



Boost.Asio C++ Network Programming

Enhance your skills with practical examples for C++ network programming

John Torjo

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Wisnu Anggoro, John Torjo

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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 successfullyIn DetailBoost 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 approachAn 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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interoperability issues to enable your applications to work in a heterogeneous environment. In Detail Network aware applications are becoming more prevalent and play an ever increasing role in the world today. Connecting and using an Internet based service is a frequent requirement for many applications. Java provides numerous classes that have evolved over the years to meet evolving network needs. These range from low level socket and IP based approaches to those encapsulated in software services. This book explores how Java supports networks starting with the basics and then advancing to more complex topics. An overview of each relevant network technology is presented followed by detailed examples of how to use Java to support these technologies. We start with the basics of networking and then explore how Java supports the development of client server and peer to peer applications. The NIO packages are examined as well as multitasking and how network applications can address practical issues such as security. A discussion on networking concepts will put many network issues into perspective and let you focus on the appropriate technology for the problem at hand. The examples used will provide a good starting point to develop similar capabilities for many of your network needs. Style and approach: Each network technology's terms and concepts are introduced first. This is followed up with code examples to explain these technologies. Many of the examples are supplemented with alternate Java 8 solutions when appropriate. Knowledge of Java 8 is not necessary but these examples will help you better understand the power of Java 8.

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