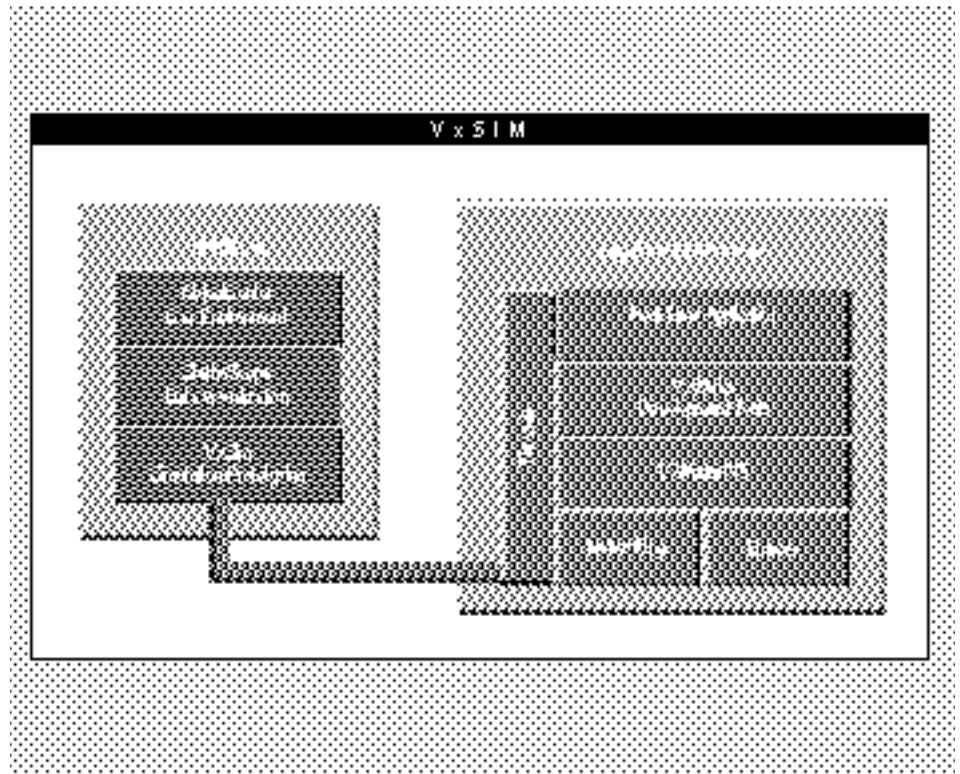


VxSim* Prototyping and Simulation Tool



- Ideal For Embedded Applications With Custom Hardware
- Eliminates Need to Purchase Additional or Evaluation Target Hardware
- Enables Application Development to Begin Before Hardware Availability
- Allows Testing to Begin Early in Development Cycle
- Provides Full VxWorks Simulation on a UNIX Workstation
- Accurately Reproduces Many VxWorks Features
- Fully Implemented VxWorks' Scheduler
- Simulates VxWorks Backplane Driver For Interprocessor Communication
- Preserves the VxWorks Shell



Part of Wind River's WindPower* tool suite, VxSim* is a comprehensive prototyping and simulation tool for VxWorks* applications. It is intended to assist developers of high-performance embedded systems using custom hardware. VxSim provides full VxWorks simulation on a UNIX workstation. It enables application development to begin before hardware becomes available, and allows a large portion of software testing to occur early in the development cycle — prior to integration testing.

Development organizations that stand to benefit most from VxSim include those waiting for target hardware, those with limited hardware budgets, and those creating application modules that do not require direct hardware access.

VxSim accurately reproduces many of the sophisticated features of VxWorks, including the DOS file system, full UNIX-style networking (TCP/IP, rlogin, etc.) and support for up to 16 targets sharing a common backplane — plus simulation of the VxWorks Backplane Driver for interprocessor communication.

The VxWorks scheduler is fully imple-

mented in the simulator, maintaining true multitasking activity with respect to priorities and preemption. The simulation environment preserves the VxWorks shell, which serves as the primary window into a VxSim environment

The GNU Toolset that comes with VxSim contains GCC version currently shipping for SPARC, full source code, complete GNU documentation, and the current release of the VxGDB debugger. Because VxSim runs entirely in a UNIX process, this debugger is the native version of GDB. It presents the user with a system-level view of the application. For developing on HP 9000/700 series workstations with HP-UX 9.0.x, VxSim uses the HP ANSI C compiler and HP source debugger (XDB).134

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

PROCESSORS SUPPORTED:
i960® Processor Family

AVAILABILITY:
Now

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