

# C Interfaces and Implementations

Techniques for Creating Reusable Software

David R. Hanson



ADDISON-WESLEY PROFESSIONAL COMPUTING SERIES

# C Interfaces And Implementations Techniques For Creating Reusable Software

**S Marginson**



## **C Interfaces And Implementations Techniques For Creating Reusable Software:**

**C Interfaces and Implementations** David University,1996 Every programmer and software project manager must master the art of creating reusable software modules they are the building blocks of large reliable applications Unlike some modern object oriented languages C provides little linguistic support or motivation for creating reusable application programming interfaces APIs While most C programmers use APIs and the libraries that implement them in almost every application they write relatively few programmers create and disseminate new widely applicable APIs C Interfaces and Implementations shows how to create reusable APIs using interface based design a language independent methodology that separates interfaces from their implementations This methodology is explained by example The author describes in detail 24 interfaces and their implementations providing the reader with a thorough understanding of this design approach Features of C Interfaces and Implementations Concise interface descriptions that comprise a reference manual for programmers interested in using the interfaces A guided tour of the code that implements each chapter s interface tp help those modifying or extending an interface or designing related interfaces In depth focus on algorithm engineering how to package data structures and related algorithms into reusable modules Source code for 24 APIs and 8 sample applications is examined with each presented as a literate program in which a thorough explanation is interleaved with the source code Rarely documented C programming tricks of the trade Convenient access to all source code in the book via the World Wide Web at <http://www.cs.princeton.edu/software/cii>

**C Interfaces and Implementations** David R. Hanson,1997 C Interfaces and Implementations describes how to use interface based design in the C programming language and it illustrates this approach by describing 24 interfaces and their implementations in detail The source code in the book is interleaved with its explanation in an order that best suits understanding the code

**Modern Compiler Implementation in C** Andrew W. Appel,2004-07-08 This new expanded textbook describes all phases of a modern compiler lexical analysis parsing abstract syntax semantic actions intermediate representations instruction selection via tree matching dataflow analysis graph coloring register allocation and runtime systems It includes good coverage of current techniques in code generation and register allocation as well as functional and object oriented languages that are missing from most books In addition more advanced chapters are now included so that it can be used as the basis for a two semester or graduate course The most accepted and successful techniques are described in a concise way rather than as an exhaustive catalog of every possible variant Detailed descriptions of the interfaces between modules of a compiler are illustrated with actual C header files The first part of the book Fundamentals of Compilation is suitable for a one semester first course in compiler design The second part Advanced Topics which includes the advanced chapters covers the compilation of object oriented and functional languages garbage collection loop optimizations SSA form loop scheduling and optimization for cache memory hierarchies

**Algorithms in C++, Parts 1-4** Robert Sedgewick,1998-07-13 Robert Sedgewick has thoroughly rewritten and substantially expanded and

updated his popular work to provide current and comprehensive coverage of important algorithms and data structures. Christopher Van Wyk and Sedgewick have developed new C implementations that both express the methods in a concise and direct manner and also provide programmers with the practical means to test them on real applications. Many new algorithms are presented and the explanations of each algorithm are much more detailed than in previous editions. A new text design and detailed innovative figures with accompanying commentary greatly enhance the presentation. The third edition retains the successful blend of theory and practice that has made Sedgewick's work an invaluable resource for more than 250 000 programmers. This particular book, Part 1n4, represents the essential first half of Sedgewick's complete work. It provides extensive coverage of fundamental data structures and algorithms for sorting, searching, and related applications. Although the substance of the book applies to programming in any language, the implementations by Van Wyk and Sedgewick also exploit the natural match between C classes and ADT implementations.

**Highlights:** Expanded coverage of arrays, linked lists, strings, trees, and other basic data structures. Greater emphasis on abstract data types (ADTs), modular programming, object-oriented programming, and C classes than in previous editions. Over 100 algorithms for sorting, selection, priority queue, ADT implementations, and symbol table ADT searching implementations. New implementations of binomial queues, multiway radix sorting, randomized BSTs, splay trees, skip lists, multiway tries, B trees, extendible hashing, and much more. Increased quantitative information about the algorithms, giving you a basis for comparing them. Over 1000 new exercises to help you learn the properties of algorithms. Whether you are learning the algorithms for the first time or wish to have up-to-date reference material that incorporates new programming styles with classic and new algorithms, you will find a wealth of useful information in this book.

**API Design for C++** Martin Reddy, 2024-05-23. API Design for C: Second Edition provides a comprehensive discussion of Application Programming Interface (API) development from initial design through implementation, testing, documentation, release, versioning, maintenance, and deprecation. It is the only book that teaches the strategies of C API development, including interface design, versioning, scripting, and plug-in extensibility. Drawing from the author's experience on large-scale collaborative software projects, the text offers practical techniques of API design that produce robust code for the long term. It presents patterns and practices that provide real value to individual developers as well as organizations. The Second Edition includes all new material, fully updated for the latest versions of C, including a new chapter on concurrency and multithreading, as well as a new chapter discussing how Objective-C and C code can co-exist and how a C API can be accessed from Swift programs. In addition, it explores often-overlooked issues, both technical and non-technical, contributing to successful design decisions that produce high-quality, robust, and long-lived APIs. It focuses on various API styles and patterns that will allow you to produce elegant and durable libraries. A discussion on testing strategies concentrates on automated API testing techniques rather than attempting to include end-user application testing techniques such as GUI testing, system testing, or manual testing. Teaches the strategies of C API development, including design.

versioning documentation testing scripting and extensibility Includes extensive code examples that illustrate each concept with fully functional examples and working source code for experimentation available online Covers various API styles and patterns with a focus on practical and efficient designs for large scale long term projects Includes updated URLs and ensures all code examples continue to work with modern compilers and supporting tools *Algorithms in Java, Parts 1-4* Robert Sedgwick, 2002-07-23 This edition of Robert Sedgwick's popular work provides current and comprehensive coverage of important algorithms for Java programmers Michael Schidlowsky and Sedgwick have developed new Java implementations that both express the methods in a concise and direct manner and provide programmers with the practical means to test them on real applications Many new algorithms are presented and the explanations of each algorithm are much more detailed than in previous editions A new text design and detailed innovative figures with accompanying commentary greatly enhance the presentation The third edition retains the successful blend of theory and practice that has made Sedgwick's work an invaluable resource for more than 400 000 programmers This particular book Parts 1 4 represents the essential first half of Sedgwick's complete work It provides extensive coverage of fundamental data structures and algorithms for sorting searching and related applications Although the substance of the book applies to programming in any language the implementations by Schidlowsky and Sedgwick also exploit the natural match between Java classes and abstract data type ADT implementations Highlights Java class implementations of more than 100 important practical algorithms Emphasis on ADTs modular programming and object oriented programming Extensive coverage of arrays linked lists trees and other fundamental data structures Thorough treatment of algorithms for sorting selection priority queue ADT implementations and symbol table ADT implementations search algorithms Complete implementations for binomial queues multiway radix sorting randomized BSTs splay trees skip lists multiway tries B trees extendible hashing and many other advanced methods Quantitative information about the algorithms that gives you a basis for comparing them More than 1 000 exercises and more than 250 detailed figures to help you learn properties of the algorithms Whether you are learning the algorithms for the first time or wish to have up to date reference material that incorporates new programming styles with classic and new algorithms you will find a wealth of useful information in this book *Embedded Software for SoC* Ahmed Amine Jerraya, Sungjoo Yoo, Norbert Wehn, Diederik Verkest, 2005-12-30 This title covers all software related aspects of SoC design from embedded and application domain specific operating systems to system architecture for future SoC It will give embedded software designers invaluable insights into the constraints imposed by the use of embedded software in an SoC context *A Book on C* Al Kelley, Ira Pohl, 1998 Written by bestselling author Al Kelley and Ira Pohl A Book on C 4th Ed is a comprehensive tutorial and reference to C based on the ANSI standard This book assumes prior programming experience The authors demonstrate the C language with numerous examples and extensive exercises that guide readers through each concept *C/C++ Users Journal*, 1998 [Advanced CORBA Programming with C++](#) Michi Henning, Steve Vinoski, 1999

Advanced CORBA Programming with C provides designers and developers with the tools required to understand CORBA technology at the architectural design and source code levels This book offers hands on explanations for building efficient applications as well as lucid examples that provide practical advice on avoiding costly mistakes With this book as a guide programmers will find the support they need to successfully undertake industrial strength CORBA development projects

**Algorithms in C++** Robert Sedgewick,1998 Algorithms in C contains exercises to help students learn the properties of algorithms with a greater emphasis on abstract data types modular programming object oriented programming and C classes

The C++ Report ,1998 An Engineering Approach to Computer Networking Srinivasan Keshav,Srinivsan Keshav,1997 Taking a unique engineering approach that will help readers gain a grasp of not just how but also why networks work the way they do this book includes the very latest network technology including the first practical treatment of Asynchronous Transfer Mode ATM The CD ROM contains an invaluable network simulator **Effective C++** Scott Douglas Meyers,1998 Effective C has been updated to reflect the latest ANSI ISO standards The author a recognised authority on C shows readers fifty ways to improve their programs and designs *UNIX Systems for Modern Architectures* Curt Schimmel,1994 Any UNIX programmer using the latest workstations or super minicomputers from vendors such as Sun Silicon Graphics SGI ATandT Amdahl IBM Apple Compaq Mentor Graphics and Thinking Machines needs this book to optimize his her job performance This book teaches how these architectures operate using clear comprehensible examples to explain the concepts and provides a good reference for people already familiar with the basic concepts 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 **C for Java Programmers** Tomasz Müldner,2000 The C programming language has been around for over 25 years Lately however more and more programmers are learning Java as their first language While Java offers many advantages C is more efficient and appropriate when working with certain run time applications compilers graphics and operating systems With C for Java Programmers Tomasz M ldner adopts an innovative approach modern ANSI C techniques to readers already familiar the Java concepts He takes advantage of the techniques and underlying design principles present in object oriented languages like Java and incorporates them to create a set of programming standards applicable to C These standards are present throughout each chapter both in short examples and in longer modules C for Java Programmers centers around such vital concepts as the ability to extend and modify modules represent enumerations create concrete and generic modules and use shallow and deep copying of data elements In addition this book provides a thorough discussion of issues such as memory management pointer use and exception handling

topics traditionally more troublesome for novice C programmers which become increasingly important in the less protected world of C 0201702797B04062001 **Effective Tcl/Tk Programming** Mark Harrison, Michael McLennan, 1998 You need a graphical user interface and it needs to run on multiple platforms You don't have much time and you're not a wizard with X Motif the Win32 GUI or the Mac GUI The project seems impossible but with Tcl Tk it's simple and fun The Tcl scripting language and the Tk toolkit create a powerful programming environment for building graphical user interfaces With two lines of code you can create a simple button with two hundred lines of code a desktop calculator and with a thousand lines of code an industrial strength groupware calendar and appointment minder Your applications run on all of the major platforms UNIX Windows 95 NT and Macintosh You can even embed your programs in a Web page to make them available online Mark Harrison and Michael McLennan two noted Tcl Tk experts combine their extensive experience in this practical programming guide It is ideal for developers who are acquainted with the basics of Tcl Tk and are now moving on to build real applications Effective Tcl Tk Programming shows you how to build Tcl Tk applications effectively and efficiently through plenty of real world advice It clarifies some of the more powerful aspects of Tcl Tk such as the packer the canvas widget and binding tags The authors describe valuable design strategies and coding techniques that will make your Tcl Tk projects successful You will learn how to Create interactive displays with the canvas widget Create customized editors with the text widget Create new geometry managers like tabbed notebooks or paned windows Implement client server architectures Handle data structures Interface with existing applications Package Tcl Tk code into reusable libraries Deliver Tcl Tk applications that are easy to configure and install Embed applications in a Web page Build applications that will run on multiple platforms Throughout the book the authors develop numerous applications and a library of reusable components Learn from their approach follow their strategies and steal their code for your own applications But don't bother retyping all of the examples

0201634740B04062001 **Proceedings of the ... ACM SIGPLAN Symposium on Principles & Practice of Parallel Programming**, 2006 American Book Publishing Record, 1997

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