

TCP/IP Sockets in Java: Practical Guide for Programmers



Kenneth L. Calvert

Michael J. Donahoo

Tcpip Sockets In Java Practical Guide For Programmers

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Tcpip Sockets In Java Practical Guide For Programmers:

TCP/IP Sockets in Java Kenneth L. Calvert, Michael J. Donahoo, 2011-08-29 The networking capabilities of the Java platform have been extended considerably since the first edition of the book This new edition covers version 1.5.1.7 the most current iterations as well as making the following improvements The API application programming interface reference sections in each chapter which describe the relevant parts of each class have been replaced with i a summary section that lists the classes and methods used in the code and ii a gotchas section that mentions nonobvious or poorly documented aspects of the objects In addition the book covers several new classes and capabilities introduced in the last few revisions of the Java platform New abstractions to be covered include `NetworkInterface` `InterfaceAddress` `Inet4Address` `SocketAddress` `InetSocketAddress` `Executor` and others extended access to low level network information support for IPv6 more complete access to socket options and scalable I/O The example code is also modified to take advantage of new language features such as annotations enumerations as well as generics and implicit iterators where appropriate Most Internet applications use sockets to implement network communication protocols This book's focused tutorial based approach helps the reader master the tasks and techniques essential to virtually all client server projects using sockets in Java Chapter 1 provides a general overview of networking concepts to allow readers to synchronize the concepts with terminology Chapter 2 introduces the mechanics of simple clients and servers Chapter 3 covers basic message construction and parsing Chapter 4 then deals with techniques used to build more robust clients and servers Chapter 5 NEW introduces the scalable interface facilities which were introduced in Java 1.5 including the buffer and channel abstractions Chapter 6 discusses the relationship between the programming constructs and the underlying protocol implementations in more detail Programming concepts are introduced through simple program examples accompanied by line by line code commentary that describes the purpose of every part of the program No other resource presents so concisely or so effectively the material necessary to get up and running with Java sockets programming Focused tutorial based instruction in key sockets programming techniques allows reader to quickly come up to speed on Java applications Concise and up to date coverage of the most recent platform 1.7 for Java applications in networking technology

[TCP/IP Sockets in C](#) Michael J. Donahoo, Kenneth L. Calvert, 2002-02-13 For example code from the text Winsock adaptations of text code sample programming exercises and more click on the grey COMPANION SITE button to the right Note This title was formerly known as Pocket Guide to TCP/IP Socket Programming in C ISBN 1 55860 686 6 TCP/IP Sockets in C Practical Guide for Programmers is a quick and affordable way to gain the knowledge and skills you need to develop sophisticated and powerful networked based programs using sockets Written by two experienced networking instructors this book provides a series of examples that demonstrate basic sockets techniques for clients and servers Using plenty of real world examples this book is a complete beginner's guide to socket programming and a springboard to more advanced networking topics including multimedia protocols Concise no nonsense explanations of issues

often troublesome for beginners including message construction and parsing Comprehensive example based coverage of the most important TCP IP techniques including iterative and concurrent servers timeouts and asynchronous message processing Includes a detailed easy to use reference to the system calls and auxiliary routines that comprise the sockets interface A companion Web site provides source code for all example programs in both C and WinSock versions as well as guidance on running the code on various platforms

TCP/IP Sockets in Java Kenneth Calvert, Michael Donahoo, 2011 The networking capabilities of the Java platform have been extended considerably since the first edition of the book This new edition covers version 1.5.1.7 the most current iterations as well as making the following improvements The API application programming interface reference sections in each chapter which describe the relevant parts of each class have been replaced with i a summary section that lists the classes and methods used in the code and ii a gotchas section that mentions nonobvious or poorly documented aspects of the objects In addition the book covers several new classes and capabilities introduced in the last few revisions of the Java platform New abstractions to be covered include `NetworkInterface` `InterfaceAddress` `Inet4Address` `SocketAddress` `InetSocketAddress` `Executor` and others extended access to low level network information support for IPv6 more complete access to socket options and scalable I/O The example code is also modified to take advantage of new language features such as annotations enumerations as well as generics and implicit iterators where appropriate Most Internet applications use sockets to implement network communication protocols This book's focused tutorial based approach helps the reader master the tasks and techniques essential to virtually all client server projects using sockets in Java Chapter 1 provides a general overview of networking concepts to allow readers to synchronize the concepts with terminology Chapter 2 introduces the mechanics of simple clients and servers Chapter 3 covers basic message construction and parsing Chapter 4 then deals with techniques used to build more robust clients and servers Chapter 5 NEW introduces the scalable interface facilities which were introduced in Java 1.5 including the buffer and channel abstractions Chapter 6 discusses the relationship between the programming constructs and the underlying protocol implementations in more detail Programming concepts are introduced through simple program examples accompanied by line by line code commentary that describes the purpose of every part of the program The book's Web site contains many examples of command based sockets related code discussed throughout the book No other resource presents so concisely or so effectively the material necessary to get up and running with Java sockets programming

KEY FEATURES Focused tutorial based instruction in key sockets programming tec

Wireless Communications & Networking Vijay Garg, 2010-07-28 This book provides comprehensive coverage of mobile data networking and mobile communications under a single cover for diverse audiences including managers practicing engineers and students who need to understand this industry In the last two decades many books have been written on the subject of wireless communications and networking However mobile data networking and mobile communications were not fully addressed in a unified fashion This book fills that gap in the literature and is written to

provide essentials of wireless communications and wireless networking including Wireless Personal Area Networks WPAN Wireless Local Area Networks WLAN and Wireless Wide Area Networks WWAN The first ten chapters of the book focus on the fundamentals that are required to study mobile data networking and mobile communications Numerous solved examples have been included to show applications of theoretical concepts In addition unsolved problems are given at the end of each chapter for practice A solutions manual will be available After introducing fundamental concepts the book focuses on mobile networking aspects Four chapters are devoted on the discussion of WPAN WLAN WWAN and internetworking between WLAN and WWAN Remaining seven chapters deal with other aspects of mobile communications such as mobility management security cellular network planning and 4G systems A unique feature of this book that is missing in most of the available books on wireless communications and networking is a balance between the theoretical and practical concepts Moreover this book can be used to teach a one two semester course in mobile data networking and mobile communications to ECE and CS students Details the essentials of Wireless Personal Area Networks WPAN Wireless Local Area Networks WLAN and Wireless Wide Area Networks WWAN Comprehensive and up to date coverage including the latest in standards and 4G technology Suitable for classroom use in senior first year grad level courses Solutions manual and other instructor support available

The Illustrated Network Walter Goralski, 2009-10-01 In 1994 W Richard Stevens and Addison Wesley published a networking classic TCP/IP Illustrated The model for that book was a brilliant unfettered approach to networking concepts that has proven itself over time to be popular with readers of beginning to intermediate networking knowledge The Illustrated Network takes this time honored approach and modernizes it by creating not only a much larger and more complicated network but also by incorporating all the networking advancements that have taken place since the mid 1990s which are many This book takes the popular Stevens approach and modernizes it employing 2008 equipment operating systems and router vendors It presents an illustrated explanation of how TCP/IP works with consistent examples from a real working network configuration that includes servers routers and workstations Diagnostic traces allow the reader to follow the discussion with unprecedented clarity and precision True to the title of the book there are 330 diagrams and screen shots as well as topology diagrams and a unique repeating chapter opening diagram Illustrations are also used as end of chapter questions A complete and modern network was assembled to write this book with all the material coming from real objects connected and running on the network not assumptions Presents a real world networking scenario the way the reader sees them in a device agnostic world Doesn't preach one platform or the other Here are ten key differences between the two Stevens Goralski's Older operating systems AIX svr4 etc Newer OSs XP Linux FreeBSD etc Two routers Cisco Telebit obsolete Two routers M series J series Slow Ethernet and SLIP link Fast Ethernet Gigabit Ethernet and SONET SDH links modern Tcpdump for traces Newer better utility to capture traces Ethereal now has a new name No IPSec IPsec No multicast Multicast No router security discussed Firewall routers detailed No Web Full Web browser HTML consideration No

IPv6 IPv6 overview Few configuration details More configuration details ie SSH SSL MPLS ATM FR consideration wireless LANS OSPF and BGP routing protocols New Modern Approach to Popular Topic Adopts the popular Stevens approach and modernizes it giving the reader insights into the most up to date network equipment operating systems and router vendors Shows and Tells Presents an illustrated explanation of how TCP IP works with consistent examples from a real working network configuration that includes servers routers and workstations allowing the reader to follow the discussion with unprecedented clarity and precision Over 330 Illustrations True to the title there are 330 diagrams screen shots topology diagrams and a unique repeating chapter opening diagram to reinforce concepts Based on Actual Networks A complete and modern network was assembled to write this book with all the material coming from real objects connected and running on the network bringing the real world not theory into sharp focus *Deploying IP and MPLS QoS for Multiservice Networks* John William Evans, Clarence Filisfilis, 2010-07-26 QoS short for quality of service is one of the most important goals a network designer or administrator will have Ensuring that the network runs at optimal precision with data remaining accurate traveling fast and to the correct user are the main objectives of QoS The various media that fly across the network including voice video and data have different idiosyncrasies that try the dimensions of the network This malleable network architecture poses an always moving potential problem for the network professional The authors have provided a comprehensive treatise on this subject They have included topics such as traffic engineering capacity planning and admission control This book provides real world case studies of QoS in multiservice networks These case studies remove the mystery behind QoS by illustrating the how what and why of implementing QoS within networks Readers will be able to learn from the successes and failures of these actual working designs and configurations Helps readers understand concepts of IP QoS by presenting clear descriptions of QoS components architectures and protocols Directs readers in the design and deployment of IP QoS networks through fully explained examples of actual working designs Contains real life case studies which focus on implementation *Content Networking* Markus Hofmann, Leland R. Beaumont, 2005-03-24 As the Internet has grown so have the challenges associated with delivering static streaming and dynamic content to end users This book is unique in that it addresses the topic of content networking exclusively and comprehensively tracing the evolution from traditional web caching to today's open and vastly more flexible architecture With this evolutionary approach the authors emphasize the field's most persistent concepts principles and mechanisms the core information that will help you understand why and how content delivery works today and apply that knowledge in the future Focuses on the principles that will give you a deep and timely understanding of content networking Offers dozens of protocol specific examples showing how real life Content Networks are currently designed and implemented Provides extensive consideration of Content Services including both the Internet Content Adaptation Protocol ICAP and Open Pluggable Edge Services OPES Examines methods for supporting time constrained media such as streaming audio and video and real time media such as instant messages Combines the vision and

rigor of a prominent researcher with the practical experience of a seasoned development engineer to provide a unique combination of theoretical depth and practical application

Java Cryptography Extensions Jason Weiss,2004-03-12 Today s digital environment demands that every application design consider security early on in the design process This title details a set of Java Cryptography Extensions JCE and includes code examples and a supplemental open source cryptography toolkit

Technical, Commercial and Regulatory Challenges of QoS XiPeng Xiao,2008-10-27 Technical Commerical and Regulatory Challenges of QoS provides a comprehensive examination of Internet QoS theory standards vendor implementation and network deployment from the practitioner s point of view including extensive discussion of related economic and regulatory issues Written in a technology light way so that a variety of professionals and researchers in the information and networking industries can easily grasp the material Includes case studies based on real world experiences from industry The author starts by discussing the economic regulatory and technical challenges of the existing QoS model Key coverage includes defining a clear business model for selling and buying QoS in relation to current and future direction of government regulation and QoS interoperability or lack thereof between carriers and networking devices The author then demonstrates how to improve the current QoS model to create a clear selling point less regulation uncertainty and higher chance of deployment success This includes discussion of QoS re packaging to end users economic and regulatory benefits of the re packaging and the overall benefits of an improved technical approach Finally the author discusses the future evolution of QoS from an Internet philosophy perspective and lets the reader draw the conclusions This book is the first QoS book to provide in depth coverage on the commercial and regulatory aspects of QoS in addition to the technical aspect From that readers can grasp the commercial and regulatory issues of QoS and their implications on the overall QoS business model This book is also the first QoS book to provide case studies of real world QoS deployments contributed by the people who did the actual deployments From that readers can grasp the practical issues of QoS in real world This book is also the first QoS book to cover both wireline QoS and wireless QoS Readers can grasp the QoS issues in the wireless world The book was reviewed and endorsed by a long list of prominent industrial and academic figures Discusses QoS technology in relation to economic and regulatory issues Includes case studies based on real world examples from industry practitioners Provides unique insight into how to improve the current QoS model to create a clear selling point less regulatory uncertainty and higher chance of deployment success

Smart Phone and Next Generation Mobile Computing Pei Zheng,Lionel Ni,2010-07-19 This in depth technical guide is an essential resource for anyone involved in the development of smart mobile wireless technology including devices infrastructure and applications Written by researchers active in both academic and industry settings it offers both a big picture introduction to the topic and detailed insights into the technical details underlying all of the key trends Smart Phone and Next Generation Mobile Computing shows you how the field has evolved its real and potential current capabilities and the issues affecting its future direction It lays a solid foundation for the decisions you face in your

work whether you're a manager, engineer, designer, or entrepreneur. Covers the convergence of phone and PDA functionality on the terminal side and the integration of different network types on the infrastructure side. Compares existing and anticipated wireless technologies focusing on 3G cellular networks and wireless LANs. Evaluates terminal side operating systems programming environments including Microsoft Windows Mobile, Palm OS, Symbian J2ME, and Linux. Considers the limitations of existing terminal designs and several pressing application design issues. Explores challenges and possible solutions relating to the next phase of smart phone development as it relates to services, devices, and networks. Surveys a collection of promising applications in areas ranging from gaming to law enforcement to financial processing.

TCP/IP Sockets in C, 2nd Edition Michael Donahoo, Kenneth Calvert, 2009. 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.

Computer Networks
Larry L. Peterson, Bruce S. Davie, 2007-03-08. This volume reflects recent changes in networking technology. Using a systems approach focused on the Internet, it helps gain an enduring understanding of networks and their building blocks.

MPLS: Next Steps Bruce S. Davie, Adrian Farrel, 2008-06-11. Multiprotocol Label Switching (MPLS) is a data plane and control technology that is used in packet that is Internet Protocol networks. Now over ten years old, it has taken root firmly as a fundamental tool in many service provider networks. The last ten years have seen a considerable consolidation of MPLS techniques and protocols. This has resulted in the abandoning of some of the original features of MPLS and the development of other new features. MPLS has moved from a prospective solution to a grown-up technology. Now that MPLS has reached this level of maturity, these new tools and features allow more sophisticated services to the users of the network. These tools and features are discussed within various contexts throughout several networking-related books published by MK, and this presents us with a unique publishing opportunity. The proposed book is a best-of-the-best collection of existing content from several books MK has published in recent years on MPLS technology: multi-label protocol switching. Individual chapters on MPLS technology are derived from a handful of MK books and are combined in one new volume in a way that makes sense as a reference work for those interested in new and developing aspects of this technology, i.e., network operators and designers.

who need to determine which aspects of their networks would benefit from MPLS technology and applications It also serves as a definitive reference for engineers implementing MPLS based products This book represents a quick and efficient way to bring valuable content together from leading experts in the field while creating a one stop shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources Suitable and current content will be collected from the following titles Evans Deploying IP and MPLS QoS 2006 Farrel GMPLS 2005 Ash Traffic Engineering 2006 Vasseur Network Recovery 2005 Farrel The Internet and Its Protocols 2004 Nadeau MPLS Management 2003 and Davie MPLS Technology and Applications 2000 These chapters will be updated where necessary and two new chapters will be added at the beginning and the end of the book to bring the content into focus and discuss next generation developments Coverage of major applications of MPLS such as traffic engineering VPNs IP integration GMPLS and QoS written by leading experts in the field contributes to your practical knowledge of this key technology Shows you how to implement various MPLS applications that will result in saving your organization time and money Shows you how you can evaluate MPLS applications and techniques in relation to one another so you can develop an optimum network design

Network Routing ,2010-07-19 Network routing can be broadly categorized into Internet routing PSTN routing and telecommunication transport network routing This book systematically considers these routing paradigms as well as their interoperability The authors discuss how algorithms protocols analysis and operational deployment impact these approaches A unique feature of the book is consideration of both macro state and micro state in routing that is how routing is accomplished at the level of networks and how routers or switches are designed to enable efficient routing In reading this book one will learn about 1 the evolution of network routing 2 the role of IP and E 164 addressing in routing 3 the impact on router and switching architectures and their design 4 deployment of network routing protocols 5 the role of traffic engineering in routing and 6 lessons learned from implementation and operational experience This book explores the strengths and weaknesses that should be considered during deployment of future routing schemes as well as actual implementation of these schemes It allows the reader to understand how different routing strategies work and are employed and the connection between them This is accomplished in part by the authors use of numerous real world examples to bring the material alive Bridges the gap between theory and practice in network routing including the fine points of implementation and operational experience Routing in a multitude of technologies discussed in practical detail including IP MPLS PSTN and optical networking Routing protocols such as OSPF IS IS BGP presented in detail A detailed coverage of various router and switch architectures A comprehensive discussion about algorithms on IP lookup and packet classification Accessible to a wide audience due to its vendor neutral approach **The Struts Framework** Sue Spielman,2002-11-02 Struts is an open source framework that integrates with standard Java technologies and lets developers build web applications quickly and effectively In much the same way that Java has overtaken C Struts is well poised to become the

framework for web application development because of its ability to address the types of issues engineers face when building large scale web applications The Struts Framework Practical Guide for Java Programmers meets the needs of this large audience estimated today at 2.5 million Java programmers and growing It provides the systematic exploration required by newcomers as well as the step by step instruction for more experienced readers eager to exploit Struts to the fullest Devoted to the latest version of the framework v 1.1 and vividly illustrated with a thorough sample application throughout this book is an essential resource for all programmers who want to be part of the next stage in the evolution of the web Hard to find practical coverage from a highly visible figure in the Java development world Among the first books to cover the latest release of Struts version 1.1 Reviews all the technologies comprising Struts including JavaServer Pages Servlets XML Custom Tags and web and application servers Teaches readers the development practices including design debugging internationalization and implementation essential to Struts development

Operating Systems Concepts with Java Abraham Silberschatz, Greg Gagne, Peter B. Galvin, 2004 New edition of the bestseller provides readers with a clear description of the concepts that underlie operating systems Uses Java to illustrate many ideas and includes numerous examples that pertain specifically to popular operating systems such as UNIX Solaris 2 Windows NT and XP Mach the Apple Macintosh OS IBM's OS 2 and Linux Style is even more hands on than the previous edition with extensive programming examples written in Java and C New coverage includes recent advances in Windows 2000 XP Linux Solaris 9 and Mac OS X Detailed case studies of Windows XP and Linux give readers full coverage of two very popular operating systems Also available from the same authors the highly successful Operating System Concepts Sixth Edition 0 471 25060 0

TCP/IP Sockets in C# David Makofske, Michael J. Donahoo, Kenneth L. Calvert, 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

Network Analysis, Architecture and Design James D. McCabe, 2003 Written by a seasoned network architect who has led numerous design projects in government commercial and academic spaces this volume is significantly updated to include an entirely new section on architecture as well as containing completely revised material on analysis and design

Dr. Dobb's Journal, 2004

Telecommunications Law in the Internet Age Sharon K. Black, 2002 Telecommunications law is a subject that needs clear synthesis and focus as the picture shifts to reveal a new global telecom market Sharon Black has undertaken the remarkable task of demystifying this area of the law and explaining the key issues that affect businesses and individuals at the state national and international level This book should be on the shelves of anyone who is interested in the rights obligations and policies governing modern communications Brent Alderfer President Community Energy Inc and former Public Utility Commissioner Sharon Black's book provides a broad treatment of law related to the new telecommunications industry Practicing professionals should consider this an essential reference to be effective in this dynamic industry Martin

Weiss Chairman of the Department of Information Science and Telecommunications University of Pittsburgh hr size 1
noshade For companies in and around the telecommunications field the past few years have been a time of extraordinary
change technologically and legally The enacting of the Telecommunications Act of 1996 and the development of international
trade agreements have fundamentally changed the environment in which your business operates creating risks
responsibilities and opportunities that were not there before Until now you d have had a hard time finding a serious business
book that offered any more than a cursory glance at this transformed world But at last there s a resource you can depend on
for in depth analysis and sound advice Written in easy to understand language Telecommunications Law in the Internet Age
systematically examines the complex interrelationships of new laws new technologies and new business practices and equips
you with the practical understanding you need to run your enterprise optimally within today s legal boundaries Features
Offers authoritative coverage from a lawyer and telecommunications authority who has been working in the field for over
three decades Examines telecommunications law in the U S at both the federal and state level Presents an unparalleled
source of information on international trade regulations and their effects on the industry Covers the modern
telecommunications issues with which most companies are grappling wireless communication e commerce satellite systems
privacy and encryption Internet taxation export controls intellectual property spamming pornography Internet telephony
extranets and more Provides guidelines for preventing inadvertent violations of telecommunications law Offers guidance on
fending off legal and illegal attacks by hackers competitors and foreign governments Helps you do more than understand and
obey the law helps you thrive within it

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Tcpip Sockets In Java Practical Guide For Programmers Introduction

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