

# DIGITAL ALPHA Server and Workstation CLASSIC SYSTEM VIRTUALIZATION



CHARON-AXP creates a virtual Alpha 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 Alpha 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), its procedures, or handling have to be applied. Your end users would not even notice that the hardware platform had been replaced!

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

HP recognizes CHARON-AXP as a valid Alpha replacement platform to run OpenVMS or Tru64. No application source code recompile or conversion is required, no matter which Alpha 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 aging hardware.



## CHARON-AXP OFFERS THE FOLLOWING VIRTUALIZED HARDWARE:

Emulated hardware model	Virtualized CPUs	Maximum memory	Earliest VMS version
AlphaStation 200, 250	1	up to 4 GB	
DEC3000 model 400	1	up to 1 GB	
AlphaServer 2000, 4000	2	up to 8 GB	
AlphaServer 300, 400DMCC, Flexor OEM systems, AlphaStation 500, 600, DPW, XP900, XP1000, AlphaServer 300, 400, 800	1	up to 8 GB	OpenVMS 6.2-1H3 to OpenVMS 8.4 <sup>1</sup>
AlphaServer 1000/1000A	1	up to 1 GB	&
AlphaServer 1200	1 or 2	up to 32GB	Digital UNIX 3.2 to 4.0E <sup>2</sup> , Tru64 UNIX 4.0F to 5.1B <sup>3</sup>
AlphaServer 2000	1 or 2	up to 2 GB	
AlphaServer 2100	1 to 4	up to 8 GB	
AlphaServer 4000	1 or 2	up to 32 GB	
AlphaServer 4100	1 to 4	up to 32 GB	
AlphaServer DS10, DS15	1	up to 32 GB	
AlphaServer DS20, DS25	1 or 2	up to 32 GB	OpenVMS 7.1-2 to OpenVMS 8.4 & Tru64 UNIX 4.0F to 5.1B
AlphaServer ES40, ES45, ES47	1 to 4	up to 32 GB	
AlphaServer GS80 <sup>4</sup> , GS60, ES80	4 to 8	up to 64 GB	
AlphaServer GS140, GS160	8 to 16	up to 128 GB	OpenVMS 7.2-1H1 to OpenVMS 8.4 & Tru64 UNIX 4.0G to 5.1B
AlphaServer GS320, GS1280	16 to 32	up to 256 GB	

<sup>1</sup> For DEC3000 the earliest VMS version is 6.1, for multiple AXP CPU configurations, minimum is OpenVMS 7.1-2

<sup>2</sup> For DEC3000 the earliest Tru64 version is 3.2

<sup>3</sup> For multiple AXP CPU configurations, minimum is Tru64 UNIX 4.0F

<sup>4</sup> AlphaServers 8200 and 8400 emulation is replaced by GS80

### **THIS LIST IS NOT EXHAUSTIVE. WE OFFER AN AXP SOLUTION FOR ALL ALPHA SERVERS. CONTACT US!**

The various models of the CHARON-AXP family support the appropriate hardware for their architecture – CPUs and RAM, SCSI and FC controllers, DEC network adapter, etc.

## STORAGE SUBSYSTEMS

CHARON-AXP supports both virtualized storage and physical storage. Physical storage is associated with local SCSI devices allocated to CHARON-AXP. 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. Additionally any network attached storage can be utilized that is supported by the host, including iSCSI, SAN, NAS, Samba/CIFS and NFS. Enterprise class CHARON-AXP products support direct connection to SAN with Emulex FC adapters. **CHARON-AXP also supports VMS and Tru64 clustering.**

## LICENSE TRANSFER OPTIONS

### **HP OpenVMS and Tru64 License Transfer**

Keep your OpenVMS or Tru64 UNIX operating system supported with a transfer license from HP. These licenses allow the transfer of OpenVMS and Tru64 UNIX operating systems and layered product licenses to servers running CHARON-AXP environment, providing a continuation of the existing HP software warranty agreements. HP Services supports HP OpenVMS software and Tru64 software on Charon products running on HP systems only.

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