

- A proprietary & customizable real-time operating system (RTOS).
- Designed for distributed computing on most CPU with embedded systems
- Used with a spectrum of hardware, including communications & network devices, testing & measuring devices, computer peripherals, automotive systems & consumer products.



- Released in 1985
- Created & sold by Wind River Systems at Alameda, CA (USA)

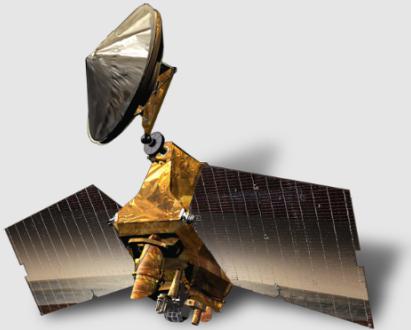
Compatible with:

- Microprocessor without Interlocked Pipeline Stages (MIPS)
- Power PC
- Intel i960
- Scalable Processor Architecture (SPARC)
- SH-4
- x86 family
- Advanced RISC Machine (ARM)
- Strong ARM
- xScale

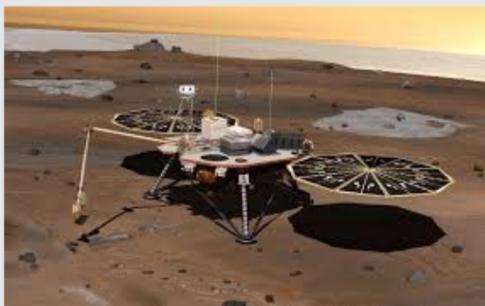
Features :

- Isolated user-mode applications
- Real-time processes
- Memory protection
- Efficient interprocessing , such as Transparent Inter- Process Communication
- Error handling
- Support for symmetric multiprocessing (SMP) & asymmetric multiprocessing (ASMP)
- Binary, counting & mutual exclusion semaphores with priority inheritance
- Multitasking kernel with preemptive round-robin scheduling & fast interrupt response
- POSIX PSE52-certified compatibility with user-mode execution environment
- Distributed & local message queues
- VxSim simulators
- File systems ; Network File System (NFS), High Reliability File System (HRFS), Disk Operating System Filing System (DOSFS)
- Internet protocol version 6(IPv6) Networking stack

uses in Spacecraft industry:



• Mars Renaissance Orbiter



• Phoenix Mars Lander



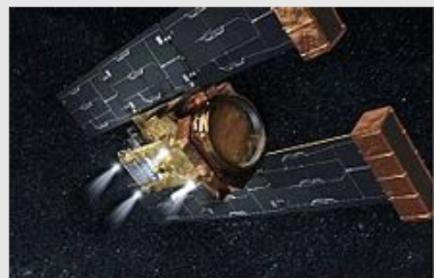
• Deep Impact Space Probe



• Sojourner Mars Pathfinder Rover



• Spirit & Opportunity Mars Exploration Rovers



• Stardust



• Deep Space Program Science Experiment / Clementine