Numerous readers recommended *Advanced Programming in the UNIX Environment* by W. Richard Stevens. Addison Wesley and I'm glad they did. I hadn't even heard of this book and it's been out since 1992. I just got my hands on a copy and the first few chapters have been fascinating.

Open Systems Today: A much more readable and detailed treatment of UNIX internals can be found in *Advanced Programming in the UNIX Environment* by W. Richard Stevens. Addison Wesley. This book includes lots of realistic examples and I find it quite helpful when I have systems programming tasks to do.

RS Magazine: This is the definitive reference book for any serious or professional UNIX systems programmer. Rago has updated and extended the original Stevens classic while keeping true to the original.

Andrew Josey, Director Certification, The Open Group and Chair of the POSIX 1003.1 Working Group. For over a decade, 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 Stevens' colleague Stephen Rago has thoroughly updated this classic to reflect the latest technical advances and add support for today's leading UNIX and Linux platforms. Rago carefully

retains the spirit and approach that made this book a classic Building on Stevens work he begins with basic topics such as files directories and processes carefully laying the groundwork for understanding more advanced techniques such as signal handling and terminal I O Substantial new material includes chapters on threads and multithreaded programming using the socket interface to drive interprocess communication IPC and extensive coverage of the interfaces added to the latest version of the POSIX 1 standard Nearly all examples have been tested on four of today s most widely used UNIX Linux platforms FreeBSD 5 2 1 the Linux 2 4 22 kernel Solaris 9 and Darwin 7 4 0 the FreeBSD Mach hybrid underlying Apple s Mac OS X 10 3 As in the first edition you ll learn through example including more than 10 000 lines of downloadable ANSI C source code More than 400 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 fully updated for contemporary environments Advanced Programming in the UNIX Environment has helped a generation of programmers write code with exceptional power performance and reliability Now updated for today s UNIX Linux systems this second edition will be even more indispensable **Systems Programming in Unix/Linux** K.C.

Wang, 2018-08-27 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 system 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 Advanced CORBA® Programming with C++ Michi Henning, Steve Vinoski, 1999-02-17 Here is the CORBA book that every C software engineer has been waiting for Advanced CORBA Programming with C provides designers and developers with the tools required to understand CORBA technology at the architectural design and source code levels This book offers hands on explanations for building efficient applications as well as lucid examples that provide practical advice on avoiding costly mistakes With this book as a guide programmers will find the support they need to successfully undertake industrial strength CORBA

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TCP/IP Illustrated, Volume 2 Gary R. Wright, W. Richard Stevens, 1995-01-31 TCP IP Illustrated an ongoing series covering the many facets of TCP IP brings a highly effective visual approach to learning about this networking protocol suite TCP IP Illustrated Volume 2 contains a thorough explanation of how TCP IP protocols are implemented There isn't a more practical or up to date book this volume is the only one to cover the de facto standard implementation from the 4.4BSD Lite release the foundation for TCP IP implementations run daily on hundreds of thousands of systems worldwide Combining 500 illustrations with 15 000 lines of real working code TCP IP Illustrated Volume 2 uses a teach by example approach to help you master TCP IP implementation You will learn about such topics as the relationship between the sockets API and the protocol suite and the differences between a host implementation and a router In addition the book covers the newest features of the 4.4BSD Lite release including multicasting long fat pipe support window scale timestamp options and protection against wrapped sequence numbers and many other topics Comprehensive in scope based on a working standard and thoroughly illustrated this book is an indispensable resource for anyone working with TCP IP

Programming with POSIX Threads David R. Butenhof, 1997 Software Operating Systems

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