



C++ Concurrency IN ACTION

SECOND EDITION

Anthony Williams

Manning C Concurrency In Action Second Edition

Rainer Grimm



Manning C Concurrency In Action Second Edition:

C++ Concurrency in Action Anthony Williams, 2019-02-07 This book should be on every C programmer's desk. It's clear, concise, and valuable. Rob Green, Bowling Green State University. This bestseller has been updated and revised to cover all the latest changes to C 14 and 17. C Concurrency in Action Second Edition teaches you everything you need to write robust and elegant multithreaded applications in C 17. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology: You choose C when your applications need to run fast. Well-designed concurrency makes them go even faster. C 17 delivers strong support for the multithreaded multiprocessor programming required for fast graphic processing, machine learning, and other performance-sensitive tasks. This exceptional book unpacks the features, patterns, and best practices of production-grade C concurrency. About the Book: C Concurrency in Action Second Edition is the definitive guide to writing elegant multithreaded applications in C. Updated for C 17, it carefully addresses every aspect of concurrent development, from starting new threads to designing fully functional multithreaded algorithms and data structures. Concurrency master Anthony Williams presents examples and practical tasks in every chapter, including insights that will delight even the most experienced developer. What's Inside: Full coverage of new C 17 features. Starting and managing threads. Synchronizing concurrent operations. Designing concurrent code. Debugging multithreaded applications. About the Reader: Written for intermediate C and C++ developers. No prior experience with concurrency required. About the Author: Anthony Williams has been an active member of the BSI C Panel since 2001 and is the developer of the just:thread Pro extensions to the C 11 thread library. Table of Contents: Hello world of concurrency in C. Managing threads. Sharing data between threads. Synchronizing concurrent operations. The C memory model and operations on atomic types. Designing lock-based concurrent data structures. Designing lock-free concurrent data structures. Designing concurrent code. Advanced thread management. Parallel algorithms. Testing and debugging multithreaded applications. **Parallel and High**

Performance Computing Robert Robey, Yuliana Zamora, 2021-08-24 Parallel and High Performance Computing offers techniques guaranteed to boost your code's effectiveness. Summary: Complex calculations like training deep learning models or running large-scale simulations can take an extremely long time. Efficient parallel programming can save hours or even days of computing time. Parallel and High Performance Computing shows you how to deliver faster run times, greater scalability, and increased energy efficiency to your programs by mastering parallel techniques for multicore processor and GPU hardware. About the Technology: Write fast, powerful, energy-efficient programs that scale to tackle huge volumes of data. Using parallel programming, your code spreads data processing tasks across multiple CPUs for radically better performance. With a little help, you can create software that maximizes both speed and efficiency. About the book: Parallel and High Performance Computing offers techniques guaranteed to boost your code's effectiveness. You'll learn to evaluate hardware architectures and work with industry standard tools such as OpenMP and MPI. You'll master the data structures and

algorithms best suited for high performance computing and learn techniques that save energy on handheld devices You ll even run a massive tsunami simulation across a bank of GPUs What s inside Planning a new parallel project Understanding differences in CPU and GPU architecture Addressing underperforming kernels and loops Managing applications with batch scheduling About the reader For experienced programmers proficient with a high performance computing language like C C or Fortran About the author Robert Robey works at Los Alamos National Laboratory and has been active in the field of parallel computing for over 30 years Yuliana Zamora is currently a PhD student and Siebel Scholar at the University of Chicago and has lectured on programming modern hardware at numerous national conferences Table of Contents PART 1 INTRODUCTION TO PARALLEL COMPUTING 1 Why parallel computing 2 Planning for parallelization 3 Performance limits and profiling 4 Data design and performance models 5 Parallel algorithms and patterns PART 2 CPU THE PARALLEL WORKHORSE 6 Vectorization FLOPs for free 7 OpenMP that performs 8 MPI The parallel backbone PART 3 GPUS BUILT TO ACCELERATE 9 GPU architectures and concepts 10 GPU programming model 11 Directive based GPU programming 12 GPU languages Getting down to basics 13 GPU profiling and tools PART 4 HIGH PERFORMANCE COMPUTING ECOSYSTEMS 14 Affinity Truce with the kernel 15 Batch schedulers Bringing order to chaos 16 File operations for a parallel world 17 Tools and resources for better code

Modern Fortran Milan Curcic, 2020-11-24 Modern Fortran teaches you to develop fast efficient parallel applications using twenty first century Fortran In this guide you ll dive into Fortran by creating fun apps including a tsunami simulator and a stock price analyzer Filled with real world use cases insightful illustrations and hands on exercises Modern Fortran helps you see this classic language in a whole new light Summary Using Fortran early and accurate forecasts for hurricanes and other major storms have saved thousands of lives Better designs for ships planes and automobiles have made travel safer more efficient and less expensive than ever before Using Fortran low level machine learning and deep learning libraries provide incredibly easy fast and insightful analysis of massive data Fortran is an amazingly powerful and flexible programming language that forms the foundation of high performance computing for research science and industry And it s come a long long way since starting life on IBM mainframes in 1956 Modern Fortran is natively parallel so it s uniquely suited for efficiently handling problems like complex simulations long range predictions and ultra precise designs If you re working on tasks where speed accuracy and efficiency matter it s time to discover or re discover Fortran About the technology For over 60 years Fortran has been powering mission critical scientific applications and it isn t slowing down yet Rock solid reliability and new support for parallel programming make Fortran an essential language for next generation high performance computing Simply put the future is in parallel and Fortran is already there Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the book Modern Fortran teaches you to develop fast efficient parallel applications using twenty first century Fortran In this guide you ll dive into Fortran by creating fun apps including a tsunami simulator and a stock price analyzer Filled with real world use

cases insightful illustrations and hands on exercises Modern Fortran helps you see this classic language in a whole new light What's inside Fortran's place in the modern world Working with variables arrays and functions Module development Parallelism with coarrays teams and events Interoperating Fortran with C About the reader For developers and computational scientists No experience with Fortran required About the author Milan Curcic is a meteorologist oceanographer and author of several general purpose Fortran libraries and applications Table of Contents PART 1 GETTING STARTED WITH MODERN FORTRAN 1 Introducing Fortran 2 Getting started Minimal working app PART 2 CORE ELEMENTS OF FORTRAN 3 Writing reusable code with functions and subroutines 4 Organizing your Fortran code using modules 5 Analyzing time series data with arrays 6 Reading writing and formatting your data PART 3 ADVANCED FORTRAN USE 7 Going parallel with Fortran coarrays 8 Working with abstract data using derived types 9 Generic procedures and operators for any data type 10 User defined operators for derived types PART 4 THE FINAL STRETCH 11 Interoperability with C Exposing your app to the web 12 Advanced parallelism with teams events and collectives

Object-Oriented Software Design in C++ Ronald Mak, 2024-07-16 Learn the fundamentals of Object Oriented design by investigating good and bad code Well designed applications run more efficiently have fewer bugs and are easier to revise and maintain Using an engaging before and after approach Object Oriented Software Design in C shows you exactly what bad software looks like and how to fix it with good design principles and patterns In Object Oriented Software Design in C you'll find Design code test iterations that improve code with each revision Gathering requirements to make sure you're developing the right application Design principles like encapsulation and delegation that solve programming problems Design patterns including Observer Design Pattern that fix architecture issues Using recursion and multithreading to simplify common solutions Object Oriented Software Design in C is a vital guide to building the kind of high performance applications delivered by the pros all using industry proven design principles and patterns You'll learn how to gather and analyze requirements so you're building exactly what your client is looking for backtrack mistakes with iterative development and build a toolbox of design patterns that troubleshoot common issues with application architecture The book's accessible examples are written in C 17 but its universal principles can be applied to any object oriented language Purchase of the print book includes a free eBook in PDF and ePub formats from Manning Publications About the technology Good design is the foundation of great software Mastering the principles of object oriented design is the surest way to create applications that run fast have few bugs and last well into the future Written especially for new C programmers this easy to read book gently mentors you in the art of designing great software About the book Object Oriented Software Design in C introduces object oriented design principles practices and patterns in clear jargon free language The instantly familiar before and after examples highlight the benefits of good design Each chapter is full of friendly conversations that anticipate your questions and help point out the subtleties you might overlook Along the way you'll pick up tips about idiomatic C style that will set your code apart What's inside Design

code test iterations Design principles for common programming problems Architecture design patterns in plain English Recursion and multithreading About the reader Examples are in C 17 About the author Ronald Mak is a former NASA senior scientist Currently he teaches computer science at San Jose State University The technical editor on this book was Juan Rufes Table of Contents PART 1 1 The path to well designed software 2 Iterate to achieve good design PART 2 3 Get requirements to build the right application 4 Good class design to build the application right PART 3 5 Hide class implementations 6 Don t surprise your users 7 Design subclasses right PART 4 8 The Template Method and Strategy Design Patterns 9 The Factory Method and Abstract Factory Design Patterns 10 The Adapter and Fa ade Design Patterns 11 The Iterator and Visitor Design Patterns 12 The Observer Design Pattern 13 The State Design Pattern 14 The Singleton Composite and Decorator Design Patterns PART 5 15 Designing solutions with recursion and backtracking 16 Designing multithreaded programs

Learn C++ by Example Frances Buontempo, 2024-04-02 Learn the latest features of modern C by coding eight engaging projects Don t let the multitude of C updates intimidate you Learn C by Example takes you through the major language changes since C 11 with each new feature demonstrated with a fun project or minigame It s perfect for beginners who know C basics coders coming back to the language or current C developers missing out on everything the language has to offer Inside Learn C by Example you ll find important skills such as Utilizing the new C features from C 11 to 23 Effectively testing your C code What happens under the hood of C code Picking efficient algorithms and data structures std format STL algorithms ranges and coroutines Learn C by Example rapidly gets up to speed with C s updates and changes and ensures you ll stay ahead as the language continues to change and grow You ll learn about vectors and ranges by generating Pascal s triangle create a racing game with new special member functions build a slot machine with parameter packs and more Foreword by Matt Godbolt About the technology C delivers the flexibility and performance you need for everything from low level systems programming to secure financial applications and AAA game development First introduced in 1985 the language is still evolving with exciting changes in every new version Whether you re just getting started or you re a veteran coder adding to your toolbox the eight hands on projects in this book will get you up to speed on modern C features and practices About the book Learn C by Example is a fun and practical way to start writing modern C code It guides you through entertaining challenges emphasizing features and techniques made possible by C 17 20 and 23 You ll learn about objects and arrays by creating a deck of playing cards master the C random library for a number guess game use the chrono library to create a countdown timer and much more Along the way you ll also pick up valuable tips for testing project organization and other productivity skills What s inside New C features from C 11 to 23 Effectively test your C code What happens under the hood Efficient algorithms and data structures About the reader Requires beginner to intermediate C skills About the author Frances Buontempo is an experienced C developer and the editor of ACCU s Overload magazine The technical editor on this book was Timothy Jaap van Deurzen Table of Contents 1 Hello again C 2 Containers iterators and

ranges 3 Input of strings and numbers 4 Time points duration and literals 5 Creating and using objects and arrays 6 Smart pointers and polymorphism 7 Associative containers and files 8 Unordered maps and coroutines 9 Parameter packs and std visit

C++ Core Guidelines Explained Rainer Grimm, 2022-03-25 Write More Elegant C Programs The official C Core Guidelines provide consistent best practices for writing outstanding modern C code and improving legacy code but they re organized as a reference for looking up one specific point at a time not as a tutorial for working developers In C Core Guidelines Explained expert C instructor Rainer Grimm has distilled them to their essence removing esoterica sharing new insights and context and presenting well tested examples from his own training courses Grimm helps experienced C programmers use the Core Guidelines with any recent version of the language from C 11 onward Most of his code examples are written for C 17 with added coverage of newer versions and C 20 wherever appropriate and references to the official C Core Guidelines online Whether you re creating new software or improving legacy code Grimm will help you get more value from the Core Guidelines most useful rules as you write code that s safer clearer more efficient and easier to maintain Apply the guidelines and underlying programming philosophy Correctly use interfaces functions classes enum resources expressions and statements Optimize performance implement concurrency and parallelism and handle errors Work effectively with constants immutability templates generics and metaprogramming Improve your C style manage source files and use the Standard Library We are very pleased to see Rainer Grimm applying his teaching skills and industrial background to tackling the hard and necessary task of making the C Core Guidelines accessible to more people Bjarne Stroustrup and Herb Sutter co editors C Core Guidelines Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

C++20 for Programmers Paul Deitel, Harvey Deitel, 2022-03-31 The professional programmer s Deitel guide to C 20 Written for programmers with a background in another high level language in this book you ll learn Modern C development hands on using C 20 and its Big Four features Ranges Concepts Modules and Coroutines For more details see the Preface and the table of contents diagram inside the front cover In the context of 200 hands on real world code examples you ll quickly master Modern C coding idioms using popular compilers Visual C GNU g Apple Xcode and LLVM Clang After the C fundamentals quick start you ll move on to C standard library containers array and vector functional style programming with C 20 Ranges and Views strings files and regular expressions object oriented programming with classes inheritance runtime polymorphism and static polymorphism operator overloading copy move semantics RAI and smart pointers exceptions and a look forward to C 23 Contracts standard library containers iterators and algorithms templates C 20 Concepts and metaprogramming C 20 Modules and large scale development and concurrency parallelism the C 17 and C 20 parallel standard library algorithms and C 20 Coroutines Features Rich coverage of C 20 s Big Four Ranges Concepts Modules and Coroutines Objects Natural Approach Use standard libraries and open source libraries to build significant applications with minimal code Hundreds of real world live code

examples Modern C C 20 17 14 11 and a look to C 23 Compilers Visual C GNU g Apple Xcode Clang LLVM Clang Docker GNU GCC LLVM Clang Fundamentals Control statements functions strings references pointers files exceptions Object oriented programming Classes objects inheritance runtime and static polymorphism operator overloading copy move semantics RAII smart pointers Functional style programming C 20 Ranges and Views lambda expressions Generic programming Templates C 20 Concepts and metaprogramming C 20 Modules Large Scale Development Concurrent programming Concurrency multithreading parallel algorithms C 20 Coroutines coroutines support libraries C 23 executors Future A look forward to Contracts range based parallel algorithms standard library coroutine support and more C 20 for Programmers builds up an intuition for modern C that every programmer should have in the current software engineering ecosystem The unique and brilliant ordering in which the Deitels present the material jibes much more naturally with the demands of modern production grade programming environments I strongly recommend this book for anyone who needs to get up to speed on C particularly in professional programming environments where the idioms and patterns of modern C can be indecipherable without the carefully crafted guidance that this book provides Dr Daisy Hollman ISO C Standards Committee Member This is a fine book that covers a surprising amount of the very large language that is C 20 An in depth treatment of C for a reader familiar with how things work in other programming languages Arthur O Dwyer C trainer Chair of CppCon s Back to Basics track author of several accepted C 17 20 23 proposals and the book Mastering the C 17 STL Forget about callback functions bare pointers and proprietary multithreading libraries C 20 is about standard concurrency features generic lambda expressions metaprogramming tighter type safety and the long awaited concepts which are all demonstrated in this book Functional programming is explained clearly with plenty of illustrative code listings The excellent chapter Parallel Algorithms and Concurrency A High Level View is a highlight of this book Danny Kalev Ph D and Certified System Analyst and Software Engineer Former ISO C Standards Committee Member Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Note eBooks are 4 color and print books are black and white

Asynchronous Programming with C++ Javier Reguera-Salgado, Juan Antonio Rufes, 2024-11-29 Design and develop high performance software solutions by using concurrent and asynchronous techniques provided by the most modern features in C 20 and C 23 Key Features Learn how to use modern C features including futures promises async and coroutines to build asynchronous solutions Develop cross platform network and low level I O projects with Boost Asio Master optimization techniques by understanding how software adapts to machine hardware Purchase of the print or Kindle book includes a free PDF eBook Book Description As hardware advancements continue to accelerate bringing greater memory capacity and more CPU cores software must evolve to adapt to efficiently use all available resources and reduce idle CPU cycles In this book two seasoned software engineers with about five decades of combined experience will teach you how to implement concurrent and asynchronous solutions in C You ll gain a comprehensive understanding of

parallel programming paradigms covering concurrent asynchronous parallel multithreading reactive and event driven programming as well as dataflows and see how threads processes and services are related Moving into the heart of concurrency the authors will guide you in creating and managing threads and exploring C's thread safety mechanisms including mutual exclusion atomic operations semaphores condition variables latches and barriers With this solid foundation you'll focus on pure asynchronous programming discovering futures promises the async function and coroutines The book takes you step by step through using Boost Asio and Boost Cobalt to develop network and low level I/O solutions proven performance and optimization techniques and testing and debugging asynchronous software By the end of this C book you'll be able to implement high performance software using modern asynchronous C techniques What you will learn Explore the different parallel paradigms and know when to apply them Acquire deep knowledge of thread management and safety mechanisms Understand asynchronous programming in C including coroutines Leverage network asynchronous programming by using Boost Asio and Boost Cobalt Add proven performance and optimization techniques to your toolbox Find out how to test and debug asynchronous software Who this book is for This book is for developers who have some experience using C regardless of their professional field If you want to improve your C skills and learn how to develop high performance software using the latest modern C features this book is for you

Troubleshooting Java, Second Edition
Laurentiu Spilca, 2025-11-18 Learn how to quickly work out what your Java code is doing so you can understand when and why it misbehaves Searching for bugs detangling messy legacy code or evaluating your codebase for new features sucks up much of a developer's time Effectively reading and understanding existing code is a true superpower Troubleshooting Java Second Edition teaches you to efficiently analyze and debug Java applications using time tested tools and new AI powered techniques In Troubleshooting Java Second Edition you'll learn Efficiently use debuggers to quickly understand complex code Utilize AI driven tools to automate log analysis trace execution and predict problems Correctly implement and interpret application logs Identify performance bottlenecks and optimize slow execution paths Profile SQL queries to diagnose and optimize database interactions Evaluate heap dumps to detect and fix memory leaks Analyze thread dumps to resolve deadlocks and concurrency issues Navigate the intricacies of service oriented and microservices systems In Troubleshooting Java Second Edition Java veteran Laurentiu Spilca shares techniques for reading profiling debugging and optimizing Java code that he's honed over years working with high stakes systems This fully revised second edition updates coverage for new Java tools and adds methods for saving time and effort using AI You'll master techniques to identify memory leaks optimize database queries and resolve threading issues with ease The code samples are in Java but the skills you learn in this guide can be applied to any JVM language About the technology Whether you're working with legacy systems or using AI to generate fresh programs you'll spend more time reading and fixing code than writing it from scratch Troubleshooting is a messy art and efficient profiling logging debugging and optimization will save you hours of time and countless headaches

About the book **Troubleshooting Java Second Edition** teaches practical techniques to diagnose debug and optimize Java applications You ll learn to uncover hidden dependencies diagnose crashes and resolve performance issues using tools like IntelliJ IDEA Debugger VisualVM and Heap Dump Analyzer This revised and updated second edition introduces AI powered troubleshooting tools along with techniques for modern Java and cloud native apps What s inside Use debuggers to quickly understand complex code Automate code analysis with AI tools Implement and interpret application logs Identify performance bottlenecks About the reader For intermediate Java developers About the author Laurentiu Spilca is a skilled Java and Spring developer and an experienced technology instructor He is the author of **Spring Start Here** and **Spring Security in Action**

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Programming Bjarne Stroustrup,2024-04-10 An Introduction to Programming by the Inventor of C Programming Principles and Practice Using C Third Edition will help anyone who is willing to work hard learn the fundamental principles of programming and develop the practical skills needed for programming in the real world Previous editions have been used successfully by many thousands of students This revised and updated edition Assumes that your aim is to eventually write programs that are good enough for others to use and maintain Focuses on fundamental concepts and techniques rather than on obscure language technical details Is an introduction to programming in general including procedural object oriented and generic programming rather than just an introduction to a programming language Covers both contemporary high level techniques and the lower level techniques needed for efficient use of hardware Will give you a solid foundation for writing useful correct type safe maintainable and efficient code Is primarily designed for people who have never programmed before but even seasoned programmers have found previous editions useful as an introduction to more effective concepts and techniques Covers a wide range of essential concepts design and programming techniques language features and libraries Uses contemporary C C 20 and C 23 Covers the design and use of both built in types and user defi ned types complete with input output computation and simple graphics GUI Offers an introduction to the C standard library containers and algorithms Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

Practical C++ STL

Programming Daniel Kusswurm,2024-11-01 Learn how to use the classes algorithms and other programming constructs of

C STL This comprehensive and practical guide covers a broad range of STL programming topics and highlights numerous programming constructs from the C 20 and C 23 standards Mastering use of STL can be daunting for both new and experienced C programmers It doesn t help that the ISO C specification documents are meticulous and verbose This book is organized to help you quickly understand C STL programming focusing on the real world aspects of its usage Rather than spend time providing extensive explanations of the inner workings of STL author Daniel Kusswurm judiciously explores these intricacies only when they advance the reader s understanding of a particular topic This book is accompanied by over 100 source code examples designed to accelerate learning by emphasizing practical use cases It coincides with the C 20 and C 23 standards and works with any OS platform that supports these standards including Windows Visual C Linux GNU C and macOS clang After reading Practical C STL Programming you ll be able to exploit the computational capabilities of STL to implement a wide variety of software algorithms and solve unique programming challenges What You Will Learn Explore STL capabilities including how to generate formatted output utilize sequence containers apply utility classes exploit smart pointers manipulate associative containers and exercise container adaptors Apply algorithms and iterators to perform a wide variety of container operations including sorts searches insertions removals and erasures Utilize ranges and range iterators adaptors views compositions projections and factories Perform file and directory operations using STL s file system classes Execute chronological calculations and formatting using the time classes Employ STL s random number generation and distribution classes Implement numerical processing algorithms using STL s std valarray and std complex classes Accelerate program performance using STL s concurrency classes and algorithm execution policies Who This Book Is For Software developers and programmers who understand the basic syntax and semantics of C and want need to learn how to use STL s classes and algorithms or programmers who have experience using STL as specified by the C 11 14 17 standards and are interested in learning how to use the new STL classes and algorithms of C 20 23 Computer science engineering students or hobbyists who want to learn about or better understand the capabilities of STL

С--. Практика многопоточного программирования Энтони Уильямс, 2023-11-13 17 C 17 17 C C 2001 BSI C just thread Pro 11 C C C 4Pro Web C C IVI Technologies C++ Concurrency in Action, Second Edition, Video Edition Anthony Williams, 2019 This book should be on every C programmer s desk It s clear concise and valuable Rob Green Bowling Green State University This bestseller has been updated and revised to cover all the latest changes to C 14 and 17 C Concurrency in Action Second Edition teaches you everything you need to write robust and elegant multithreaded applications in C 17 You choose C when your applications need to run fast Well designed concurrency makes them go even faster C 17 delivers strong support for the multithreaded multiprocessor programming required for fast graphic processing machine learning and other performance sensitive tasks This exceptional book course unpacks the features patterns and best practices of production grade C concurrency C Concurrency in Action Second Edition is the definitive guide to writing elegant multithreaded applications in C Updated for C

17 it carefully addresses every aspect of concurrent development from starting new threads to designing fully functional multithreaded algorithms and data structures Concurrency master Anthony Williams presents examples and practical tasks in every chapter including insights that will delight even the most experienced developer Inside Full coverage of new C 17 features Starting and managing threads Synchronizing concurrent operations Designing concurrent code Debugging multithreaded applications This book course is written for intermediate C and C developers No prior experience with concurrency required Anthony Williams has been an active member of the BSI C Panel since 2001 and is the developer of the just thread Pro extensions to the C 11 thread library A thorough presentation of C concurrency capabilities Maurizio Tomasi University of Milan Highly recommended for programmers who want to further their knowledge of the latest C standard Fr d ric Flayol 4Pro Web C The guide contains snippets for everyday use in your own projects and to help take your concurrency C skills from the Padawan to the Jedi level Jura Shikin IVI Technologies NARRATED BY LISA FARINA AND DIANA GARDINER

Python in Practice Mark Summerfield, 2013-08-20 Winner of the 2014 Jolt Award for Best Book Whether you are an experienced programmer or are starting your career Python in Practice is full of valuable advice and example to help you improve your craft by thinking about problems from different perspectives introducing tools and detailing techniques to create more effective solutions Doug Hellmann Senior Developer DreamHost If you re an experienced Python programmer Python in Practice will help you improve the quality reliability speed maintainability and usability of all your Python programs Mark Summerfield focuses on four key themes design patterns for coding elegance faster processing through concurrency and compiled Python Cython high level networking and graphics He identifies well proven design patterns that are useful in Python illuminates them with expert quality code and explains why some object oriented design patterns are irrelevant to Python He also explodes several counterproductive myths about Python programming showing for example how Python can take full advantage of multicore hardware All examples including three complete case studies have been tested with Python 3 3 and where possible Python 3 2 and 3 1 and crafted to maintain compatibility with future Python 3 x versions All code has been tested on Linux and most code has also been tested on OS X and Windows All code may be downloaded at www.qtrac.eu/pipbook.html Coverage includes Leveraging Python s most effective creational structural and behavioral design patterns Supporting concurrency with Python s multiprocessing threading and concurrent futures modules Avoiding concurrency problems using thread safe queues and futures rather than fragile locks Simplifying networking with high level modules including xmlrpclib and RPyC Accelerating Python code with Cython C based Python modules profiling and other techniques Creating modern looking GUI applications with Tkinter Leveraging today s powerful graphics hardware via the OpenGL API using pyglet and PyOpenGL *Science Gateways for Distributed Computing Infrastructures* Péter Kacsuk, 2014-10-28 The book describes the science gateway building technology developed in the SCI BUS European project and its adoption and customization method by which user communities such as biologists chemists and astrophysicists can build customized

domain specific science gateways Many aspects of the core technology are explained in detail including its workflow capability job submission mechanism to various grids and clouds and its data transfer mechanisms among several distributed infrastructures The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways

Learning Modern C++ for Finance Daniel Hanson,2024-11-04 This practical book demonstrates why C is still one of the dominant production quality languages for financial applications and systems Many programmers believe that C is too difficult to learn Author Daniel Hanson demonstrates that this is no longer the case thanks to modern features added to the C Standard beginning in 2011 Financial programmers will discover how to leverage C abstractions that enable safe implementation of financial models You ll also explore how popular open source libraries provide additional weapons for attacking mathematical problems C programmers unfamiliar with financial applications also benefit from this handy guide Learn C basics from a modern perspective syntax inheritance polymorphism composition STL containers and algorithms Dive into newer features and abstractions including functional programming using lambdas task based concurrency and smart pointers Implement basic numerical routines in modern C Understand best practices for writing clean and efficient code

Reports of Cases Argued and Determined in the Supreme Court of the State of Michigan Michigan. Supreme Court,Randolph Manning,George C. Gibbs,Thomas McIntyre Cooley,Elijah Wood Meddaugh,William Jennison,Hovey K. Clarke,Hoyt Post,Henry Allen Chaney,William Dudley Fuller,John Adams Brooks,Marquis Eaton,Herschel Bouton Lazell,James Reasoner,Richard W. Cooper,1883

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 [A Reply to Cardinal Manning's Recently Acknowledged Essay Entitled "Dr. Nicholson's Accusation of the Archbishop of Westminster" \[originally Published Under the Pseudonym Catholicus and Referring to the Correspondence on the Archbishop's Sermon The Devotion of the Sacred Heart.\]](#)
John Aldwell Nicholson,1878 **The English Reports** ,1913

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