

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

Michael Seilmaier



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