

## **VRTX Real-Time Operating System**

Source: Mentor Graphics Corporation

The VRTX Real-Time Operating System (RTOS) provides an advanced, high-performance, modular solution for embedded systems based on a wide range of target processors and cores

Mentor Graphics Corporational-Time Operating System (RTOS) provides an advanced, high-performance, modular solution for embedded systems based on a wide range of target processors and cores. VRTX leads the industry in reliability, real-time performance, and advanced software development tools.

As a testament to its reliability, VRTX is the only commercial RTOS certifiable under the US FAA's stringent RTCA/ DO-178B level A standard for mission-critical aerospace systems, the highest in the avionics industry. To achieve this, VRTX has undergone rigorous 100% code coverage testing and requirements traceability analysis.

VRTX also scales to meet your memory and functionality requirements, whether you need a compact multitasking executive or a complete OS with advanced features such as POSIX, memory protection, priority inheritance, Java, and comprehensive networking support.

With an 18-year track record of upward compatibility, VRTX enables you to easily reuse software from one design generation to the next.

### **Major Product Features:**

- Premier multitasking development tools reduce time-to-market
- Proven technology provides a solid foundation for your application
- Deterministic, preemptive multitasking kernels deliver industry-leading performance
- Scalable solutions maximize your flexibility in making performance, functionality, and size tradeoffs
- MMU support enhances reliability and optimizes performance through fine-grain cache control
- Standard POSIX interfaces provide familiar, intuitive APIs and ease host-based prototyping
- 18-year track record of upward compatibility preserves investment in existing code