

In-Depth Network Programming in C++

Mirzakhmet Syzdykov 20 May 2023 Network programming in C++

We provide the system primitives on the example of two networking programs, or utilities, which work on the Transfer Control Protocol (TCP) and User Datagram Protocol (UDP) for basic and system operations

- [Download source code for CPing - 355 KB](#)
- [Download source code for CSocks - 3.4 MB](#)

Introduction

In this article, we introduce the basic primitives used to work with sockets, which are defined in `winsock2.h` file for the version 2.0.

We will also present the two useful utility programs which solve various networking tasks.

Of course, we could use Microsoft Foundation Classes (MFC) for asynchronous programming, however, our approach is more optimal for system network programming.

Thus, CPing program presented in this article is a utility which pings user-defined protocols and measures the speed of connection.

Another example like CSocks presents the tunneling algorithm for proxying on SOCKS-5 protocol for messengers like Internet Relay Chat (IRC).

Background

The article is to be studied according to the Request For Comment (RFC) standard for **CSocks** project as it uses the command order for SOCKS-4/5 internet TCP protocol and, thus, operates on user or higher level, rather, than same "ping" utility which operates on system level and protocol like Internet Control Message Protocol (ICMP).

Thus, we introduce the same ping utility in **CPing** project, which works as is in order to test functionality of HyperText Transfer Protocol (HTTP) and others that operate on the user-defined level.

Using the Code

Before proceeding to the description of programming techniques for network programming using sockets, we will describe several functions of **Winsock** API:

- **socket()** - create socket entity
- **send()** - send data packet to the end point of socket
- **recv()** - receive data packet from the same end point
- **setsockopt()** - set socket options like timeout, etc.
- **connect()** - connect to the end point of socket which differs from the host machine on which the networking program works
- **select()** - select the present time active socket on which the actions were made from the end point

Network Programming Guide

Derek Johnson



Network Programming Guide:

Beej's Guide to Network Programming Brian "Beej Jorgensen." Hall, 2009 *Network Programming Guide* Sun Microsystems Inc. Mountain View, Calif., 1990 **Network Programming Guide** Sun Microsystems, 1990 **Network Programming with Go** Adam Woodbeck, 2021-03-25

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Foundations of Python Network Programming John Goerzen, Tim Bower, Brandon Rhodes, 2011-02-24 This second edition of Foundations of Python Network Programming targets Python 2 5 through Python 2 7 the most popular production versions of the language Python has made great strides since Apress released the first edition of this book back in the days of Python 2 3 The advances required new chapters to be written from the ground up and others to be extensively revised You will learn fundamentals like IP TCP DNS and SSL by using working Python programs you will also be able to familiarize yourself with infrastructure components like memcached and message queues You can also delve into network server designs and compare threaded approaches with asynchronous event based solutions But the biggest change is this edition s expanded treatment of the web The HTTP protocol is covered in extensive detail with each feature accompanied by sample Python code You can use your HTTP protocol expertise by studying an entire chapter on screen scraping and you can then test lxml and BeautifulSoup against a real world web site The chapter on web application programming now covers both the WSGI standard for component interoperability as well as modern web frameworks like Django Finally all of the old favorites from the first edition are back E mail protocols like SMTP POP and

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 Censored, 2003-10-07 The yearly volumes of Censored in continuous publication since 1976 and since 1995 available through
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 of media bias and self censorship The top stories are listed democratically in order of importance according to students
 faculty and a national panel of judges Each of the top stories is presented at length alongside updates from the investigative
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 introduces embedded systems to C and C programmers Topics include testing memory devices writing and erasing flash
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 now covers firewalls including the use of ipchains and Netfilter masquerading and accounting Other new topics in this
 second edition include Novell NCP IPX support and INN news administration **POSIX Programmers Guide** Donald
 Lewine, 1991-04 Software Operating Systems **Hearings** United States. Congress. House, 1965 **The State of**
Wisconsin Blue Book , 1979 **Blue Book** , 1981 *Popular Science* , 2000-09 Popular Science gives our readers the
 information and tools to improve their technology and their world The core belief that Popular Science and our readers share
 The future is going to be better and science and technology are the driving forces that will help make it better **Hearings**
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