Realtime Programming
for the QNX® Neutrino® RTOS

QNX SOFTWARE SYSTEMS

NOTES:

QNX, Momentics, Neutrino, Photon microGUI, and "Build a more reliable world" are registered trademarks in certain jurisdictions, and PhAB, Phindows, and Qnet are trademarks of QNX Software Systems.

All other trademarks and trade names belong to their respective owners.

The QNX® Neutrino® RTOS:

– gives you the foundation you need for building systems that:

- are robust and resilient
- meet tight timing requirements
- handle large, complex tasks in a modular and maintainable manner
- fit into a relatively small memory footprint
- talk to a large variety of hardware

Realtime Programming for the QNX Neutrino RTOS   2010/06/21 R27

NOTES:

2

In this course you'll learn:

– the architecture of the QNX® Neutrino® RTOS and how it helps you create robust, resilient systems

– a bit about your development tools

– how to properly utilise threads where needed

– how to write systems that consist of a number of cooperating components (processes)…

– ... that talk to one another using various forms of interprocess communication (IPC)

– how to write applications that meet their deadlines

– a bit about writing drivers

– a bit about configuring your target

Realtime Programming for the QNX Neutrino RTOS 2010/06/21 R27

3

NOTES:

Topics:

QNX Neutrino Architecture

Compiling and Debugging

Processes, Threads & Synchronization

Interprocess Communication

Comparison of IPC Methods

Introduction to Hardware Programming

Time

Building a Boot Image

Introduction to Resource Managers

NOTES: