Mastering C++ Multithreading (Paperback)

By Maya Posch

Packt Publishing Limited, United Kingdom, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Master multithreading and concurrent processing with C++ About This Book * Delve into the fundamentals of multithreading and concurrency and find out how to implement them * Explore atomic operations to optimize code performance * Apply concurrency to both distributed computing and GPGPU processing Who This Book Is For This book is for intermediate C++ developers who wish to extend their knowledge of multithreading and concurrent processing. You should have basic experience with multithreading and be comfortable using C++ development toolchains on the command line. What You Will Learn * Deep dive into the details of the how various operating systems currently implement multithreading * Choose the best multithreading APIs when designing a new application * Explore the use of mutexes, spin-locks, and other synchronization concepts and see how to safely pass data between threads * Understand the level of API support provided by various C++ toolchains * Resolve common issues in multithreaded code and recognize common pitfalls using tools such as Memcheck, CacheGrind, DRD, Helgrind, and more * Discover the nature of atomic operations and understand how they can be...

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