

ENABLE EMBEDDED VIRTUALIZATION



WITH SPEED &
CONFIDENCE

Many companies struggle with the learning curve involved with virtualization on embedded platforms.

But we don't think that should stand in your way.

DornerWorks **Virtuosity Quick Start Package** jumpstarts your embedded virtualization project, giving you the tools and training to grow your business with confidence, and the freedom to focus on your customers.

FRUSTRATION-FREE EMBEDDED VIRTUALIZATION SUPERCHARGED WITH

VIRTUOSITY[®]



The complexity of embedded virtualization shouldn't hold your team back from innovation.

We can help you build confidence into your product development with embedded software and electronics engineering services.



A WORKING PLATFORM

- Open source Virtuosity running on your development board
- Guest domains
- System configuration guidance
- Yocto scripts to help you build



A TRAINING WORKSHOP

Our engineers will show you how to use your virtualized platform with a hands-on tutorial for your development team.



A ROADMAP TO SUCCESS

We will consult with you on:

- Ideal software architecture
- I/O management
- Safety and security considerations
- Boot time optimization, and more

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“ We have come to a point where our software is something that's destined

NOT JUST FOR A LAB, BUT FOR AN AIRPLANE

Each of you has contributed greatly to this effort, and each of you should be proud of your contributions. Thank you for all of your hard work.

”

~Senior Engineer



INDUSTRIAL REAL-TIME

An industrial customer wanted to run VxWorks 7 and Linux operating systems on their electrical substation controller so that they could port their existing real-time legacy code while isolating it from their cloud connected IoT platform.

DornerWorks Virtuosity helped the company isolate operational processes from real-time monitoring, and eliminate any loss or corruption of data while running those applications simultaneously.



VIRTUAL DEV ENVIRONMENT

- The Virtuosity hypervisor distribution, certified to the FACE Technical Standard, enabled distributed development of R-EGI (Resilient Embedded GNS/INS) on the milCloud.
- In one week, DornerWorks ported the R-EGI software to Virtuosity running on a Xilinx UltraScale+ MPSoC ZCU102 board.
- Virtuosity was then contributed to the milCloud, which enabled remote access for the R-EGI development team.



EMBEDDED HYPERVISOR

DornerWorks is developing extensions to the open source Xen Project hypervisor that will meet requirements for safety and security:

- Compliance with the ARINC 653 standard
- Time and space partitioning
- I/O partitioning
- Deterministic bandwidth allocation for guest domains
- Deterministic, partitioned interrupt servicing under ARINC 653



GET STARTED TODAY



Contact us for a free consultation and together we will determine a solution that fits your needs.

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SCHEDULE A CONSULTATION

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