

Green Hills Software, Inc.

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**INTEGRITY RTOS**

INTEGRITY is a secure, royalty-free RTOS intended for use in embedded systems that require maximum safety, reliability, and security. INTEGRITY represents the most advanced RTOS technology on the market.

INTEGRITY has been successfully deployed in a wide range of applications including industrial control devices certified up to IEC 61508 SIL3, Class II/III FDA approved medical devices, and FAA DO-178B Level A certified avionics systems.

INTEGRITY provides support for time, space, and resource partitioning between applications and has been designed to ensure that an error or failure in one partition cannot prevent an application in another partition from running or disrupt the execution of the kernel. INTEGRITY runs on the most common processors and commercial CPU boards available and offers an extensive suite of middleware that includes file systems, USB, graphics, networking, and security protocols.

The MULTI IDE offers the industry's most powerful, proven tools and optimizing C/C++ compilers for developing embedded software with maximum reliability, maximum performance, and minimum code size – allowing you to develop, debug, and optimize code more quickly.

Green Hills also offers a complete platform for industrial safety targeted for industrial product development. Based on INTEGRITY and MULTI, this platform offers unique additional components that provide a complete solution for developing safe, reliable, and secure software for industrial control and automation systems while reducing product cost, risk, and time to market. This platform includes a version of INTEGRITY certified to IEC 61508 SIL3, IEC 61508 certificate and report, safety manual, optional confidence from use report for MULTI, defect notification, and optional services including product certification assistance and training.

This Platform optionally includes other development tools that are integrated with INTEGRITY and MULTI: Telelogic's Rhapsody UML modeling/simulation and code generation tools, Esterel's SCADE modeling and IEC 61508 code generation tools, and Vector Software's VectorCast unit test tools.

Green Hills Platform for Industrial Safety**FEATURES:**

- Green Hills is the leader in high-performance compilers, software development tools, and RTOSs for developers of embedded systems
- INTEGRITY is the only commercial royalty-free RTOS suitable for systems demanding total reliability, safety, and absolute security
- INTEGRITY's secure partitioning architecture supports multiple levels of safety criticality executing at the same time on one processor
- INTEGRITY delivers the absolute minimum interrupt latency and complete deterministic execution
- INTEGRITY is POSIX conformant to the latest IEEE POSIX standard
- INTEGRITY supports advanced middleware for file systems, USB, embedded graphics, networking, wireless and security protocols
- MULTI supports code development, optimizing compilation, and extensive debugging features in C/C++ for all major processors
- MULTI's advanced target trace capabilities allow developers to step back in time through executed code to eradicate hard-to-find bugs
- MULTI integration: Telelogic Rhapsody UML modeling/simulation and code generation tools
- MULTI integration: Esterel Technologies' SCADE software modeling and IEC 61508 certified code generation for all SIL levels
- MULTI integration: Vector Software's VectorCast software unit level test and code coverage analysis
- IEC 61508 certification: INTEGRITY safety manual, SIL3 certificate/report; optional MULTI confidence from use report and services