Beyond the C++ Standard Library

An Introduction to Boost

Björn Karlsson

Beyond The C Standard Library An Introduction To Boost

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Beyond The C Standard Library An Introduction To Boost:

Beyond the C++ Standard Library Bjorn Karlsson,2005-08-31 Introducing the Boost libraries the next breakthrough in C programming Boost takes you far beyond the C Standard Library making C programming more elegant robust and productive Now for the first time a leading Boost expert systematically introduces the broad set of Boost libraries and teaches best practices for their use Writing for intermediate to advanced C developers Bj rn Karlsson briefly outlines all 58 Boost libraries and then presents comprehensive coverage of 12 libraries you re likely to find especially useful Karlsson s topics range from smart pointers and conversions to containers and data structures explaining exactly how using each library can improve your code He offers detailed coverage of higher order function objects that enable you to write code that is more concise expressive and readable He even takes you behind the scenes with Boost revealing tools and techniques for creating your own generic libraries Coverage includes Smart pointers that provide automatic lifetime management of objects and simplify resource sharing Consistent best practice solutions for performing type conversions and lexical conversions Utility classes that make programming simpler and clearer Flexible container libraries that solve common problems not covered by the C Standard Library Powerful support for regular expressions with Boost Regex Function objects defined at the call site with Boost Bind and Boost Lambda More flexible callbacks with Boost Function Managed signals and slots a k a the Observer pattern with Boost Signals The Boost libraries are proving so useful that many of them are planned for inclusion in the next version of the C Standard Library Get your head start now with Beyond the C Standard Library **Lecture Slides for Programming in C++ (Version 2020-02-29)** Michael D. Adams,2020-02-29 This document which consists of approximately 2500 lecture slides offers a wealth of information on many topics relevant to programming in C including coverage of the C language itself the C standard library and a variety of other libraries numerous software tools and an assortment of other programming related topics The coverage of the C language and standard library is current with the C 17 standard *The C++ Standard Library* Nicolai M. Josuttis,2012-05-25 The Best Selling C Resource Now Updated for C 11 The C standard library provides a set of common classes and interfaces that greatly extend the core C language The library however is not self explanatory To make full use of its components and to benefit from their power you need a resource that does far more than list the classes and their functions The C Standard Library A Tutorial and Reference Second Edition describes this library as now incorporated into the new ANSI ISO C language standard C 11 The book provides comprehensive documentation of each library component including an introduction to its purpose and design clearly written explanations of complex concepts the practical programming details needed for effective use traps and pitfalls the exact signature and definition of the most important classes and functions and numerous examples of working code The book focuses in particular on the Standard Template Library STL examining containers iterators function objects and STL algorithms The book covers all the new C 11 library components including Concurrency Fractional arithmetic Clocks and

timers Tuples New STL containers New STL algorithms New smart pointers New locale facets Random numbers and distributions Type traits and utilities Regular expressions The book also examines the new C programming style and its effect on the standard library including lambdas range based for loops move semantics and variadic templates An accompanying Web site including source code can be found at www cppstdlib com   *Lecture Slides for the C++ Programming Language (Version: 2016-01-18)* Michael D. Adams,2016-01-18 This document constitutes a detailed set of lecture slides on the C programming language and is current with the C 14 standard Many aspects of the language are covered from introductory to more advanced This material includes language basics objects types values operators expressions control flow constructs functions and namespaces classes templates function class alias and variable templates template specialization and variadic templates lambda expressions inheritance and run time polymorphism exceptions exception safety RAII and smart pointers rvalue references move semantics and perfect forwarding concurrency sequential consistency atomic memory operations data races threads mutexes condition variables promises and futures atomics and fences happens before and synchronizes with relationships and sequentially consistent and other memory models A number of best practices tips and idioms regarding the use of the language are also presented Some aspects of the C standard library are covered including containers iterators and algorithms the std vector and std basic_string classes I O streams and time measurement Various general programming related topics are also presented such as material on good programming practices finite precision arithmetic and software documentation   **Lecture Slides for Programming in C++ (Version 2019-02-04)** Michael D. Adams,2019-02-04 This document which consists of approximately 2500 lecture slides offers a wealth of information on many topics relevant to programming in C including coverage of the C language itself the C standard library and a variety of other libraries numerous software tools and an assortment of other programming related topics The coverage of the C language and standard library is current with the C 17 standard C PROGRAMMING LANGUAGE Many aspects of the C language are covered from introductory to more advanced This material includes the preprocessor language basics objects types values operators expressions control flow constructs functions and namespaces classes templates function class variable and alias templates variadic templates template specialization and SFINAE lambda expressions inheritance run time polymorphism and CRTP exceptions exception safety and RAII smart pointers memory management new and delete operators and expressions placement new and allocators rvalue references move semantics and perfect forwarding concurrency memory models and happens before and synchronizes with relationships compile time computation and various other topics e g copy elision and initialization C STANDARD LIBRARY AND VARIOUS OTHER LIBRARIES Various aspects of the C standard library are covered including containers iterators algorithms I O streams time measurement and concurrency support threads mutexes condition variables promises and futures atomics and fences A number of Boost libraries are discussed including the Intrusive Iterator and Container libraries The OpenGL library and GLSL are discussed at length along with several related

libraries including GLFW GLUT and GLM The CGAL library is also discussed in some detail SOFTWARE TOOLS A variety of software tools are discussed including static analysis tools e g Clang Tidy and Clang Static Analyzer code sanitizers e g ASan LSan MSan TSan and UBSan debugging and testing tools e g Valgrind LLVM XRay and Catch2 performance analysis tools e g Perf PAPI Gprof and Valgrind Callgrind build tools e g CMake and Make version control systems e g Git code coverage analysis tools e g Gcov LLVM Cov and Lcov online C compilers e g Compiler Explorer and C Insights and code completion tools e g YouCompleteMe and LSP clients servers   *Real-Time C++* Christopher Kormanyos,2018-05-02 With this book Christopher Kormanyos delivers a highly practical guide to programming real time embedded microcontroller systems in C It is divided into three parts plus several appendices Part I provides a foundation for real time C by covering language technologies including object oriented methods template programming and optimization Next part II presents detailed descriptions of a variety of C components that are widely used in microcontroller programming It details some of C s most powerful language elements such as class types templates and the STL to develop components for microcontroller register access low level drivers custom memory management embedded containers multitasking etc Finally part III describes mathematical methods and generic utilities that can be employed to solve recurring problems in real time C The appendices include a brief C language tutorial information on the real time C development environment and instructions for building GNU GCC cross compilers and a microcontroller circuit For this third edition the most recent specification of C 17 in ISO IEC 14882 2017 is used throughout the text Several sections on new C 17 functionality have been added and various others reworked to reflect changes in the standard Also several new sample projects are introduced and existing ones extended and various user suggestions have been incorporated To facilitate portability no libraries other than those specified in the language standard itself are used Efficiency is always in focus and numerous examples are backed up with real time performance measurements and size analyses that quantify the true costs of the code down to the very last byte and microsecond The target audience of this book mainly consists of students and professionals interested in real time C Readers should be familiar with C or another programming language and will benefit most if they have had some previous experience with microcontroller electronics and the performance and size issues prevalent in embedded systems programming

Beyond the C++ Standard Library : an Introduction to Boost Bjèorn Karlsson,2006   **Exercises for Programming in C++ (Version 2021-04-01)** Michael D. Adams,2021-04-01 This book presents a large collection of exercises for learning to program in C A study plan for learning C based on a collection of video lectures and supplemental reading is also provided

Professional C++ Christophe Pichaud,2022-11-10 This book contains all the necessary knowledge to learn think and become a professional C developer for building real world and critical software It requires some basic knowledge that could be acquired at the University Engineering Schools or just by reading the right books for the right decision C gave you the ability to create design think and implement such amazing big big stuff without limits The industry is lead by C and C Ok

everybody has heard about security memory management problem of unsecure stuff and that bla bla OK listen to me give me the list of all your applications on your laptop and I promise to you 90% of the are made with C and C So who are the dinosaurs C C developers or Marketing Clowns that wants you to drink Coc Coal and Jack Daniel s on the morning on twelve and in the afternoon The World is Built on C by Herb Sutter The C Is The Invisible Foundation of Everything by Bjarne Stroustrup Windows Office Linux LibreOffice Chrome and all the C C backed Linux shared libraries are done with native stuff From GCC Clang to CL EXE shipped with Visual Studio from my Microsoft friends in Redmond just dive and sometimes deep dive into C It s an infinite source of learning different way to cook You will embrace the way GAFAM are developing software Real World Wide software and all World Wide Critical software that makes our world running for the business the economy and the Cloud the gaming the medical the energy the military and the old embedded industry reborn as IoT is all native are using C Native World Is The Real Answer from A Complex World Note if you are a JS TS NET Java PHP developers read this book Don t be afraid An then you will know why we rule the world   **The Boost C++ Libraries** Boris Schäling, The second edition of The Boost C Libraries introduces 72 Boost libraries that provide a wide range of useful capabilities They help you manage memory and process strings more easily They provide containers and other data structures that go well beyond what the standard library offers They make it easy to build platform independent network applications Simply put these 72 libraries greatly expand your C toolbox The second edition contains more than 430 examples All examples are as short as possible but they are complete so you can compile and run them as is They show you what the Boost libraries offer and give you a head start on using the libraries in your own applications The goal of this book is to increase your efficiency as a C developer and to simplify software development with C The Boost libraries introduced in this book will help you write less code with fewer bugs and finish projects faster You code will be more concise and self explanatory and more easily adapted when requirements change The second edition is based on the Boost libraries 1 55 0 and 1 56 0 with the latter version having been released in August 2014 The examples are based on C 11 and have been tested with Visual Studio 2013 GCC 4 8 and Clang 3 3 on various platforms For Boost libraries which were incorporated into the C 11 standard library differences between Boost and the standard library are highlighted The Boost libraries are one of the most important and influential open source C libraries Their source code is available under a permissive free software license Several Boost libraries have been incorporated into the C 11 standard library The Boost libraries are developed and supported by the Boost community a worldwide developer community with a strong interest in pushing C boundaries further   *C++11 for Programmers* Paul Deitel,Harvey M. Deitel,2013-03-21 In C 11 for Programmers the Deitels bring their proven Live Code approach to teaching today s powerful new version of the C language Like all Deitel Developer titles they teach the best way possible via hundreds of complete example C programs with thousands of lines of downloadable C source code Unlike other C 11 books this guide teaches robust best practice coding practices that fully support the CERT Coordination Center s authoritative secure coding

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Index ,2006 Every 3rd issue is a quarterly cumulation   <u>Beyond the C++ Standard Library</u> Björn Karlsson,1900 Introducing the Boost libraries the next breakthrough in C programming Boost takes you far beyond the C Standard Library making C programming more elegant robust and productive Now for the first time a leading Boost expert systematically introduces the broad set of Boost libraries and teaches best practices for their use Writing for intermediate to advanced C developers Bj rn Karlsson briefly outlines all 58 Boost libraries and then presents comprehensive coverage of 12 libraries you re likely to find especially useful Karlsson s topics range from smart pointers and   *IEEE Africon* ,2004   *C/C++ Users Journal* ,2005   *Dr. Dobb's Journal* ,2005   **C++** Paul J. Deitel,Harvey M. Deitel,2010 KEY BENEFIT This comprehensive best seller is aimed at readers with little or no programming experience It teaches by presenting the concepts in the context of full working programs and takes an early objects approach The authors emphasize achieving program clarity through structured and object oriented programming software reuse and component oriented software construction KEY TOPICS Introduction to Computers the Internet and World Wide Web Introduction to C Programming Introduction to Classes and Objects Control Statements Part 1 Control Statements Part 2 Functions and an Introduction to Recursion Arrays and Vectors Pointers and Pointer Based Strings Classes A Deeper Look Part 1 Classes A Deeper Look Part 2 Object Oriented Programming Inheritance Object Oriented Programming Polymorphism Optional ATM Case Study Part 1 Object Oriented Design with the UML Optional ATM Case Study Part 2 Implementing an Object Oriented Design Exception Handling Templates Operator Overloading String and Array Objects String Processing with Class string Stream Input Output File and String Stream Processing Searching and Sorting Data Structures Standard Template Library STL Bits Characters C Strings and structs Game Programming with Ogre Boost Libraries Technical Report 1 and C 0x Other Topics Operator Precedence and Associativity Chart ASCII Character Set Fundamental Types Number Systems C Legacy Code Topics Preprocessor UML 2 Additional Diagram Types Using the Visual Studioreg 2008 Debugger Using the GNUtrade C Debugger MARKET A useful reference for programmers

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