SRI MINIX 3 Platform

Compact, Robust and Scalable OS

SRI’s MINIX 3 micro kernel platform provides a flexible, high assurance environment for fault-tolerant real-time operating system (OS) development.

Incorporating the open-source MINIX 3 micro kernel based operating system, SRI has developed a complete system for creating, installing, and managing simple or complex application architectures that require a highly reliable and available operating environment.

Backed by a fully qualified and experienced U.S.-based engineering staff, SRI also offers support for both existing and new architectural applications.

What Types of Applications Does It Support?

With SRI MINIX 3, users can quickly and confidently install and configure instances of the platform to address many different needs:

- Multi-node system-of-systems simulations having disparate functions
- Multi-station hardware-in-the-loop (HWIL) test and evaluation
- Full operational hardware/software systems
- Scalable application architectures on bare metal, Type-1 and Type-2 hypervisors and virtual machines

Why MINIX 3?

MINIX 3 is a small, highly reliable, and functional Unix-like operating system designed to be fault-tolerant by detecting and repairing its own faults on the fly, without user intervention. Using a micro kernel design under 10k lines of code, a MINIX 3 installation can provide tailored realtime and soft-realtime embedded and facility control possibilities. With interfaces and libraries based on POSIX and NetBSD, existing Unix and Linux applications can be easily ported to the MINIX 3 environment.
The SRI MINIX 3 Platform

- Base MINIX 3 operating system plus pre-configured X-Windows
- MINIX 3 package repository
- All pre-configured to work on bare-metal workstations or on popular virtual machine hypervisors
  - QEMU-KVM (for Linux hosts)
  - Oracle VirtualBox (For Linux, Windows, and Mac OS X hosts)
  - VMWare (For Linux, Windows, and Mac OS X hosts)
- Installation and management system for configuring, installing, and updating MINIX 3 instances and networks
- Can be used in a totally standalone fashion. Suitable for use in environments that must be isolated.

Contact Us
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