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Build efficient and fast Qt applications, target performance problems, and discover

solutions to refine your codeKey FeaturesBuild efficient and concurrent applications in Qt to create cross-platform applicationsIdentify performance bottlenecks and apply the correct algorithm to improve application performanceDelve into parallel programming and memory management to optimize your codeBook DescriptionAchieving efficient code through performance tuning is one of the key challenges faced by many programmers. This book looks at Qt programming from a performance perspective. You'll explore the performance problems encountered when using the Qt framework and means and ways to resolve them and optimize performance.The book highlights performance improvements and new features released in Qt 5.9, Qt 5.11, and 5.12 (LTE). You'll master general computer performance best practices and tools, which can help you identify the reasons behind low performance, and the most common performance pitfalls experienced when using the Qt framework. In the following chapters, you'll explore multithreading and asynchronous programming with C++ and Qt and learn the importance and efficient use of data structures. You'll also get the opportunity to work through techniques such as memory management and design guidelines, which are essential to improve application performance. Comprehensive sections that cover all these concepts will prepare you for gaining hands-on experience of some of Qt's most exciting application fields

- the mobile and embedded development domains. By the end of this book, you'll be ready to build Qt applications that are more efficient, concurrent, and performance-oriented in nature. What you will learn: Understand classic performance best practices. Get to grips with modern hardware architecture and its performance impact. Implement tools and procedures used in performance optimization. Grasp Qt-specific work techniques for graphical user interface (GUI) and platform programming. Make Transmission Control Protocol (TCP) and Hypertext Transfer Protocol (HTTP) performant and use the relevant Qt classes. Discover the improvements Qt 5.9 (and the upcoming versions) holds in store. Explore Qt's graphic engine architecture, strengths, and weaknesses. Who this book is for: This book is designed for Qt developers who wish to build highly performance applications for desktop and embedded devices. Programming Experience with C++ is required.

Table of Contents

- Understanding Performant Programs
- Profiling to Find Bottlenecks
- Deep dive into C++ and Performance Using Data Structures and Algorithms Efficiently
- An In-depth guide to Concurrency and Multithreading
- Performance Failures and How to Overcome Them
- Understanding I/O Performance and Overcoming Related Problems
- Optimizing Graphical Performance
- Optimizing Network Performance
- Qt Performance On Embedded and Mobile Platforms
- Testing and Deploying Qt Applications.

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