



# Generic Programming and the STL

Using and Extending  
the C++ Standard  
Template Library

Matthew H. Austern

ADDISON-WESLEY PROFESSIONAL COMPUTING SERIES

# Generic Programming And The Stl Using And Extending The C Standard Template Library

**Christopher Kormanyos**



## **Generic Programming And The Stl Using And Extending The C Standard Template Library:**

*Generic Programming* Mehdi Jazayeri, Rüdiger G.K. Loos, David R. Musser, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the International Seminar on Generic Programming held in Dagstuhl Castle Germany in April May 1998 The 20 revised full papers were carefully reviewed for inclusion in the book As the first book entirely devoted to the new paradigm of generic programming this collection offers topical sections on foundations and methodology comparisons programming methodology language design and applications

**Generic Programming** Jeremy Gibbons, Johan Jeuring, 2013-04-17 Generic programming is about making programs more adaptable by making them more general Generic programs often embody non traditional kinds of polymorphism ordinary programs are obtained from them by suitably instantiating their parameters In contrast with normal programs the parameters of a generic program are often quite rich in structure for example they may be other programs types or type constructors class hierarchies or even programming paradigms Generic programming techniques have always been of interest both to practitioners and to theoreticians but only recently have generic programming techniques become a specific focus of research in the functional and object oriented programming language communities Generic Programming comprises the edited proceedings of the Working Conference on Generic Programming which was sponsored by the International Federation for Information Processing IFIP and held in Dagstuhl Germany in July 2002 With contributions from leading researchers around the world this volume captures the state of the art in this important emerging area

**Generic Programming and the STL** Matthew H. Austern, 1999 Introduces programmers to the generic programming paradigm and to the C Standard Template Library and its use as an extensible framework for generic and interoperable components Explains ideas underlying generic programming and shows how to create algorithms decoupled from the types and data structures they operate on and how to write more efficient code that can be used and reused across platforms Assumes familiarity with C and algorithms Annotation copyrighted by Book News Inc Portland OR

**Generic and Indexed Programming** Jeremy Gibbons, 2012-07-20 Generic programming is about making programs more widely applicable via exotic kinds of parametrization not just along the dimensions of values or of types but also of things such as the shape of data algebraic structures strategies computational paradigms and so on Indexed programming is a lightweight form of dependently typed programming constraining flexibility by allowing one to state and check relationships between parameters that the shapes of two arguments agree that an encoded value matches some type that values transmitted along a channel conform to the stated protocol and so on The two forces of genericity and indexing balance each other nicely simultaneously promoting and controlling generality The 5 lectures included in this book stem from the Spring School on Generic and Indexed Programming held in Oxford UK in March 2010 as a closing activity of the generic and indexed programming project at Oxford which took place in the years 2006 2010

C++ Templates David Vandevoorde, Nicolai M. Josuttis, 2002-11-12 Templates are among the most powerful features of C

but they are too often neglected misunderstood and misused C Templates The Complete Guide provides software architects and engineers with a clear understanding of why when and how to use templates to build and maintain cleaner faster and smarter software more efficiently C Templates begins with an insightful tutorial on basic concepts and language features The remainder of the book serves as a comprehensive reference focusing first on language details then on a wide range of coding techniques and finally on advanced applications for templates Examples used throughout the book illustrate abstract concepts and demonstrate best practices Readers learn The exact behaviors of templates How to avoid the pitfalls associated with templates Idioms and techniques from the basic to the previously undocumented How to reuse source code without threatening performance or safety How to increase the efficiency of C programs How to produce more flexible and maintainable software This practical guide shows programmers how to exploit the full power of the template features in C The companion Web site at <http://www.josuttis.com/tmplbook> contains sample code and additional updates

**Generative Programming and Component Engineering** Robert Glück, 2005-09-16 This book constitutes the refereed proceedings of the 4th International Conference on Generative Programming and Component Engineering GPCE 2005 held in Tallinn Estonia in September October 2005 The 25 revised full papers presented together with 2 tool demonstration papers were carefully selected from 86 initial submissions following a round of reviewing and improvement The papers which include three full invited papers are organized in topical sections on aspect oriented programming component engineering and templates demonstrations domain specific languages generative techniques generic programming meta programming and transformation and multi stage programming *The C++ Standard Library* Nicolai M. Josuttis, 1999 Contains full coverage of the ANSI ISO C standard The text covers classes methods interfaces and objects that make up the standard C libraries

Standard C++ IOStreams and Locales Angelika Langer, Klaus Kreft, 2000 Standard C provides a foundation for creating new improved and more powerful C components IOStreams and locales are two such major components for text internationalization As critical as these two APIs are however there are few resources devoted to explaining them Standard C IOStreams and Locales fills this informational gap It provides a comprehensive description of and reference to the iostreams and locales classes showing how to put them to use and offering advanced information on customizing and extending their basic operation Written by two experts involved with the development of the standard this book reveals the rationale behind the design of the APIs and points out their potential pitfalls This book serves as both a guide and a reference to C components Part I explains iostreams what they are how they are used their underlying architectural concepts and the techniques for extending the iostream framework Part II introduces internationalization and shows you how to adapt your program to local conventions Readers seeking an initial overview of the problem domain will find an explanation of what internationalization and localization are how they are related and how they differ With examples the authors show the differences among cultural conventions how C locales can be used to address such differences and how locale framework can

be extended to handle further nonstandard cultural conventions Standard C IOStreams and Locales Explains formatting and error indication features of iostreams in detail Describes underlying concepts of the iostreams framework Demonstrates implementation of i o operations for user defined types Shows techniques for implementing extended stream and stream buffer classes Introduces internationalization Explains how to use standard features for internationalization Demonstrates techniques for implementation of user defined internationalization services IOStreams and locales serve as a foundation library that provides a number of ready to use interfaces as well as frameworks that can be customized and extended The class reference to C IOStreams and locales completes this comprehensive resource which belongs in the libraries of all intermediate and advanced C programmers 0201183951B04062001

**Effective C++** Scott Meyers, 2005-05-12 Every C professional needs a copy of Effective C It is an absolute must read for anyone thinking of doing serious C development If you ve never read Effective C and you think you know everything about C think again Steve Schirripa Software Engineer Google C and the C community have grown up in the last fifteen years and the third edition of Effective C reflects this The clear and precise style of the book is evidence of Scott s deep insight and distinctive ability to impart knowledge Gerhard Kreuzer Research and Development Engineer Siemens AG The first two editions of Effective C were embraced by hundreds of thousands of programmers worldwide The reason is clear Scott Meyers practical approach to C describes the rules of thumb used by the experts the things they almost always do or almost always avoid doing to produce clear correct efficient code The book is organized around 55 specific guidelines each of which describes a way to write better C Each is backed by concrete examples For this third edition more than half the content is new including added chapters on managing resources and using templates Topics from the second edition have been extensively revised to reflect modern design considerations including exceptions design patterns and multithreading Important features of Effective C include Expert guidance on the design of effective classes functions templates and inheritance hierarchies Applications of new TR1 standard library functionality along with comparisons to existing standard library components Insights into differences between C and other languages e g Java C C that help developers from those languages assimilate the C way of doing things

*Seamless R and C++ Integration with Rcpp* Dirk Eddelbuettel, 2013-06-04 Rcpp is the glue that binds the power and versatility of R with the speed and efficiency of C With Rcpp the transfer of data between R and C is nearly seamless and high performance statistical computing is finally accessible to most R users Rcpp should be part of every statistician s toolbox Michael Braun MIT Sloan School of Management Seamless R and C integration with Rcpp is simply a wonderful book For anyone who uses C C and R it is an indispensable resource The writing is outstanding A huge bonus is the section on applications This section covers the matrix packages Armadillo and Eigen and the GNU Scientific Library as well as RInside which enables you to use R inside C These applications are what most of us need to know to really do scientific programming with R and C I love this book Robert McCulloch University of Chicago Booth School of Business Rcpp is now considered an essential package for anybody doing

serious computational research using R Dirk's book is an excellent companion and takes the reader from a gentle introduction to more advanced applications via numerous examples and efficiency enhancing gems The book is packed with all you might have ever wanted to know about Rcpp its cousins RcppArmadillo RcppEigen etc modules package development and sugar Overall this book is a must have on your shelf Sanjog Misra UCLA Anderson School of Management The Rcpp package represents a major leap forward for scientific computations with R With very few lines of C code one has R's data structures readily at hand for further computations in C Hence high level numerical programming can be made in C almost as easily as in R but often with a substantial speed gain Dirk is a crucial person in these developments and his book takes the reader from the first fragile steps on to using the full Rcpp machinery A very recommended book Sren H jsgaard Department of Mathematical Sciences Aalborg University Denmark Seamless R and C Integration with Rcpp provides the first comprehensive introduction to Rcpp Rcpp has become the most widely used language extension for R and is deployed by over one hundred different CRAN and BioConductor packages Rcpp permits users to pass scalars vectors matrices list or entire R objects back and forth between R and C with ease This brings the depth of the R analysis framework together with the power speed and efficiency of C Dirk Eddelbuettel has been a contributor to CRAN for over a decade and maintains around twenty packages He is the Debian Ubuntu maintainer for R and other quantitative software edits the CRAN Task Views for Finance and High Performance Computing is a co founder of the annual R Finance conference and an editor of the Journal of Statistical Software He holds a Ph D in Mathematical Economics from EHESS Paris and works in Chicago as a Senior Quantitative Analyst

*Programming with POSIX Threads* David R. Butenhof, 1997 Software Operating Systems **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 la 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 *Central European Functional Programming School* Viktória Zsók,Zoltán Porkoláb,Zoltán Horváth,2019-08-13 This volume presents the revised lecture notes of selected talks given at the 6th Central European Functional Programming School CEFPS 2015 held in July 2015 in Budapest Hungary The 10 revised full papers presented were carefully reviewed and selected The lectures covered a wide range of functional programming and C programming subjects Object Oriented Programming with C++ ANSI /ISO Standard Subburaj R.,2013 This is a comprehensive book on C It serves the needs of both new and experienced programmers to understand the concepts of this power packed language It addresses the latest revisions to the Standard C language The twin features of this language namely procedure oriented and object oriented programming have been brought out in a very crisp manner The book intends to remove the fear of containers from the minds of programmers and enable them to use the concept unambiguously and effectively More than 200 programs have been included in the book after ensuring their correctness with standard C compatible compilers such as gnu g and Code Blocks This student friendly book has no prerequisites and contains all that is needed to make the undergraduate and post graduate students expert C programmers It will be a boon to a novice as well as an experienced programmer SALIENT FEATURES More than 200 tested programs More than 300 objective type questions Review questions at the end of every chapter Includes chapters on multithreading STL and exception handling and an annexure on object oriented analysis and design Model question papers 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 standards To help you write programs that are even more secure the Deitels also introduce C 11 s new non deterministic random number generation capabilities Using all these techniques you can write industrial strength C 11 code that stands up to attacks from viruses worms and other forms of malware Ideal for anyone who s worked with at least one programming language before C 11 for Programmers utilizes a proven early objects approach emphasizing program clarity software reuse and component oriented software construction In addition to the core language it will help you take advantage of the newest standard libraries and the newest language extensions Coverage includes many new C 11 features including smart pointers regular expressions shared\_ptr and weak\_ptr and more This book contains 240 complete C 11 programs more than 15 000 lines of downloadable code All code has been thoroughly tested on three popular industrial strength C 11 compilers GNU C 4 7 Microsoft Visual C 2012 and Apple LLVM in Xcode 4 5 Real-Time C++ Christopher Kormanyos,2021-07-14 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 fourth edition the most recent specification of C 20 is used throughout the text Several sections on new C 20 functionality have been added and various others reworked to reflect changes in the standard Also several new example projects ranging from introductory to advanced level are included and existing ones extended and various reader suggestions have been incorporated Efficiency is always in focus and numerous examples are backed up with runtime 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

**Advanced UNIX Programming** Marc J. Rochkind, 2004-04-29 The classic guide to UNIX programming completely updated UNIX application programming requires a mastery of system level services Making sense of the many functions more than 1 100 functions in the current UNIX specification is a daunting task so for years programmers have turned to Advanced UNIX Programming for its clear expert advice on how to use the key functions reliably An enormous number of changes have taken place in the UNIX environment since the landmark first edition In Advanced UNIX Programming Second Edition UNIX pioneer Marc J Rochkind brings the book fully up to date with all new comprehensive coverage including POSIX Solaris™ Linux FreeBSD Darwin the Mac™ OS X kernel And more than 200 new system calls Rochkind s fully updated classic explains all the UNIX system calls you re likely to need all in a single volume Interprocess communication networking sockets pseudo terminals asynchronous I O advanced signals realtime and threads Covers the system calls you ll actually use no need to plow through hundreds of improperly implemented obsolete and otherwise unnecessary system calls Thousands of lines of example code include a Web browser and server a keystroke recorder player and a shell complete with pipelines redirection and background processes Emphasis on the practical ensuring portability avoiding pitfalls and much more Since 1985 the one book to have for mastering UNIX application programming has been Rochkind s Advanced UNIX Programming Now completely updated the second edition remains the choice for up to the minute in depth coverage of the essential system level services of the UNIX family of operating systems



**Interconnections** Radia Perlman, 2000 Perlman a bestselling author and senior consulting engineer for Sun Microsystems provides insight for building more robust reliable secure and manageable networks Coverage also includes routing and addressing strategies VLANs multicasting IPv6 and more *Code Quality* Diomidis Spinellis, 2006-04-03 Page 26 How can I avoid off by one errors Page 143 Are Trojan Horse attacks for real Page 158 Where should I look when my application can't handle its workload Page 256 How can I detect memory leaks Page 309 How do I target my application to international markets Page 394 How should I name my code's identifiers Page 441 How can I find and improve the code coverage of my tests Diomidis Spinellis first book *Code Reading* showed programmers how to understand and modify key functional properties of software *Code Quality* focuses on non functional properties demonstrating how to meet such critical requirements as reliability security portability and maintainability as well as efficiency in time and space Spinellis draws on hundreds of examples from open source projects such as the Apache web and application servers the BSD Unix systems and the HSQLDB Java database to illustrate concepts and techniques that every professional software developer will be able to appreciate and apply immediately Complete files for the open source code illustrated in this book are available online at <http://www.spinellis.gr/codequality>

**Tcl and the Tk Toolkit** John K. Ousterhout, Ken Jones, 2009-08-31 John K Ousterhout's Definitive Introduction to Tcl Tk Now Fully Updated for Tcl Tk 8.5 Tcl and the Tk Toolkit Second Edition is the fastest way for newcomers to master Tcl Tk and is the most authoritative resource for experienced programmers seeking to gain from Tcl Tk 8.5's powerful enhancements Written by Tcl Tk creator John K Ousterhout and top Tcl Tk trainer Ken Jones this updated volume provides the same extraordinary clarity and careful organization that made the first edition the world's number one Tcl Tk tutorial Part I introduces Tcl Tk through simple scripts that demonstrate its value and offer a flavor of the Tcl Tk scripting experience The authors then present detailed practical guidance on every feature necessary to build effective efficient production applications including variables expressions strings lists dictionaries control flow procedures namespaces file and directory management interprocess communication error and exception handling creating and using libraries and more Part II turns to the Tk extension and Tk 8.5's new themed widgets showing how to organize sophisticated user interface elements into modern GUI applications for Tcl Part III presents incomparable coverage of Tcl's C functions which are used to create new commands and packages and to integrate Tcl with existing C software thereby leveraging Tcl's simplicity while accessing C libraries or executing performance intensive tasks Throughout the authors illuminate all of Tcl Tk 8.5's newest most powerful improvements You'll learn how to use new Starkits and Starpacks to distribute run time environments and applications through a single file how to take full advantage of the new virtual file system support to treat entities such as zip archives and HTTP sites as mountable file systems and more From basic syntax to simple Tcl commands user interface development to C integration this fully updated classic covers it all Whether you're using Tcl Tk to automate system network administration streamline testing control hardware or even build desktop or Web applications this is the one

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