



CHARON-VAX creates a virtual VAX environment on a standard Windows or Linux based host system. Stromasys customers can quickly, easily, and safely phase out aging and increasingly expensive DEC hardware, and replace it with an enterprise-grade virtual VAX environment on an industry-standard x86 platform.

No risky migration projects are required, and no changes to the original software (operating system, layered products, or applications) procedures, or handling have to be applied. Your end users would not even notice that the hardware platform had been replaced!

For almost every VAX that was ever manufactured, Stromasys offers a CHARON-VAX equivalent.

HP recognizes CHARON-VAX as a valid VAX replacement platform to run OpenVMS. No application source code recompile or conversion is required, no matter which VAX hardware platform your software was running on.

### THE BENEFITS OF VIRTUALIZATION: WHY VIRTUALIZATION IS YOUR BEST OPTION

#### • BUSINESS CONTINUITY

- Minimal disruption during migration to new hardware platforms, as all applications, middleware, and data remain unchanged.
- Disaster recovery facilities use industry standard hardware platforms and require a lower investment than providing duplicate classic hardware.
- Modern hardware improves reliability and availability using redundant hardware and data replication technologies not available previously in classic hardware.

#### • REDUCE RISK

- Downtime is not an option for your mission-critical systems. By removing the classic hardware from the equation, Charon solutions diminish your risk of unplanned downtime.
- Extend the life cycle of your critical applications. Classic hardware may be end-of-life, but the applications running on that hardware are not. With Stromasys, those applications will continue to run, unchanged, on a modern platform – thus ensuring business continuity.

#### • LOWER COSTS

- Not only are Stromasys solutions lower in cost than full migration, but they are often less than the cost of a single year's support of the classic hardware.
- You will also get a substantial reduction in power usage, decreasing the utility bill, not to mention your company's environmental impact!

#### • IMPROVE PERFORMANCE

- Stromasys solutions run on modern architecture, bringing your applications into the 21st century. Customers marvel at the dramatic speed improvements when running commands on Charon compared to the original hardware – accomplishing tasks in a fraction of the time!

#### • DATA CENTER CONSOLIDATION

- With Stromasys classic systems virtualization solutions under VMware, customers can finally enjoy enterprise consolidation and integration using a common virtual data center infrastructure.
- Replacing classic systems hardware with industry standard server infrastructure simplifies data center management and operations with the same set of management tools used for modern server platforms.
- Customers save a great deal of time and effort with regard to backup and archive tasks, using the latest network and removable media and automated tools.

### *Choose Business Continuity with Stromasys*

If your business is running classic systems, let us help you virtualize. Our team of experts can provide solutions that will allow you to maintain those systems without the risks associated with the classic hardware.



## CHARON-VAX COVERS THE FOLLOWING VAX MODELS:

Emulated hardware model	Virtualized VAX CPU	Maximum memory	Earliest VMS version
MicroVAX II systems	1	16 MB	4.5
VAX3600, VAX3900	1	128 MB	4.5
VAX4000-106, VAX3100-96, VAXstation4000-90	1	128 MB	5.5-2*
VAX3100-98, VAX4000-108	1	256 to 512 MB	5.5-2*
VAX3600/3900	1	256 to 512 MB	4.5
VAX4700/4705, VAX6310	1	256 to 512 MB	5.5-2
VAX6000-610	1	1 GB	5.5-2
VAX6000-620	2	2 GB	5.5-2
VAX6000-630	3	2 to 3 GB	5.5-2
VAX6000-660	4, 5 or 6	2 to 3 GB	5.5-2

\*: 5.5-2H4 if second SCSI adapter is used

**IF YOUR PRODUCT IS NOT LISTED IN THE ABOVE, WE STILL OFFER A SOLUTION. CONTACT US!**

## CHARON-VAX – STANDARD HOST REQUIREMENTS

CHARON-VAX requires a host server with CPU > 3Ghz, from 2 to 12 cores, depending on hardware emulated. The server can either be a physical server or a VMware virtual machine running Windows or Linux operating system. See Software Product Descriptions for details.

## CHARON-VAX OFFERS THE FOLLOWING VIRTUALIZED HARDWARE:

The various models of the CHARON-VAX family support the appropriate hardware for their architecture. For instance, VAX 3600, MicroVAX II, and similar systems support virtualized Q-Bus and Unibus devices. Other systems, such as the virtualized VAX 6000 series, support XMI and BI devices. Memory can be specified to the architectural limits of the virtualized systems.

## STORAGE SUBSYSTEMS

CHARON-VAX supports both virtualized storage as well as physical storage. Physical storage is associated with local SCSI devices allocated to CHARON-VAX. Virtual storage (container files) can reside on any storage subsystem presented to the host system. This can be either SCSI, SATA, IDE, or any other local storage (including USB). Additionally any network attached storage can be utilized that is supported by the host, including iSCSI, SAN, NAS, Samba/CIFS, and NFS. **CHARON-VAX also supports OpenVMS clustering.**

## INPUT/OUTPUT SUBSYSTEMS

CHARON-VAX provides a variety of networking and character terminal oriented interfaces. CHARON-VAX virtualizes the Ethernet controllers present in the original VAX hardware. Any protocol that ran on these controllers (DECnet, TCP/IP, LAT) will run over virtualized link.

## LICENSE TRANSFER OPTIONS

### HP OpenVMS License Transfer

Keep your OpenVMS operating system supported with a transfer license from HP. These licenses allow the transfer of OpenVMS operating system and layered product licenses to servers running the CHARON-VAX environment, providing a continuation of the existing HP software warranty agreements. HP Services supports HP OpenVMS software on Charon products running on HP systems only.

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