



PRODUCT DESCRIPTION · SPARC VIRTUALIZATION

vtSparc-4M

Virtual SPARCstation Emulation Software

Many manufacturers and industrial facilities still rely on software running on Sun SPARCstation computers that are decades old, hard to maintain, and nearly impossible to find parts for. vtSparc-4M creates a virtual replica of the original hardware so that software **runs exactly as it always has on a modern computer, a virtual machine, or the cloud.**

KEY BENEFIT

Retire aging SPARCstation hardware without touching the software that runs on it, saving significant time, cost, and risk.

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SPARCstation

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SPARCstation

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SPARCstation

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SPARCstation

Specifications

Supported models	SPARCstation 4, 5, 10, 20
Guest OS	Solaris 4 and all later versions
Virtual CPUs	1 to 4 virtual SPARC processors
Virtual memory	Up to 512 MB
Host environment	x86 PC, virtual machine, or cloud; no pre-installed OS required
Storage options	Fibre Channel, SCSI, iSCSI, SATA, SAS, NAS, SAN, NFS
Networking	Emulated LANCE Ethernet; VLAN support; multiple virtual machines can share one network connection
Serial ports	2 virtual COM ports, mapped to a physical device, a terminal emulator (Telnet/SSH), or a host-console pseudo-terminal
Optical media	Physical CD/DVD drives and ISO image files

Storage and Networking

Modern storage, familiar interface

vtSparc-4M separates what the old software sees from what actually happens behind the scenes. The software still thinks it is talking to the same disk drives and network adapters, including LANCE Ethernet and ESP SCSI adapters, while vtSparc-4M connects those virtual devices to modern infrastructure the SPARCstation could never support, such as NAS, SAN environments, and high-speed SAS or SATA drives.

HOW EMULATION WORKS

Your SPARC software

Unchanged. No software migration required, and no way to tell it isn't on the original machine.



vtSparc-4M

Translates between old software and new hardware, presenting every component the software expects:

Disk controllers Network adapters
Memory Processors



Modern host

x86 PC, virtual machine, or cloud

MIGRATION

- 1 Transfer binary image copies of the original SPARC disks to the new host.
- 2 Power on the virtual machine and resume normal operations.

Flexible disk options

- **Logical disks** are files on the host's storage, easy to manage and back up, with multiple virtual SPARC disks on a single physical drive.
- **Physical disks** assign a real, dedicated drive to the virtual machine, which some applications prefer for performance or compatibility.



Installation & Host Environment

vtSparc-4M installs directly on the host without a pre-installed operating system like Windows or Linux. This bare metal installation keeps the environment simpler and more secure, and eliminates the cost of maintaining an additional operating system.

Everything needed to run and manage virtual SPARC systems is included, on a standard x86 server, inside a virtual machine, or on a cloud platform.

System Management

The included **vtMonitor** tool manages the virtual SPARC environment from any location with network access to the host. Start and stop virtual machines, adjust configurations, and monitor the health of both the virtual systems and the host hardware, all from a single, easy-to-use interface.

License Protection

Each installation is protected by a compact USB Smart Card, a physical key only 3 mm high that plugs into the host and activates the software. Its low profile makes it unlikely to be knocked loose during normal operation.

The licensing system manages multiple vtSparc-4M instances on one host or across a company network, making it straightforward to build a disaster-tolerant setup where a second system takes over if the primary host fails.



Security

Designed for industrial and enterprise environments, with a security environment the system manager configures to match your policies:

- Role-based access control with configurable permission levels, so users access only what they need
- Secure communication protocols for all remote management traffic
- Encrypted execution environment in cloud deployments
- Configurable event logging and alerts to track activity and flag issues

Products and Services

Product or service	Description
Base License	Licenses one virtual SPARC instance on a single host system, including one virtual CPU
Additional CPU License	Adds one virtual SPARC processor per license; up to 3 additional CPUs per instance
Annual Software Support	Access to the vtSparc support team and the right to download and install updated versions throughout the support term
Disaster Recovery License	720 hours of vtSparc-4M runtime, used in 10-minute blocks, for continued operation during a host hardware failure

Ready to retire your SPARCstation hardware?

Talk with Salem Automation about moving your SPARC software to vtSparc-4M, with no changes and no software migration.

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