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[Unix Network Programming The Sockets And Networking Api Vol. 1 3Rd Ed.](#) Stevens Et Al.

*Windows Sockets Network Programming* Bob Quinn 1996 A growing number of the 90,000 network programmers who bought Rich Stevens' UNIX Network Programming need to address a topic not covered by this classic--how to deal with Windows Sockets, also known as WinSock. This book is the definitive word on WinSock, offering a complete tutorial on how to work with Windows Sockets and sample code, which will be available on the Internet.

**Network Programming with Perl** Lincoln D. Stein 2001 A text focusing on the methods and alternatives for designed TCP/IP-based client/server systems and advanced techniques for specialized applications with Perl. A guide examining a collection of the best third party modules in the Comprehensive Perl Archive Network. Topics covered: Perl function libraries and techniques that allow programs to interact with resources over a network. IO: Socket library ; Net: FTP library -- Telnet library -- SMTP library ; Chat problems ; Internet Message Access Protocol (IMAP) issues ; Markup-language parsing ; Internet Protocol (IP) broadcasting and multicasting.

**UNIX Network Programming** W. Richard Stevens 1982

**IPv6 Essentials** Silvia Hagen 2014-06-09 If your organization is gearing up for IPv6, this in-depth book provides the practical information and guidance you need to

plan for, design, and implement this vastly improved protocol. Author Silvia Hagen takes system and network administrators, engineers, and network designers through the technical details of IPv6 features and functions, and provides options for those who need to integrate IPv6 with their current IPv4 infrastructure. The flood of Internet-enabled devices has made migrating to IPv6 a paramount concern worldwide. In this updated edition, Hagen distills more than ten years of studying, working with, and consulting with enterprises on IPv6. It's the only book of its kind. IPv6 Essentials covers: Address architecture, header structure, and the ICMPv6 message format IPv6 mechanisms such as Neighbor Discovery, Stateless Address autoconfiguration, and Duplicate Address detection Network-related aspects and services: Layer 2 support, Upper Layer Protocols, and Checksums IPv6 security: general practices, IPSec basics, IPv6 security elements, and enterprise security models Transitioning to IPv6: dual-stack operation, tunneling, and translation techniques Mobile IPv6: technology for a new generation of mobile services Planning options, integration scenarios, address plan, best practices, and dos and don'ts

**The Sockets Networking API** W. Stevens 2003 UNIX Network Programming, Volume 1: The Sockets Networking API, Third Edition "Everyone will want this book because it provides a great mix of practical experience, historical perspective, and a depth of understanding that only comes from being intimately involved in the field. I've already enjoyed and learned from reading this book, and surely you will too." --Sam Leffler The classic guide to UNIX networking APIs... now completely updated! 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. Building on the legendary work of W. Richard Stevens, this edition has been fully updated by two leading network programming experts to address today's most crucial standards, implementations, and techniques. New topics include: POSIX Single UNIX Specification Version 3 IPv6 APIs (including updated guidance on IPv6/IPv4 interoperability) The new SCTP transport protocol IPsec-based Key Management Sockets FreeBSD 4.8/5.1, Red Hat Linux 9.x, Solaris 9, AIX 5.x, HP-UX, and Mac OS X implementations New network program debugging techniques Source Specific Multicast API, the key enabler for widespread IP multicast deployment The authors also update and extend Stevens' definitive coverage of these crucial UNIX networking standards and techniques: TCP and UDP transport Sockets: elementary, advanced, routed, and raw I/O: multiplexing, advanced functions, nonblocking, and signal-driven Daemons and inetd UNIX domain protocols ioctl operations Broadcasting and multicasting Threads Streams Design: TCP iterative, concurrent, preforked, and prethreaded servers Since 1990, network programmers have turned to one source for the insights and techniques they need: W. Richard Stevens' UNIX Network Programming . Now, there's an edition specifically designed for today's challenges--and tomorrow's.

**IPv6 Network Programming** Jun-ichiro itojun Hagino 2004-11-16 This book contains everything you need to make your application program support IPv6. IPv6 socket APIs (RFC2553) are fully described with real-world examples. It covers security, a great concern these days. To secure the Internet infrastructure, every developer has to take a security stance - to audit every line of code, to use proper API and write correct and secure code as much as possible. To achieve this goal, the examples presented in this book are implemented with a security stance. Also, the book leads you to write secure programs. For instance, the book recommends against the use of some of the IPv6 standard APIs - unfortunately, there are some IPv6 APIs that are inherently insecure, so the book tries to avoid (and discourage) the use of such APIs. Another key issue is portability. The examples in the book should be applicable to any of UNIX based operating systems, MacOS X, and Windows XP. \* Covers the new protocol just adopted by the Dept of Defense for future systems \* Deals with security concerns, including spam and email, by presenting the best programming standards \* Fully describes IPv6 socket APIs (RFC2553) using real-world examples \* Allows for portability to UNIX-based operating systems, MacOS X, and Windows XP

**UNIX Network Programming** W. Richard Stevens 1998 Software -- Operating Systems.

**Beej's Guide to Network Programming** Brian "beej Jorgensen" Hall 2019-12-12 Back in the mid 90s, Beej got tired of all his friends asking him how to do this stuff with networking programming in C, so he put pen to paper on the early World Wide Web and wrote down everything he knew just to get them off his back. Since then, the Guide has expanded significantly, with plenty of examples, and covers IPv6. Inside you'll find such diverse topics as: Sockets programming in the C programming language, client/server, IPv4 and IPv6, data encoding, lots of manual pages rewritten in a friendlier format with examples, and goats! Actually no goats, but goats will be with you in spirit! Beej's Guide to Network Programming is also freely available for PDF download online in US Letter and A4 sizes, in its entirety, and always will be--Google for it. The bound version here is provided as a service to those who still prefer the analog printed word. (And to those who want to kick back a few bucks to the author.)

**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

**Effective TCP/IP Programming** Jon C. Snader 2000-05-04 Programming in TCP/IP can seem deceptively simple. Nonetheless, many network programmers recognize that their applications could be much more robust. Effective TCP/IP Programming is designed to boost programmers to a higher level of competence by focusing on the protocol suite's more subtle features and techniques. It gives you the know-how you need to produce highly effective TCP/IP programs. In forty-four concise, self-contained lessons, this book offers experience-based tips, practices, and rules of thumb for learning high-performance TCP/IP programming techniques. Moreover, it shows you how to avoid many of TCP/IP's most common trouble spots. Effective TCP/IP Programming offers valuable advice on such topics as: Exploring IP addressing, subnets, and CIDR Preferring the sockets interface over XTI/TLI Using two TCP connections Making your applications event-driven Using one large write instead of multiple small writes Avoiding data copying Understanding what TCP reliability really means Recognizing the effects of buffer sizes Using tcpdump, traceroute, netstat, and ping effectively Numerous examples demonstrating essential ideas and concepts. Skeleton code and a library of common functions allow you to write applications without having to worry about routine chores. Through individual tips and explanations, you will acquire an overall understanding of TCP/IP's inner workings and the practical knowledge needed to put it to work. Using Effective TCP/IP Programming, you'll speed through the learning process and quickly achieve the programming capabilities of a seasoned pro.

**Unix Network Programming: The Sockets Networking Api** W. Richard Stevens 2011

**TCP/IP Illustrated, Volume 3** W. Richard Stevens 2016-01-29

**Network Programming with Windows Sockets** Patrice Bonner 1996 Complete information for developers designing network programs using the Windows Sockets standard. This book's easy-to-understand explanations and sample programs simplify working with the Windows Sockets API. Expert Patrice Bonner presents methods and tools for designing robust network applications, including sample stream and datagram client and server applications.

**Java Network Programming and Distributed Computing** David Reilly 2002 Java's rich, comprehensive networking interfaces make it an ideal platform for building today's networked, Internet-centered applications, components, and Web services. Now, two Java networking experts demystify Java's complex networking API, giving developers practical insight into the key techniques of network development, and providing extensive code examples that show exactly how it's done. David and Michael Reilly begin by reviewing fundamental Internet architecture and TCP/IP protocol concepts all network programmers need to understand, as well as general Java features and techniques that are especially important in network programming, such as exception handling and input/output. Using practical examples, they show how to write clients and servers using UDP and TCP; how to build multithreaded network applications; and how to utilize HTTP and access the Web using Java. The book includes detailed coverage of server-side application development; distributed computing development with RMI and CORBA; and email-enabling applications with the powerful JavaMail API. For all beginning to intermediate Java programmers, network programmers who need to learn to work with Java.

**UNIX Network Programming** W. Richard Stevens 1990 The Unix model; Interprocess communication; A network primer; Communication protocols; Berkeley

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sockets; System V transport layer interface; Library routines; Security; Time and date routines; Ping routines; Trivial file transfer protocol; Line printer spoolers; Remote command execution; Remote login; Remote tape drive access; Performance; Remote procedure calls.

**C# Network Programming** Richard Blum 2006-02-20 On its own, C# simplifies network programming. Combine it with the precise instruction found in C# Network Programming, and you'll find that building network applications is easier and quicker than ever. This book helps newcomers get started with a look at the basics of network programming as they relate to C#, including the language's network classes, the Winsock interface, and DNS resolution. Spend as much time here as you need, then dig into the core topics of the network layer. You'll learn to make sockets connections via TCP and "connectionless" connections via UDP. You'll also discover just how much help C# gives you with some of your toughest chores, such as asynchronous socket programming, multithreading, and multicasting. Network-layer techniques are just a means to an end, of course, and so this book keeps going, providing a series of detailed application-layer programming examples that show you how to work with real protocols and real network environments to build and implement a variety of applications. Use SNMP to manage network devices, SMTP to communicate with remote mail servers, and HTTP to Web-enable your applications. And use classes native to C# to query and modify Active Directory entries. Rounding it all out is plenty of advanced coverage to push your C# network programming skills to the limit. For example, you'll learn two ways to share application methods across the network: using Web services and remoting. You'll also master the security features intrinsic to C# and .NET--features that stand to benefit all of your programming projects.

**Remote Control Robotics** Craig Sayers 1999 Increasingly, robots are being used in environments inhospitable to humans such as the deep ocean, inside nuclear reactors, and in deep space. Such robots are controlled by remote links to human operators who may be close by or thousands of miles away. The techniques used to control these robots is the subject of this book. The author begins with a basic introduction to robot control and then considers the important problems to be overcome: delays or noisy control lines, feedback and response information, and predictive displays. Readers are assumed to have a basic understanding of robotics though this may be their first exposure to the subject of telerobotics. Professional engineers and roboticists will find this an invaluable introduction to this subject.

**Foundations of Python Network Programming** John Goerzen 2004-08-16 \* Covers low-level networking in Python --essential for writing a new networked application protocol. \* Many working examples demonstrate concepts in action -- and can be used as starting points for new projects. \* Networked application security is demystified. \* Exhibits and explains multitasking network servers using several models, including forking, threading, and non-blocking sockets. \* Features extensive coverage of Web and E-mail. Describes Python's database APIs.

**Reversing** Eldad Eilam 2011-12-12 Beginning with a basic primer on reverse engineering--including computer internals, operating systems, and assembly language--and then discussing the various applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product. \* The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products \* Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware \* Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering--and explaining how to decipher assembly language

**Unix Network Programming** Stevens 2012

**Unix Network Programming Volume 1: the Sockets Networking API** Stevens Richard 2003-11

**Linux Socket Programming** Sean Walton 2001 "Linux Socket Programming" provides thorough, authoritative coverage of the sockets API, the defacto standard for all network programming. It gives real-world examples that demonstrate effective techniques to make code more robust and versatile. This book contains the only complete reference for all calls and functions needed to program sockets.

**C++ Network Programming, Volume 2** Douglas Schmidt 2002-10-29 Do you need to develop flexible software that can be customized quickly? Do you need to add the power and efficiency of frameworks to your software? The ADAPTIVE Communication Environment (ACE) is an open-source toolkit for building high-performance networked applications and next-generation middleware. ACE's power and flexibility arise from object-oriented frameworks, used to achieve the systematic reuse of networked application software. ACE frameworks handle common network programming tasks and can be customized using C++ language features to produce complete distributed applications. C++ Network Programming, Volume 2, focuses on ACE frameworks, providing thorough coverage of the concepts, patterns, and usage rules that form their structure. This book is a practical guide to designing object-oriented frameworks and shows developers how to apply frameworks to concurrent networked applications. C++ Networking, Volume 1, introduced ACE and the wrapper facades, which are basic network computing ingredients. Volume 2 explains how frameworks build on wrapper facades to provide higher-level communication services. Written by two experts in the ACE community, this book contains: An overview of ACE frameworks Design dimensions for networked services Descriptions of the key capabilities of the most important ACE frameworks Numerous C++ code examples that demonstrate how to use ACE frameworks C++ Network Programming, Volume 2, teaches how to use frameworks to write networked applications quickly, reducing development effort and overhead. It will be an invaluable asset to any C++ developer working on networked applications.

**UNIX Network Programming** W. R. Stevens 1990 The Unix model; Interprocess communication; A network primer; Communication protocols; Berkeley sockets; System V transport layer interface; Library routines; Security; Time and date routines; Ping routines; Trivial file transfer protocol; Line printer spoolers; Remote command execution; Remote login; Remote tape drive access; Performance; Remote procedure calls.

**UNIX Network Programming, Volume 2** W. Richard Stevens 1998-08-25 Well-implemented interprocess communications (IPC) are key to the performance of virtually every non-trivial UNIX program. In UNIX Network Programming, Volume 2, Second Edition, legendary UNIX expert W. Richard Stevens presents a comprehensive guide to every form of IPC, including message passing, synchronization, shared memory, and Remote Procedure Calls (RPC). Stevens begins with a basic introduction to IPC and the problems it is intended to solve. Step-by-step you'll learn how to maximize both System V IPC and the new Posix standards, which offer dramatic improvements in convenience and performance.

**Java Network Programming** Elliotte Rusty Harold 2000 A guide to developing network programs covers networking fundamentals as well as TCP and UDP sockets, multicasting protocol, content handlers, servlets, I/O, parsing, Java Mail API, and Java Secure Sockets Extension.

**UNIX Network Programming: Interprocess communications** W. Richard Stevens 1998 V.1 Networking APIs: sockets and XTI V.2 Interprocess communications.

**TCP/IP Sockets in C** Michael J. Donahoo 2009-03-02 TCP/IP Sockets in C: Practical Guide for Programmers, Second Edition is a quick and affordable way to gain the knowledge and skills needed to develop sophisticated and powerful web-based applications. The book's focused, tutorial-based approach enables the reader to master the tasks and techniques essential to virtually all client-server projects using sockets in C. This edition has been expanded to include new advancements such as support for IPv6 as well as detailed defensive programming strategies. If you program using Java, be sure to check out this book's companion, TCP/IP Sockets in Java: Practical Guide for Programmers, 2nd Edition. Includes completely new and expanded sections that address the IPv6 network environment, defensive programming, and the select() system call, thereby allowing the reader to program in accordance with the most current standards for internetworking. Streamlined and concise tutelage in conjunction with line-by-line code commentary allows readers to quickly program web-based applications without having to wade through unrelated and discursive

networking tenets.

*UNIX NETWORK PROGRAMMING* W.RICHARD STEVENS 2001-03-30

*UNIX Network Programming: The sockets networking API* W. Richard Stevens 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 W. Richard Stevens 1994

**Hands-On Network Programming with C** Lewis Van Winkle 2019-05-13 A comprehensive guide to programming with network sockets, implementing internet protocols, designing IoT devices, and much more with C Key FeaturesApply your C and C++ programming skills to build powerful network applicationsGet to grips with a variety of network protocols that allow you to load web pages, send emails, and do much moreWrite portable network code for Windows, Linux, and macOSBook Description Network programming enables processes to communicate with each other over a computer network, but it is a complex task that requires programming with multiple libraries and protocols. With its support for third-party libraries and structured documentation, C is an ideal language to write network programs. Complete with step-by-step explanations of essential concepts and practical examples, this C network programming book begins with the fundamentals of Internet Protocol, TCP, and UDP. You'll explore client-server and peer-to-peer models for information sharing and connectivity with remote computers. The book will also cover HTTP and HTTPS for communicating between your browser and website, and delve into hostname resolution with DNS, which is crucial to the functioning of the modern web. As you advance, you'll gain insights into asynchronous socket programming and streams, and explore debugging and error handling. Finally, you'll study network monitoring and implement security best practices. By the end of this book, you'll have experience of working with client-server applications and be able to implement new network programs in C. The code in this book is compatible with the older C99 version as well as the latest C18 and C++17 standards. You'll work with robust, reliable, and secure code that is portable across operating systems, including Winsock sockets for Windows and POSIX sockets for Linux and macOS. What you will learnUncover cross-platform socket programming APIsImplement techniques for supporting IPv4 and IPv6Understand how TCP and UDP connections work over IPDiscover how hostname resolution and DNS workInterface with web APIs using HTTP and HTTPSExplore Simple Mail Transfer Protocol (SMTP) for electronic mail transmissionApply network programming to the Internet of Things (IoT)Who this book is for If you're a developer or a system administrator who wants to get started with network programming, this book is for you. Basic knowledge of C programming is assumed.

*UNIX Network Programming* Stevens 1991-07-01

**UNIX Network Programming: Vol. 1: The Sockets Networking API.** Richard W Stevens 2003 UNIX Network Programming, Volume 1: The Sockets Networking API, Third Edition "Everyone will want this book because it provides a great mix of practical experience, historical perspective, and a depth of understanding that only comes from being intimately involved in the field. I've already enjoyed and learned from reading this book, and surely you will too." --Sam Leffler The classic guide to UNIX networking APIs... now completely updated! 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. Building on the legendary work of W. Richard Stevens, this edition has been fully updated by two leading network programming experts to address today's most crucial standards, implementations, and techniques. New topics include: POSIX Single UNIX Specification Version 3 IPv6 APIs (including updated guidance on IPv6/IPv4 interoperability) The new SCTP transport protocol IPsec-based Key Management Sockets FreeBSD 4.8/5.1, Red Hat Linux 9.x, Solaris 9, AIX 5.x, HP-UX, and Mac OS X implementations New network program debugging techniques Source Specific Multicast API, the key enabler for widespread IP multicast deployment The authors also update and extend Stevens' definitive coverage of these crucial UNIX networking standards and techniques: TCP and UDP transport Sockets: elementary, advanced, routed, and raw I/O: multiplexing, advanced functions, nonblocking, and signal-driven Daemons and inetd UNIX domain protocols ioctl operations Broadcasting and multicasting Threads Streams Design: TCP iterative, concurrent,

*Python Network Programming*

preforked, and prethreaded servers Since 1990, network programmers have turned to one source for the insights and techniques they need: W. Richard Stevens' UNIX Network Programming . Now, there's an edition specifically designed for today's challenges--and tomorrow's.

**TCP/IP Sockets in C#** David Makofske 2004-04-29 This volume focuses on the underlying sockets class, one of the basis for learning about networks in any programming language. By learning to write simple client and server programs that use TCP/IP, readers can then realize network routing, framing, error detection and correction, and performance.

Abhishek Ratan 2019-01-31 Power up your network applications with Python programming Key FeaturesMaster Python skills to develop powerful network applicationsGrasp the fundamentals and functionalities of SDNDesign multi-threaded, event-driven architectures for echo and chat serversBook Description This Learning Path highlights major aspects of Python network programming such as writing simple networking clients, creating and deploying SDN and NFV systems, and extending your network with Mininet. You'll also learn how to automate legacy and the latest network devices. As you progress through the chapters, you'll use Python for DevOps and open source tools to test, secure, and analyze your network. Toward the end, you'll develop client-side applications, such as web API clients, email clients, SSH, and FTP, using socket programming. By the end of this Learning Path, you will have learned how to analyze a network's security vulnerabilities using advanced network packet capture and analysis techniques. This Learning Path includes content from the following Packt products: Practical Network Automation by Abhishek Ratan Mastering Python Networking by Eric ChouPython Network Programming Cookbook, Second Edition by Pradeeban Kathiravelu, Dr. M. O. Faruque SarkerWhat you will learnCreate socket-based networks with asynchronous modelsDevelop client apps for web APIs, including S3 Amazon and TwitterTalk to email and remote network servers with different protocolsIntegrate Python with Cisco, Juniper, and Arista eAPI for automationUse Telnet and SSH connections for remote system monitoringInteract with websites via XML-RPC, SOAP, and REST APIsBuild networks with Ryu, OpenDaylight, Floodlight, ONOS, and POXConfigure virtual networks in different deployment environmentsWho this book is for If you are a Python developer or a system administrator who wants to start network programming, this Learning Path gets you a step closer to your goal. IT professionals and DevOps engineers who are new to managing network devices or those with minimal experience looking to expand their knowledge and skills in Python will also find this Learning Path useful. Although prior knowledge of networking is not required, some experience in Python programming will be helpful for a better understanding of the concepts in the Learning Path.

**UNIX Network Programming: The sockets networking API** W. Richard Stevens 2004

**UNIX Network Programming** Bill Fenner 2004

C++ Network Programming, Volume I Douglas Schmidt 2001-12-10 As networks, devices, and systems continue to evolve, software engineers face the unique challenge of creating reliable distributed applications within frequently changing environments. C++ Network Programming, Volume 1, provides practical solutions for developing and optimizing complex distributed systems using the ADAPTIVE Communication Environment (ACE), a revolutionary open-source framework that runs on dozens of hardware platforms and operating systems. This book guides software professionals through the traps and pitfalls of developing efficient, portable, and flexible networked applications. It explores the inherent design complexities of concurrent networked applications and the tradeoffs that must be considered when working to master them. C++ Network Programming begins with an overview of the issues and tools involved in writing distributed concurrent applications. The book then provides the essential design dimensions, patterns, and principles needed to develop flexible and efficient concurrent networked applications. The book's expert author team shows you how to enhance design skills while applying C++ and patterns effectively to develop object-oriented networked applications. Readers will find coverage of: C++ network programming, including an overview and strategies for addressing common development challenges The ACE Toolkit Connection protocols, message exchange, and message-passing versus shared memory Implementation methods for reusable networked application services Concurrency in object-oriented network programming Design principles and patterns for ACE wrapper facades With this book, C++ developers have at their disposal the most complete toolkit available for developing successful, multiplatform, concurrent networked applications with ease and efficiency.