

XEN QUICK START

Get started with Embedded Xen

Many companies struggle with the learning curve involved with virtualization on embedded platforms. The Xen Quick Start package by DornerWorks provides the fast launchpad that your project needs so that you can get back to focusing on what you do best.

DornerWorks has been working on hypervisor solutions like the Xen-based Virtuosity™ for several years, supported in part by numerous Small Business Innovative Research contract awards from the US Navy and DARPA. We already provide a free distribution of Virtuosity™ on multiple embedded ARM platforms, and DornerWorks is recommended for design services by NXP as a **Proven Partner**.

With our Xen Quick Start package, you get a fast start to your Xen-based project, and are free to focus on your product.

Included in the Package

- Embedded Virtuosity™ on a working platform
- A workshop where you and your team learn how to use it
- A consulting report with recommendations on how to apply it to the needs of your product

Key Benefits

- A fast start to your Xen-based project
- Freedom to focus on your product
- Xen learning curve conquered

Similar Solutions Provided for



Here's how to get started



Order the XQS



Learn how Xen can enhance your product



Launch your project



DORNERWORKS

Start developing
your project
with us!



www.DornerWorks.com
sales@DornerWorks.com
616.245.8369

Xen Quick Start on the NXP i.MX8

The **Xen Quick Start** (XQS) package provides up-front hands-on support for those looking to *shorten the learning curve* associated with starting a project using Virtuosity™ or embedded Xen.

You should expect that the **XQS** package will be customized for your product and your application, so here's some more detail on what kinds of customization you can expect from DornerWorks for your SoC platform based on the **NXP i.MX8**.

VIRTUOSITY™

NXP

◆ A Working Platform

Your **XQS** package will establish a *working demonstratable platform* in your laboratory, including:

- Virtuosity™ installed on your development board
- Control domain (dom0) running with default configuration
- Guest domains (domU) running with Linux
- System configurations such as domU scheduling algorithms, I/O peripheral passthroughs, memory, shared memory (if any), cpu core affiliations, and FPGA fabric inclusion
- Yocto scripts to help you configure your system and build Virtuosity™

◆ A Training Workshop

We won't leave you hanging with just a working platform. *We'll show you how to use it, too*, through a hands-on tutorial style workshop with your development team. In that workshop, you can expect to learn:

- Key benefits of virtualization in general, Xen specifically, and all on the chosen platform
- Yocto build scripts
- How to set up and configure Virtuosity™ on a development board, starting with unboxing
- How to direct key peripherals to the proper guest domains
- How to use hardware virtualization to complement software virtualization

◆ A Consulting Report

To best apply the **XQS** package to your product, you will also get consulting time as part of the package, which will result in clear, written recommendations from our experts. The consulting can cover a range of topics, including:

- Proposed software architecture for your solution
- How to dedicate real-time activities to certain processor cores
- How best to manage and architect I/O across cores, peripherals, and FPGA blocks if applicable
- AMP vs SMP architectural trade-offs and use cases
- Safety and security certification considerations
- Improving security using driver/firewall domains
- Boot time optimization

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Get started today!

Our simple 3-step plan will determine a technology development course of action that best fits your needs.



Start

Develop



Deliver

