

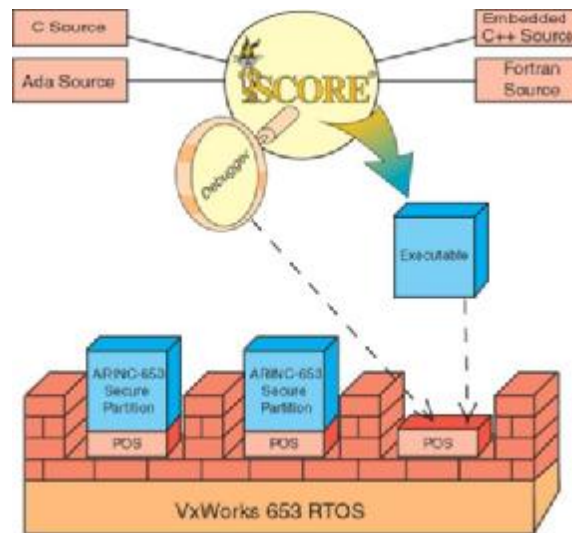


FIRST MATRIX

# Product summary:

## SCORE/VxWorks Integration

### The Integrated Workbench Solution for VxWorks



### Features

- General Purpose or ARINC 653 Platform
- Pragma Profile ARINC\_653\_SAFE Helps Detect Unsafe Code at Compile Time
- Integrated Ada Library Manager
- Integrated Source Level Debugger
- Targets PowerPC; Intel 80x86 Architecture and VxSim
- Quicker Application Development and Lower Certification Costs

### An Integrated Workbench Solution

Our SCORE® real-time Ada development environment for VxWorks offers a solution for software developers where a combination of Ada's safety critical features and VxWorks' RTOS capability is required. SCORE can target either the standard VxWorks RTOS or, if required, the ARINC 653 compliant version. The SCORE/VxWorks integration provides for seamless use with full support of the VxWorks debugger for visibility of VxWorks features and functions.

### Support & Other Services

Complete support for the SCORE product line is available including user documentation, hot-line support, high level support, full consultation, installation and training, and custom software development services.

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A Complete Solution	SCORE® for VxWorks provides a complete solution to an integrated Ada development environment targeting VxWorks.
A Single Run-Time Process for All Languages And Targets	SCORE for VxWorks provides a consistent set of APIs to either ARINC 653 compliant functions or to the standard VxWorks RTOS. This API remains the same as you change target platforms and languages.
An Integrated Development Environment	With both DDC-I and Wind River being Eclipse Foundation Members, adding SCORE's Ada plug-in to your Wind River Workbench produces an integrated development environment that allows all development to take place from a single GUI. Both sets of tools have immediate access to each other's resources adding significantly to your productivity.
Experience	We have a proven record in safety critical, real-time software. Our engineering staff has a wealth of expertise in the field of real-time safety critical software and is available for consultation to help you get your product flying.
Ada Run-Time Systems	SCORE for VxWorks includes an Ada run-time system which maps common Ada concepts to VxWorks functions such as Ada tasks mapped to VxWorks threads. The full capabilities of Ada are supported. SCORE for VxWorks includes a small Ada run-time system that uses only the safe features of the Ada language. Exceptions, dynamic memory allocation, protected objects, and Ada tasking, have been eliminated to ensure that the resultant executable is deterministic. Pragma interface (ARINC_653_Safe) can be specified at compile time to detect user code that will invoke these unsafe features. The sooner such problems are detected, the cheaper they are to fix, and the use of this pragma enables detection at compile time, the earliest time possible.
Debugging	SCORE offers source level debugging using the VxWorks debugger for full VxWorks awareness.
Targets Supported	Intel 80x86; PowerPC; VxSim

