

Manning C Concurrency In Action Second Edition

C++ Concurrency in Action C++ Concurrency in Action Concurrency in C++ Concurrency in C++ Concurrency and Multithreading in C: POSIX Threads and Synchronization Concurrency in C++. Concurrency with Modern C++ Mastering Concurrency and Multithreading in C++: Unlock the Secrets of Expert-Level Skills Effective Concurrency in C++ Mastering the Craft of C Programming: Unraveling the Secrets of Expert-Level Programming Mastering C: Advanced Techniques and Best Practices C++ Concurrency in Action, Second Edition, Video Edition Concurrency in Programming and Database Systems A New English Dictionary on Historical Principles Concurrent Hardware Resources in Parallel and Concurrent Systems C/C++ Users Journal Concurrency in Trellis Searching and Traversing Algorithms A treatise on spherical trigonometry, by W.J. M'Clelland and T. Preston Euclid revised, containing the essentials of the elements of plane geometry as given by Euclid in his first six books, ed. by R.C.J. Nixon Anthony Williams Anthony Williams Robert Johnson Booker Blunt Larry Jones P. A. Buhr Rainer Grimm Larry Jones Herb Sutter Steve Jones Adam Jones Anthony Williams Arthur J. Bernstein Michael Kishinevsky Horngdar Lin William John M'Clelland Euclides

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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

with the new c standard and technical report 2 tr2 multi threading is coming to c in a big way tr2 will provide higher level synchronization facilities that allow for a much greater level of abstraction and make programming multi threaded applications simpler and safer concurrent programming is required if programmers are to take advantage of the multi core microprocessors increasingly available from intel and others the new standard for c has extensions to the language that make concurrent programming more accessible to regular developers as a guide and reference to the new concurrency features in the upcoming c standard and tr2 this book is invaluable for existing programmers familiar with writing multi threaded code in c using platform specific apis or in other languages as well as c programmers who have never written multithreaded code before

concurrency in c writing high performance multithreaded code is a comprehensive guide designed to equip programmers with the essential skills needed to develop efficient and robust concurrent applications in c the book methodically breaks down the complexities of multithreading providing a foundation in fundamental concepts such as thread management synchronization techniques and memory models through detailed explanations and practical examples readers gain a clear understanding of how to effectively manage multiple threads and ensure data integrity across shared resources as the book delves into advanced topics it presents design patterns specifically tailored for concurrency along with strategies for optimizing performance in multithreaded applications it emphasizes real world examples illustrating the practical impact of concurrency across various domains and offers insights into debugging and testing techniques crucial for maintaining reliable software with an eye on the future the book also explores new features introduced in c 20 and future trends in concurrent computing preparing readers to tackle the challenges of modern and emerging computing environments written for both novice and experienced developers this book provides a comprehensive yet accessible approach to mastering concurrency in c whether you re optimizing existing code or creating new multithreaded solutions concurrency in c serves as an indispensable resource on the journey to writing high

performance scalable applications

unlock the power of concurrency build fast scalable applications with c concurrency is a critical skill for modern c developers especially when building high performance parallel applications concurrency in c is your complete guide to mastering threads futures and parallel programming using the full power of the c 11 c 14 c 17 and c 20 standards whether you re new to concurrency or have some experience this book teaches you how to write safe efficient and scalable multithreaded code that takes advantage of modern c features you ll learn how to optimize performance and minimize race conditions while building applications that handle concurrent tasks and parallel workloads with ease

unlock the power of advanced computing with concurrency and multithreading in c posix threads and synchronization this expertly crafted guide dives deep into the core concepts of concurrency essential for harnessing the full potential of modern multi core processors tailored for experienced programmers who seek to elevate their skills the book offers a comprehensive exploration of posix threads and synchronization techniques within the c programming language ensuring readers gain unmatched proficiency in developing efficient scalable applications throughout the chapters you will unravel the intricacies of thread creation lifecycle management and synchronization primitives like mutexes semaphores and condition variables the book meticulously addresses the complexities of thread safety reentrancy and advanced synchronization techniques equipping you with the knowledge needed to tackle challenging concurrency issues head on real world case studies and patterns provide practical insights bridging theoretical concepts with concrete applications ultimately empowering you to implement cutting edge concurrency strategies effectively concurrency and multithreading in c posix threads and synchronization is not merely a textbook but a valuable asset for professionals looking to excel in software engineering it offers a balanced blend of theory and practice complete with debugging techniques and performance tuning strategies that ensure your projects run smoothly and efficiently whether you re developing responsive user interfaces high performance computational applications or robust server architectures this authoritative guide will become your go to companion in mastering concurrent programming with confidence and precision

delve deep into learning concurrent programming with c key features explore concurrency and its applications with more than 100 running code samples gain insight into how to overcome common pitfalls that programmers face in daily work life discover the easiest way to become an expert in the multithreading environment book description c 11 is the first c standard that deals with concurrency the story goes on with c 17 and will continue with c 20 23 concurrency with modern c is a practical guide that gets you to grips with concurrent programming in modern c starting with the c memory model and using many ready to run code examples the book covers everything you need to improve your c multithreading skills you ll gain insight into different design patterns you ll also uncover the general consideration you have to keep in mind while designing a concurrent data structure the final chapter in the book talks extensively about the common pitfalls of concurrent programming and ways to overcome these hurdles by the end of the book you ll have the skills to build your own concurrent programs and enhance your knowledge base what you will learn delve into the anatomy and workflow of concurrency

using c study the general considerations while designing a concurrent data structure discover the new paradigms in c 11 c 14 and c 17 explore and use best practices to create high performance solutions learn multithreading and the memory model through case studies understand patterns and their application in concurrent programming who this book is for if you are a developer looking to learn concurrent programming with modern paradigms of c this book is for you

unlock the full potential of your c programming skills with mastering concurrency and multithreading in c unlock the secrets of expert level skills this indispensable guide delves deep into the world of concurrency offering seasoned developers advanced techniques to handle complex computing tasks with a focus on modern c standards you ll explore the intricacies of memory management synchronization and performance optimization all crafted to elevate your proficiency in crafting efficient multithreaded applications each chapter provides a comprehensive exploration of essential topics such as thread lifecycle management parallel algorithms debugging techniques and the utilization of the c standard library for concurrency through detailed explanations and practical examples you ll gain a profound understanding of advanced thread management and sophisticated parallel patterns ensuring your applications are prepared to meet the demands of modern computing environments embark on a journey through real world applications and insightful case studies where theory transitions seamlessly into practice whether you re designing high performance web servers or optimizing financial systems this book imparts invaluable strategies and lessons learned from industry successes elevate your c expertise to unmatched heights with insights from leading software professionals and confidently tackle the challenges of concurrency in today s dynamic technological landscape

as multicore and manycore systems become increasingly dominant handling concurrency will be one of the most crucial challenges developers face just as most mainstream programmers have been required to master guis and objects so it will be for concurrency to achieve the performance they need developers will have to build and master new libraries tools runtime systems language extensions and above all new programming best practices in effective concurrency in c world renowned programming guru herb sutter identifies and illuminates those best practices building on the innovative format pioneered by scott meyers s best selling effective c sutter presents 35 practical bite size chapters each explaining one proven technique for more successful concurrent programming each technique is illuminated through carefully crafted programming examples written in c 0x the new portable c standard ensuring that programmers will be able to rely on them for many years to come sutter also provides case studies and exercises that go beyond the standard effective format to deliver even more engaging hands on practice and help developers achieve even deeper mastery

mastering the craft of c programming unraveling the secrets of expert level programming is an indispensable resource for seasoned developers aspiring to elevate their c programming expertise this comprehensive guide delves into the intricate aspects of c presenting a meticulously structured exploration of advanced concepts such as dynamic memory management multithreading and complex data structures each chapter is thoughtfully designed to expand the reader s knowledge offering insights and techniques that stand at the frontier of modern programming practices with a keen focus on practical

application this book provides in depth examples and explanations that illuminate the sophisticated features and capabilities of c topics such as leveraging preprocessing for efficiency optimizing file i o operations and utilizing c libraries are presented in a clear structured manner the integration of debugging strategies along with advanced algorithms equips readers with the tools necessary to write efficient robust and scalable applications emphasizing both theory and practice this text serves as a complete guide for enhancing one s mastery of c programming ideal for those who already possess a foundational understanding of c this book is a gateway to the next level of programming proficiency by bridging complex topics with practical examples and expert guidance mastering the craft of c programming enables its readers to harness the full potential of this powerful language whether building high performance applications or exploring new programming paradigms this book is an essential companion on the path to becoming an expert c programmer

explore the depths of c programming with mastering c advanced techniques and best practices a comprehensive guide designed to unlock the full potential of this powerful and foundational language aimed at programmers with a basic grasp of c this book aspires to elevate your skills to an advanced level equipping you to tackle complex computing challenges with confidence and expertise delve into intricate memory management the nuanced art of pointers mastery of data structures concurrency and network programming each chapter is engineered with detailed explanations practical examples and real world applications ensuring you not only understand advanced concepts but also apply them effectively in your projects focusing on performance optimization secure coding practices and advanced debugging techniques mastering c advanced techniques and best practices equips you to write efficient secure and highly optimized c programs whether developing system software working on embedded systems or creating performance critical applications this book is an invaluable resource for refining your programming skills and enhancing the quality of your work embrace the challenge of mastering advanced c programming and distinguish yourself as an expert with mastering c advanced techniques and best practices let this guide accompany you on your journey to becoming not just a programmer but a craftsman in the art of c programming

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 frédéric flayol 4pro 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

this book is intended for a senior level undergraduate or a graduate course in a computer science or engineering department the prerequisites for the book are general in nature a student should have the mathematical sophistication of a senior in computer science or engineering be comfortable with the techniques for constructing ordinary sequential programs and be familiar with practical issues relating to concurrency in the operating systems area this foundation can be supplied by the standard introductory level undergraduate mathematics and computer science courses together with an undergraduate course in operating systems we review much of this material in the first three chapters of the book chapter 1 covers those aspects of an undergraduate operating systems course that are relevant while chapters 2 and 3 contain an introduction to the mathematics of formal reasoning and develop the hoare logic approach to reasoning about sequential programs in chapter 3 we present methods for reasoning about abstract data types later we use abstract data types as a structuring mechanism when we consider monitors remote procedure calls and databases also in chapter 3 we discuss coroutines which although sequential involve some of the same reasoning techniques as concurrent constructs chapters 4 and 5 cover shared memory systems including critical sections semaphores and monitors chapters 6 7 and 8 cover message passing systems including synchronous and asynchronous message passing virtual circuits and datagrams and remote procedure calls and rendezvous chapter 9 discusses failures in centralized and distributed systems including failure atomicity and stable storage it also contains several distributed algorithms relevant to issues in the text including distributed synchronization the byzantine generals problem and clock synchronization chapters 10 11 and 12 discuss centralized and distributed transaction processing systems topics include typed and untyped databases nested transactions replication and atomic commit protocols we develop the design theory of database concurrency control and failure atomicity we show how this theory can be used to obtain increased concurrency in object oriented databases where the database items are instances of abstract data types distributed algorithms for leader election are also introduced because of their relationship to atomic commit protocols

examines the theory and design of self timed systems the logical design of self timed circuits stcs provides a focal point for on the one hand those interested in formal models of parallel computation and on the other hardware designers the approach taken by the authors is to address general issues concerning the very nature of concurrency as well as to demonstrate the particular features of asynchronous design the book presents formal models of the specification and verification of parallel processes and describes methods for self timed circuit synthesis and analysis it is augmented by a demonstration version of a cad system called forrage which consists of subsystems of behavior verification self timed circuit analysis and synthesis the system can be run on a pc

computer systems organization parallel architecture

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