



Introduction to the Boost C++ Libraries; Volume II - Advanced Libraries

Robert Demming, Daniel J. Duffy

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This book is the follow-up of the Boost Volume I book and it has been written for software developers who use Boost C++ libraries to create flexible applications. We discuss approximately 20 advanced libraries that can be classified into the following major categories:

- Mathematics: special functions, statistical distributions, interval arithmetic and matrix algebra.
- Special data structures: date and time, circular buffer, UUID, dynamic bitsets, pool memory.
- TCP and UDP portable network programming using the software interface.
- Interprocess communication and shared memory programming models.
- Three chapters on graphs, graph algorithms and their implementation in Boost.

The focus is hands-on and each library is discussed in detail and numerous working examples are given to get the reader up to speed as soon as possible. Each library is described in a step-by-step fashion and you can use the corresponding code as a basis for more advanced applications.

These libraries are the ideal basis for new applications. We shall use them in Volume III of the current series when we discuss applications to engineering, science and computational finance.

Chapters:

1. The Boost C++ Libraries Overview
2. Math Toolkit: Special Functions
3. Math Toolkit: Orthogonal Functions
4. Date and Time
5. Some Building Block Data Structures and Libraries
6. Matrix Algebra in Boost Part I: uBLAS Data Structures
7. Matrix Algebra in Boost Part II: Advanced Features and Applications
8. An Introduction to Networking Programming Concepts and Protocols
9. Boost ASIO: Synchronous Operations
10. Boost ASIO: Asynchronous Operations
11. Boost Interprocess: IPC Mechanisms
12. Boost Interprocess: Process Synchronisation
13. Interval Arithmetic
14. User-defined Memory Allocation: Boost Pool
15. An Introduction to Graph Theory and Graph Algorithms
16. The Boost Graph Library (BGL) Data Structures and Fundamental Algorithms
17. The Boost Graph Library (BGL) Advanced Algorithms
18. Interval Container Library
19. Boost Functional Factory

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