# WindView* Diagnostic and Analysis Tool

- Run-Time Instrumented to Capture All Relevant Activity
- Logging of Events of Interest With a High-Resolution Time Stamp
- Event Collection Selectively Enabled/Disabled at Run-Time
- User-Defined Event-Logging Capability
- GUI Eases Management of Data
- Simplifies Diagnosis Problems Relating to Task Interaction
- Detects Race Conditions, Deadlocks' etc. Easily
- Easily Validates Application Responsiveness and Performance

Part of Wind River's WindPower* tool suite, WindView* is a diagnostic and analysis tool that provides detailed visibility into the dynamic operation of an embedded system. Using it, the user can quickly and easily visualize the complicated interaction among tasks, interrupt service routines, and system objects in an application. This information is presented and can be manipulated through a state-of-the-art graphical user interface (GUI).

WindView gives developers the ability to examine the full history of the system, rather than just a snapshot in time. In addition, it allows the interaction of complex event data to be easily analyzed. It also features a comprehensive system-level debugging capability which can help to identify all possible lock-outs and performance bottlenecks — locating problems in minutes that might otherwise have taken weeks or months to diagnose.

In WindView, the real-time operating system is instrumented to log events of interest (with minimal intrusion), including context switches, semaphore gives and takes, message queue sends and receives, watchdog timers, interrupts, signals, and wind microkernel internals. Because each event is marked with a precise high-resolution time stamp (microsecond resolution), the user can see exactly when the event happened as well as the elapsed
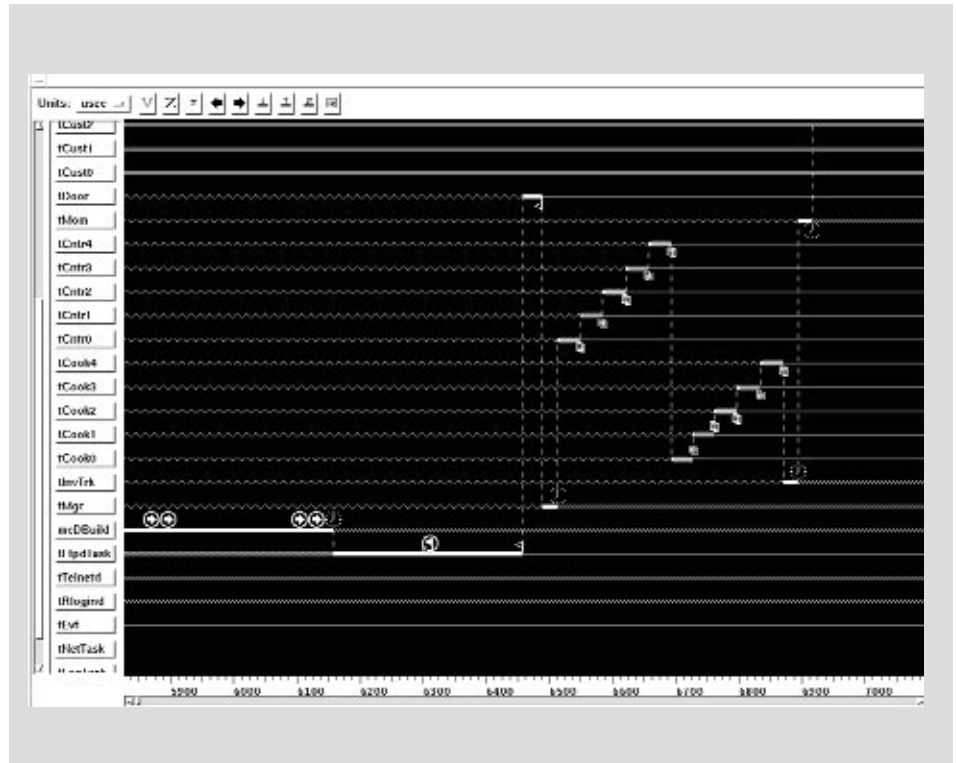
time between events. The instrumentation can be selectively enabled and disabled at run-time, and the user can choose when to upload data to the host. WindView gives users the option of logging their own events by setting "eventpoints." Like breakpoints, eventpoints can be set and deleted dynamically as the application runs.

WindView features a true GUI interface that allows developers to access and manage tremendous amounts of information with ease. The GUI gives the user precise control over the tasks and events displayed. Tasks and events that are not relevant to a given analysis can be filtered out, allowing the developer to focus on the problem at hand.

HOST SYSTEMS SUPPORTED:
Sun SPARCstations and HP9000/700 series workstations

PROCESSORS SUPPORTED:
i960® Processor family

AVAILABILITY:
Now

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