

PRODUCT DESCRIPTION · SPARC VIRTUALIZATION

# vtSparc-4U

## Virtual UltraSPARC Emulation Software

Many manufacturers and industrial facilities still rely on software running on Sun SPARC computers that are decades old, hard to maintain, and nearly impossible to find parts for. vtSparc-4U (UltraSPARC) 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 Sun Ultra hardware without touching the software that runs on it, saving significant time, cost, and risk.

**5**

Ultra

**10**

Ultra

**450**

Ultra

## Specifications

|                         |                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supported models</b> | Ultra 5, 10, 450                                                                                                                                                                                |
| <b>Guest OS</b>         | Solaris 2.5.1 and newer                                                                                                                                                                         |
| <b>Virtual CPUs</b>     | 1 to 24 virtual SPARC processors                                                                                                                                                                |
| <b>Virtual memory</b>   | Up to 128 MB                                                                                                                                                                                    |
| <b>Host environment</b> | x86 PC, virtual machine, or cloud; no pre-installed OS required                                                                                                                                 |
| <b>Storage options</b>  | Fibre Channel, SCSI, iSCSI, SATA, SAS, NAS, SAN, NFS                                                                                                                                            |
| <b>Networking</b>       | Emulated SUNHME Ethernet; VLAN support; multiple virtual machines can share one network connection                                                                                              |
| <b>Serial ports</b>     | 2 virtual COM ports, mapped to a physical device, a terminal emulator (Telnet/SSH), or a host-console pseudo-terminal; SE Serial Lines adapter adds 8 lines (up to 2 adapters on the Ultra 450) |
| <b>Optical media</b>    | Physical CD/DVD drives and ISO image files                                                                                                                                                      |

## Storage and Networking

### Modern storage, familiar interface

vtSparc-4U separates what the old software sees from what happens behind the scenes. The software still thinks it is talking to the same disk drives and network adapters, including SUNHME Ethernet and LSI SCSI adapters, while vtSparc-4U connects them to modern storage and networking. Host-based storage can be any device type listed above.

### 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.

### HOW EMULATION WORKS

#### Your SPARC software

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



#### vtSparc-4U

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.



## Installation & Host Environment

vtSparc-4U 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-4U 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                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Base License</b>              | Licenses one virtual SPARC instance on a single host system, including one virtual CPU                                |
| <b>Additional CPU License</b>    | Adds one virtual SPARC processor per license; up to 3 additional CPUs per instance, or 23 on the Ultra 450            |
| <b>Annual Software Support</b>   | Access to the vtSparc support team and the right to download and install updated versions throughout the support term |
| <b>Disaster Recovery License</b> | 720 hours of vtSparc-4U runtime, used in 10-minute blocks, for continued operation during a host hardware failure     |

## Ready to retire your Sun Ultra hardware?

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

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