

Introduction

- Developer : Wind River (a wholly owned subsidiary of TPG Capital)
- OS family : Real-time operating System
- Initial release : 1987 : 35 years ago
- Latest release : VxWorks 7 SR0660 / December 2 2020
- Marketing target : Embedded system
- Platforms : x86 , x86 - x64 , MIPS , PowerPC , SH4 , ARM , RISC-V
- Kernel type : Monolithic
- License : Proprietary
- Official website : windriver.com/products/vxworks

Features

- Multitasking kernel
- 64-bit OS
- User mode application
- SMP , AMP , mixed mode multiprocessing support
- Error handling framework

Hardware Support

- Intel x86 family
- MIPS
- Power PC
- Freescale ColdFire
- Intel i960
- SPARC
- Fujitsu FR-V

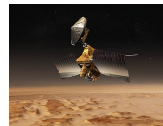
Notable Uses



- The Mars Science Laboratory Curiosity Rover



- The Clementine Spacecraft



- The Mars Reconnaissance Orbiter



- Agusta Westland Project Zero

Aerospace and
Defence Aircraft

- Automotive
- Consumer electronics
- Industrial market
(robots, test & measurement, transportation, controllers)
- medical

vulnerability

- remote code execution
- denial of services
- information leaks
- logical flaws (2 billion devices effected)