

Concurrent Real-Time Introduces RedHawk Linux for NVIDIA Jetson TX2

RedHawk delivers guaranteed response and determinism for time-critical autonomous applications

POMPANO BEACH, Fla., Feb. 6, 2018 /PRNewswire/ -- Concurrent Real-Time, a global provider of high-performance Linux® solutions, today announced a new version of the RedHawk™ Linux operating system that includes support for the Jetson TX2 platform. In leveraging the TX2, RedHawk Linux is now in position to support embedded applications in aerospace, defense, industrial and medical markets that require high-performance, low-power consumption and deterministic response.

RedHawk is currently the industry's leading real-time Linux operating system for x86 systems. It is widely used in mission-critical applications including simulation, training, data acquisition and process control. The release of RedHawk Linux version 7.3.2 now makes RedHawk real-time enhancements available to ARM64 embedded applications.

The Jetson TX2 is an ARM64-based AI supercomputer on a module powered by NVIDIA's Pascal™ architecture. The Jetson TX2 offers high performance in a small, power-efficient form factor that's ideal for intelligent edge devices like robots, drones, smart cameras, and portable medical devices. The TX2 supports all the features of the earlier Jetson TX1 module while enabling bigger, more complex deep neural networks.

The RedHawk embedded development environment includes Concurrent's NightStar, a powerful suite of tools that can be used to launch new applications more quickly. NightStar is a fully integrated tool set for debugging, analyzing, and tuning latency-sensitive embedded applications. NightStar tools run with minimal intrusion, enabling developers to graphically view and trace the interaction of their application threads with the Linux kernel in real-time in order to uncover performance bottlenecks.

"RedHawk is the ideal RTOS for complex embedded projects such as intelligent devices, advanced robotic systems, networking and other autonomous applications," said Ken Jackson, Concurrent Real-Time President and CEO. "With its unrivaled combination of ultra-low latency, high determinism, and advanced debugging tools, RedHawk delivers the guaranteed performance required to support an emerging wave of Jetson-based products."

About Concurrent

Concurrent Real-Time is the industry's foremost provider of high-performance real-time computer systems, solutions and software for commercial and government markets. Its real-time Linux solutions deliver hard real-time performance in support of the world's most sophisticated hardware in-the-loop and man-in-the-loop simulation, high-speed data acquisition, process control and low-latency transaction processing applications. With over 50 years of experience in real-time solutions, Concurrent provides sales and support from offices throughout North America, Europe and Asia. Visit www.concurrent-rt.com for further information.

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