In-Depth Multithreading

Material based on Qt 5.12, created on March 31, 2021

The Qt, OpenGL and C++ Experts
Multithreading Concepts
- Terms and Definitions
- Processes vs. Threads
- Shared Data
- Synchronization Primitives
  - Mutexes
  - Condition Variables
  - Shared Mutexes
  - Semaphores

Multithreading In Qt
- Multithreading - Foundation
  - Introduction
  - Using Threads for Isolation and Responsiveness
  - Using Threads to Increase Throughput
  - Synchronization
  - Miscellaneous
- Multithreading - QtConcurrent
  - Synchronous Operation
  - Futures
  - Exception Handling
  - Asynchronous Operation
- Multithreading - Atomic Operations
  - The C++11 Memory Model
  - False Sharing
  - Atomic Operations
- Multithreading - Relation to Model/View
- Qt and the Standard Library threading facilities