



Boost.Asio C++ Network Programming - Second Edition

Wisnu Anggoro, John Torjo

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Learn effective C++ network programming with Boost.Asio and become a proficient C++ network programmer

About This Book

- Learn efficient C++ network programming with minimum coding using Boost.Asio
- Your one-stop destination to everything related to the Boost.Asio library
- Explore the fundamentals of networking to choose designs with more examples, and learn the basics of Boost.Asio

Who This Book Is For

This book is for C++ Network programmers with basic knowledge of network programming, but no knowledge of how to use Boost.Asio for network programming.

What You Will Learn

- Prepare the tools to simplify network programming in C++ using Boost.Asio
- Explore the networking concepts of IP addressing, TCP/IP ports and protocols, and LAN topologies
- Get acquainted with the usage of the Boost libraries
- Get to know more about the content of Boost.Asio network programming and Asynchronous programming
- Establish communication between client and server by creating client-server application
- Understand the various functions inside Boost.Asio C++ libraries to delve into network programming
- Discover how to debug and run the code successfully

In Detail

Boost.Asio is a C++ library used for network programming operations.

Organizations use Boost because of its productivity. Use of these high-quality libraries speed up initial development, result in fewer bugs, reduce reinvention-of-the-wheel, and cut long-term maintenance costs. Using Boost libraries gives an organization a head start in adopting new technologies.

This book will teach you C++ Network programming using synchronous and asynchronous operations in Boost.Asio with minimum code, along with the fundamentals of Boost, server-client applications, debugging, and more.

You will begin by preparing and setting up the required tools to simplify your network programming in C++ with Boost.Asio. Then you will learn about the basic concepts in networking such as IP addressing, TCP/IP protocols, and LAN with its topologies. This will be followed by an overview of the Boost libraries and their usage.

Next you will get to know more about Boost.Asio and its concepts related to network programming. We will then go on to create a client-server application, helping you to understand the networking concepts. Moving on, you will discover how to use all the functions inside the Boost.Asio C++ libraries. Lastly, you will understand how to debug the code if there are errors found and will run the code successfully.

Style and approach

An example-oriented book to show you the basics of networking and help you create a network application simply using Boost.Asio, with more examples for you to get up and running with Boost.Asio quickly.

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