



# TCP/IP Sockets

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- `mySock = socket(family, type, protocol);`
- TCP/IP-specific sockets

	Family	Type	Protocol
TCP	PF_INET	SOCK_STREAM	IPPROTO_TCP
UDP		SOCK_DGRAM	IPPROTO_UDP

- Socket reference
  - File (socket) descriptor in UNIX
  - Socket handle in WinSock

# Tcp Ip Sockets In C Practical Guide For Programmers

**Kenneth L. Calvert, Michael J. Donahoo**

## **Tcp Ip Sockets In C Practical Guide For Programmers:**

*TCP/IP Sockets in C* Michael J. Donahoo, Kenneth L. Calvert, 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 *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

**TCP/IP Sockets in C** Michael J. Donahoo, Kenneth L. Calvert, 2009 **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 **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

**Bluetooth Application Programming with the Java APIs** C Bala Kumar, Paul J. Kline, Timothy J. Thompson, 2004

About the Authors C Bala Kumar is a Distinguished Member of the Technical Staff at Motorola He chaired the industry expert group that defined the Java APIs for Bluetooth wireless technology He currently leads the systems software team for wireless platforms in Motorola's Semiconductor Products Sector Paul J Kline is a Distinguished Member of the Technical Staff at Motorola and the maintenance lead for the JABWT specification He currently works on the System Software Architecture team in Motorola's Semiconductor Products Sector Timothy J Thompson is a Senior Software Engineer on the System Software Architecture team in Motorola's Semiconductor Products Sector He was the OBEX architect on the JABWT specification team at Motorola

*Technical, Commercial and Regulatory Challenges of QoS* XiPeng Xiao, 2008-10-27

*Technical Commercial 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 regulatory 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

Bluetooth Application Programming with the Java APIs Essentials Edition Timothy J. Thompson, C Bala Kumar, Paul J. Kline, 2008-04-02 Adoption of Bluetooth wireless technology has become ubiquitous in the last few years One of the biggest steps forward is the standardization of Java APIs for Bluetooth wireless technology JABWT The latest updates to this standard is explained in detail in this book The JABWT standard defined by the JSR 82 Java Specification Request supports rapid development of Bluetooth applications that are portable secure and highly usable Wireless device manufacturers have responded overwhelmingly to the JABWT specification by implementing JABWT applications in mobile phones and other personal wireless communications products Bluetooth Application Programming Essentials Programming with the Java APIs explains in detail how to write Bluetooth applications using the Java APIs to exploit the power of both technologies Written by the specification lead for JSR 82 and two other key participants in developing the standards of JABWT this book provides the authoritative explanations and concrete examples needed to get started right away This book provides embedded Java developers with to the point information on the APIs in the specification with detailed programmatic examples of the APIs in use A NEW chapter on the Push Registry definition a new feature in the 1.1 version of JSR 82 has been added Finally the new Essentials version of the book will update the remaining chapters to reflect changes in the latest Bluetooth spec 2.1 and the industry as a whole By focusing only on the essentials this concise resource enables software and hardware vendors to quickly develop Bluetooth applications for mobile devices in an increasingly competitive market The updated material examines crucial programming areas including RFCOMM OBEX device discovery service discovery and L2CAP which allows developers to not only successfully design but

master and build Java APIs for Bluetooth Wireless Technology Includes a new and valuable chapter that delineates the pivotal Push Registry feature a recent development that will help programmers avoid the common problem of connection collision By providing real world issues and problems involved in implementing the Java APIs specification the book allows developers to identify with the text and encourages repeated reference **Dr. Dobb's Journal**, 2004 *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 *The Pocket Guide to TCP/IP Sockets* Michael J. Donahoo, Kenneth L. Calvert, 2001 Mastering the sockets interface is essential for computer network programmers and practitioners who want to learn how to write programs that communicate using the network This book provides an introduction to socket programming

*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

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**The British National Bibliography** Arthur James Wells,2009 *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

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