

# UNIX

## NETWORK PROGRAMMING

Networking APIs: **Sockets and XTI**

*Volume 1*

SECOND EDITION

**W. RICHARD STEVENS**

# Unix Network Programming

**W. Richard Stevens**



## Unix Network Programming:

*UNIX Network Programming: The sockets networking API* W. Richard Stevens, Bill Fenner, Andrew M. Rudoff, 2004 To build today's highly distributed networked applications and services you need deep mastery of sockets and other key networking APIs One book delivers comprehensive start to finish guidance for building robust high performance networked systems in any environment **UNIX Network Programming Volume 1 Third Edition** **UNIX Network Programming: The sockets networking API** W. Richard Stevens, 2004 **UNIX Network Programming** W. Richard Stevens, 1994 **UNIX Network Programming** W. Richard Stevens, 1982 **UNIX NETWORK PROGRAMMING** W. RICHARD STEVENS, 2001-03-30 Unix, 1999 UNIX network programming, 1992 *UNIX Network Programming* Stevens, 1991-07-01 *UNIX System V Network Programming* Stephen A. Rago, 1993 Steve Rago offers valuable insights into the kernel level features of SVR4 not covered elsewhere I think readers will especially appreciate the coverage of STREAMS TLI and SLIP W Richard Stevens author of UNIX Network Programming Advanced Programming in the UNIX Environment TCP IP Illustrated Volume 1 and TCP IP Illustrated Volume 2 Finally with UNIX R System V Network Programming an authoritative reference is available for programmers and system architects interested in building networked and distributed applications for UNIX System V Even if you currently use a different version of the UNIX system such as the latest release of 4.3BSD or SunOS this book is valuable to you because it is centered around UNIX System V Release 4 the version of the UNIX system that unified many of the divergent UNIX implementations For those professionals new to networking and UNIX system programming two introductory chapters are provided The author then presents the programming interfaces most important to building communication software in System V including STREAMS the Transport Layer Interface library Sockets and Remote Procedure Calls So that your designs are not limited to user level the author also explains how to write kernel level communication software including STREAMS drivers modules and multiplexors Many examples are provided including an Ethernet driver and a transport level multiplexing driver In the final chapter the author brings the material from previous chapters together presenting the design of a SLIP communication package 0201563185B04062001 **Unix Network Programming** Sockets Stevens, 1998 *Unix Network Programming from Scratch* Caelum Bitwright, 2025-09-07 Ever feel like network programming is a dark art full of cryptic protocols and arcane incantations Do you want to build robust high performance network applications but feel lost in a maze of abstractions Stop guessing Start building Unix Network Programming from Scratch is your definitive guide to mastering the fundamentals that power the internet This book strips away the complexity and takes you to the core of network communication Forget frameworks that hide what's really happening We go straight to the source teaching you the raw power of sockets streams and system calls If you've ever wanted to know exactly how data travels from one machine to another and how to control that journey this book is your essential roadmap What You'll Learn to Master Starting with the basics of client server models we

build up your knowledge brick by brick You'll not only learn the how but the why Every line of code is a lesson in network behavior from error handling to a deeper understanding of protocols Inside you will Create your own network clients and servers from the ground up using core Unix APIs Understand the difference between TCP and UDP and learn when to use each for optimal performance Master socket programming including connect listen accept send and recv Handle multiple clients at once using powerful I/O multiplexing techniques like select poll and epoll Explore the intricacies of IP addressing DNS lookups and port management Build a variety of practical applications from simple chat servers to high throughput data transfer tools Implement robust error handling and learn to write code that's resilient to real world network failures Gain a profound understanding of network byte order data serialization and common pitfalls Learn to write portable efficient code that works across different Unix like systems This isn't a book for theory alone The examples are practical the code is production ready and the explanations are designed to give you a hands on feel for the code Whether you're a student a junior developer or a seasoned programmer looking to solidify your foundational knowledge this book provides the clarity and insight you need Why Start from Scratch Frameworks are great but they often abstract away the very knowledge that makes you a great programmer When a bug appears or performance suffers the developer with a deep understanding of the fundamentals is the one who can solve the problem This book empowers you with that understanding It gives you the confidence to build anything from a new network protocol to a distributed system with full knowledge of the underlying mechanisms Stop relying on black boxes Start building with power precision and complete control The internet is built on the principles in this book and now you have the chance to master them Take Action The most valuable skill in a networked world is the ability to write reliable fast network applications Your journey to becoming a network programming expert begins here Don't wait Order your copy of Unix Network Programming from Scratch today and start building the future of the internet

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