Advanced Virtualization Technologies

vtSparc-4M (SparcStation) Product Description

vtSparc allows the owners of Sparc computer systems to move their entire Sparc software installation to a more modern environment (X86 computer, Virtual Machine or Cloud) without changes.

No software migration is required, saving enormous amounts of effort, time and money.

vtSparc-4M (SparcStation) is developed to replace one of the following Sparc computer systems:

- *SparcStation 4*
- *SparcStation 5*
- *SparcStation 10*
- *SparcStation 20*

How does it work?

Since Sparc-based applications won't run on modern computers, vtSparc creates the Sparc hardware interfaces that the original operating system and user programs expect to find. This way your Sparc software can continue to run without making changes to it**.**

vtSparc translates in real-time between the old and the new world.

It facilitates use of modern storage, backup and IT infrastructures that were never supported by the old Sparc computers. Simply specify the configuration of the Sparc computer being replaced and vtSparc will build a virtual equivalent of that old hardware to run your existing applications on.

After creating a virtual Sparc, binary image copies of the original Sparc disks are transferred to the virtual Sparc host. After that you can boot from these copied disks and resume the operation as usual, without changes to the Sparc software itself.

CPU and Memory

vtSparc-4M supports:

- 1 – 4 virtual Sparc CPUs
- Up to 512 MB virtual Sparc memory

Supported Sparc Operating Systems

vtSparc-4M supports Solaris 4 and newer as guest operating systems.

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Storage Subsystem

vtSparc presents Solaris/Sun OS all the hardware interfaces it expects (e.g., LANCE Ethernet and ESP SCSI adapter) and the storage devices it is used to work with.

The vtSparc host system can use more modern storage elements, like SAS, SATA, modern SAN or other network-based storage, like iSCSI and NFS.

This is all transparent for the Sparc software, which still 'sees' the old device types. vtSparc seamlessly connects the old Sparc world to the modern storage equipment.

Supported Storage Devices:

- Physical and logical disks
- CD-ROM (logical and physical)

All original Sparc disk types and sizes are supported by vtSparc.

Logical Disks

To the virtual Sparc these appear as regular disks, attached to one of the virtual storage adapters configured in the virtual Sparc. On the host system these will be files in directories on the host attached storage.

This allows combining multiple virtual Sparc disks on a single host disk.

Physical Disks

Direct access to physical disks is supported, by assigning a physical disk or partition to a virtual disk in vtSparc. Or by connecting a physical disk drive to a virtual Sparc disk.

Physical and Logical CD-ROM

Physical DVD/CD-ROMs as Virtual DVD/CD-ROMs (ISO images) are supported, which can be connected as CD-ROM to vtSparc.

Network Subsystem

vtSparc offers support for LANCE Ethernet adapters:

Virtual network switch support enables sharing single host Ethernet links with multiple virtual Sparcs.

Virtual LAN (VLAN) infrastructure is supported.

The actual speed of the vtSparc supported network connections may be better than what the original Sparc Ethernet adapters could deliver, given the higher capacity of the modern network adapters in the host.

Serial Lines

vtSparc includes support for the two COM ports that are available on every Sparc system. These virtual devices can be mapped to:

- A physical device connected to the host
- Any terminal emulator via telnet or ssh
- Pseudo terminal on the host's console

License Protection

vtSparc is a software product available under End-User License. The licenses are stored on a Smart Card device with USB connector for maximum compatibility/flexibility. This license key is only 3 mm high, limiting the risk of damage or accidental removal when in use.

The License Protection Mechanism can control multiple instances of vtSparc inside one host computer or in a company network, providing maximum flexibility and fail-over capabilities allowing a low-cost disaster-tolerant installation.

System Management

The product includes the vtMonitor management tool that helps manage and control the virtual Sparc environment from any location that has network access to the vtSparc host.

It is an easy to use and intuitive user interface that facilitates the management of the virtual Sparc systems as well as the host environment they run on.

Secure Environment

vtSparc creates a secure environment that can be configured by the system manager to meet the security needs of your company.

Security highlights:

- Access roles and configurable security levels
- Secure communication protocols
- Encrypted environment in the Cloud
- Event logging and alerts (configurable)

Host Computer Environment.

vtSparc installs directly on the host (X86 hardware, Virtual Machine or Cloud) without the need for a pre-installed operating system like Windows or Linux.

This not only assures the security and availability of your virtual Sparc installation, it also saves you the cost and effort to purchase and maintain such additional operating systems.

Everything that is required to run your virtual Sparcs and control the host environment is included in the vtSparc product. It is often referred to as Bare Metal installation.

Host recommendations: www.avtware.com/vtSparc-x86.

Storage

For host based storage you can select any type of device: FibreChannel, SCSI, iSCSI, SATA, SAS, NAS, SAN or NFS.

vtSparc translates between the storage that the Sparc software expects and what the host has to offer.

Orderable Items

Base License to run one virtual Sparc system. This base license includes one virtual Sparc CPU

Additional CPU license for one additional virtual Sparc CPU. Maximum 3 extra CPU supported.

Annual Software Support Service providing free access to the vtSparc support group as well as the right to obtain and install newer product versions during the term of the support agreement.

Disaster Recovery License, offers 720 hours of vtSparc-4M usage that can be consumed in 10 minute intervals to survive a host hardware break-down.

Product Origin

vtSparc is developed, maintained and owned by Advanced Virtualization Technologies, The Netherlands (www.avtware.com).

AVT
Advanced Virtualization Technologies