

OS Tech#

This page is intended to be an exhaustive table of contents for all QNX-OS -code, -technology, or -design related pages.

Notes on existing code

- [Anatomy of a System Call, and other things...](#)
- [Symmetric Multi Processing \(SMP\)](#)
- [The Instrumented Kernel](#)
- FIXME: Malloc Optimizations/[Debug Malloc](#)
- FIXME: Asynchronous Message Passing
- [Adaptive Partitioning](#)
- FIXME: Benchmarks & Performance (aka QNX vs World)
- [Virtual memory manager algorithms](#)
- [Virtual Memory Manager Data Structures](#)
- [Master Instrumentation Event Table](#)
- [Kernel Introspection](#) A proposal for a high-bandwidth and regular way of getting **lots** of statistics out of the kernel.
- [Kernel Reading Notes](#) A place for people to record their observations on the kernel code.
- [Send/Receive/Reply](#)
- [SuperLock](#) - An amusing tale on the levels of memory locking

Performance measurements and benchmarks:#

- [compiler](#)
- kernel performance

Brainstorming: New ideas or problems

- [Kernel Debugability](#)
- [The mmaped-file lockup problem](#)

Articles#

Articles located in the documents section

- [About Pulses and Pulse Events](#)
- [Design Decoupling in a Message-Passing Environment](#)
- [Handling Mount Requests in Your Resource Manager](#)
- [Pathname Resolution with a Bit on Union Mountpoints](#)
- [Pay the Piper](#) About efficient pipe mechanisms.
- [Protecting Your Data in a Multi-Threaded App](#)
- [QNX Neutrino Resource Managers: Using MsgSend\(\) and MsgReply\(\)](#)
- [QNX Priorities - You Aren't in UNIX Anymore](#)
- [Sharing a File Descriptor between Two Processes](#)

- [SMP: Two Processors and Beyond](#)
- [Tick-tock Part 1 - Understanding the Neutrino micro kernel's concept of time](#)
- [Tick-tock Part 2 - Understanding the Neutrino micro kernel's concept of time](#)
- [To Resource Manager or Not to Resource Manager](#)
- [What is Real Time and Why Do I Need It?](#)
- (see also the [documents/articles section](#) for stuff we might have missed)

Videos on youtube.com#

- [Instrumented Kernel](#)
- Adaptive Partitioning Scheduler, [part 1.1](#) [part 1.2](#) [part 2.1](#) [part 2.2](#)
 - those videos refer to slides numbers in this [APS slide package](#)

Webinars#

- [October 17th, 2007 - Get the inside track on 27 years of microkernel innovation](#)

Can't find it?#

Post to the [OSTech](#) forum.