



# Object Ada

## Real-Time for VxWorks

### Tools Support:

- Full IDE
- Ada Development Toolkit (ADT)
- Eclipse plug-ins for Wind River Workbench environment
- Efficient cross compiler
- High quality code generator
- Source-level target debugger
- Ethernet and serial download and debug facilities

### Ada Runtime Features:

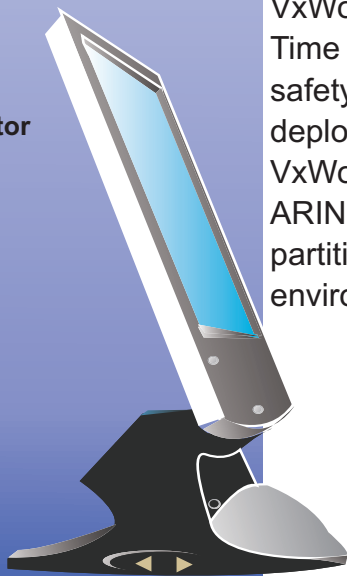
- Full Ada95 runtime for VxWorks or VxWorks 653
- Provides support for scheduling and timing, tasking, signal handling, memory management, and input/output
- Interrupt support using POSIX signals
- Compatible with Wind River supplied BSPs

### Host Platform Support:

- Windows XP
- Windows Vista

### Target Support:

- PowerPC
- x86
- VxWorks Simulator targets



### ObjectAda®: Bringing Quality to Hard Real-Time applications

ObjectAda Real-Time addresses the aspects of development that VxWorks and Workbench developers are concerned with: a reliable development environment and deployment environment, tools availability, flexibility, determinism and real-time programming support.

### Close Relationships

As a Wind River Strategic Software Partner, Atego is committed to providing the highest quality support for Wind River's VxWorks and Workbench products. ObjectAda Real-Time products are available for embedded and real-time use with standard VxWorks and ObjectAda Real-Time RAVEN is available for safety-critical development and deployment together with VxWorks 653, Wind River's ARINC-653 conformant multi-partition DO-178B-certifiable environment.

### Development Environments

ObjectAda Real-Time for VxWorks has been tested to assure compatibility with VxWorks RTOS execution and Workbench functionality. In addition to the complete Ada development environment supplied by ObjectAda, the VxWorks and Workbench development environment are also available to users for system development, analysis, debugging and real-time monitoring.

**WIND RIVER**

### Reliability

Ada has long been the preferred choice for the most reliable systems for complex application development. ObjectAda Real-Time products have been deployed in many mission-critical systems for flight management, rail, nuclear power, space, weapons systems and command and control to name a few.

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## Real-Time for VxWorks

### ObjectAda Real-Time - Product Packages and Options

The basic feature set is appropriate for any hard real-time application where a small, fast kernel is needed. Includes:

- Fully Integrated Development Environment (IDE)
- Ada 95 cross compiler
- Browser
- Cross debugger
- Full Ada95 runtime
- Customizable stack & heap size
- Flexible scheduling policies
- High-level Ada 95 task synchronization
- VxWorks signal handling
- Full I/O support including standard Ada Input, Output and Error types plus packages for Sequential, Direct, Text and Wide-Text IO

awareness, Atego provides developers with built-in support for the project manager, editor, difference capability, compiler, debugger, and command history.

With awareness of both the Atego ObjectAda toolchain and Workbench, developers can use strengths of both environments. For instance, Workbench enables analysis of task status and the VxWorks kernel threads.

ObjectAda Real-Time produces DWARF debugging aggregates, allowing developers to use Workbench to debug their Ada programs including mixed language applications debug (e.g. Ada and C). Alternatively, the ObjectAda debugger could be used to provide the advantage of a higher fidelity display of complex Ada data types.

### Professional Services and Support

Embedded and real-time experts with years of certification expertise are available to help with your development and maintenance challenges.

### Wind River Workbench Integration

The ObjectAda Development Toolkit is Eclipse-based and accommodates integration with Wind River's Workbench technology. By delivering the power of the standard Eclipse environment with Ada programming

### Runtime Features

1:1 multitasking model maps one Ada task to one POSIX thread  
VxWorks interrupts are supported by protected procedures handlers.  
The runtime support is built on VxWorks POSIX signal handling support

To obtain more information, please contact Atego at [www.atego.com](http://www.atego.com) or call one of our sales offices

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