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Mission-Critical Real-Time Solutions

Hardware & Software Capabilities
Overview



Unmatched Solutions Across The Globe

Concurrent Real-Time is unrivaled in helping companies accelerate innovation, reduce time-to-market, and improve their competitive advantage. The breadth and depth of Concurrent Real-Time's expertise serves multiple industries and applications, with our innovations powering development and deployment around the world.

Our custom engineering and consulting capabilities, coupled with a global sales and support staff in North America, Europe, and Asia means we can meet your needs wherever you are.



What We DO?

We dedicate our expertise to the aerospace & defense, robotics, transportation, medical, and industrial control industries with a complete, cutting-edge solutions for:

- ◆ **X-in-the-loop simulation**
 - Hardware-in-the-loop
 - Software-in-the-loop
 - Man-in-the-loop
 - AI-in-the-loop simulation
- ◆ **Data acquisition & processing**
- ◆ **Digital Twins**
- ◆ **Process Control**
- ◆ **Transaction Processing**



Why Choose Concurrent?

- ◆ **Expertise in Real-Time Systems:**

Over 50 years of experience & extensive expertise in mission-critical, real-time computing.
- ◆ **Comprehensive Products:**

Including real-time operating systems, development tools even specialized hardware.
- ◆ **Focus on Mission-Critical Applications:**

Purpose-built for critical use cases within Aerospace, Defense and Medical fields.
- ◆ **Global Presence with Local Support:**

Offices in over 6 countries, they offer global reach coupled with local support.

Company History

For more than 50 years, we have provided the best-in-class, real-time solutions and support for mission-critical applications worldwide.

Concurrent Real-Time is owned by Spectris, plc, and is part of its HBK Virtual Test Division. Spectris, plc specializes in precision instrumentation and controls, and employs over 7,500 worldwide.

Featured Customers

Ghost Robotics' military robot dogs needed a flawless operating system to maintain base security. Concurrent Real-Time's RedHawk Linux delivered guaranteed performance, eliminating glitches and ensuring mission success.



Hardware Products

◆ iHawk Servers

A high-performance, real-time Linux-based computer platform, using the latest Intel and AMD processors to allow our customers to scale and use COTS I/O products.

◆ I/O Cards

We offer a wide range of PCIe I/O cards to meet a wide array of use cases, including support third party cards in our RedHawk Real Time environment.

◆ ImaGen

A real-time visual server family that offers fully integrated, affordable high-performance image generation (IG) solutions for real-time simulation & modeling applications

◆ Embedded Systems

We partner with a range of embedded hardware provider, including NVIDIA Jetson, NXP Layerscape, and more to provide high performance computing in power-efficient, dedicated form factor architectures.

Software Products

◆ RedHawk Linux

With extremely low latency, advanced tuning features & real-time determinism, RedHawk is the most advanced open-source RTOS available in the marketplace today.

◆ SIMulation Workbench

A complete framework for running real-time Hardware in the Loop simulations using your own C code or third party Simulation code from companies such as MatLab and Adams.

◆ Signal Workbench

Provides flexible programmable signal conditioning and fault insertion solutions for data acquisition applications.

◆ RedHawk KVM-RT

Create both real-time and non-real-time virtual machines allowing customers to consolidate subsystems and incorporate legacy applications.

◆ FPGA Workbench

Programmable high performance FPGA solutions with a library of pre-build IP cores & the capability of building your own IP core modules that work within the RedHawk OS.

◆ NightStar Tools

Powerful set of tools for developing applications and tuning performance on RedHawk OS.

Engineering and Consulting

All systems purchased from Concurrent are delivered to our customers preconfigured and application-ready to run their real-time applications. In addition, Concurrent Real-Time has always helped our customers develop application-specific and custom solutions to meet their needs in a real-time environment.

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HOW CAN WE HELP?

Reach out and let us know what your real-time challenges are. We look forward to talking about your specific requirements today.