CHARON™ - AXP/4000 for Windows

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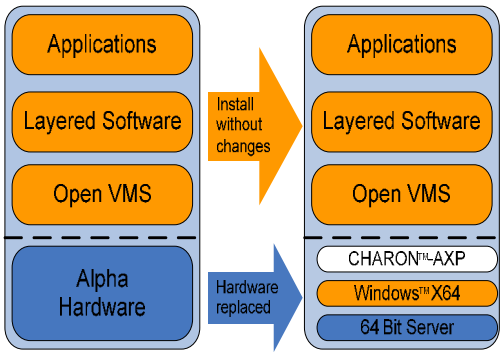
Functionality

CHARON-AXP/4000 for Windows can be used to replace aging Alpha hardware. Your unmodified application code and the Alpha operating system still 'sees' the Alpha CPU, memory and peripherals recreated in real-time by the HAL software layer.

CHARON-AXP/4000 for Windows can in principle execute any Alpha operating system or binary application that runs on the equivalent hardware Alpha configuration. The version 1.0 is tested with OpenVMS, only. For efficiency reasons, the HAL software functionality does not include diagnostic or maintenance modes or delays to simulate mechanical device behavior.

For a list of emulated components please see the Features Matrix.



CHARON-AXP/4000 for Windows is an Alpha hardware abstraction layer (HAL) designed for the complete replacement of Alpha system hardware. When executed on a fast dual CPU Windows XP or 2003 X64 server, CHARON-AXP/4000 for Windows provides the functional equivalent of an AlphaServer 4000/466 computer system hardware. CHARON-AXP/4000 for Windows is designed to allow the substitution of the AlphaServer 800, AlphaServer 1000, AlphaServer 1200, AlphaServer 2000, AlphaServer 2100 or AlphaServer 4000 systems with industry-standard Windows servers. This substitution does not require any changes to either the Alpha Operating System nor the layered software utilities or the binary application code.

Features

- Provides the performance of an AlphaServer 4000/466 system, or of systems of an equivalent performance, when executed on a 3 GHz dual CPU AMD Opteron or equivalent system.
- Does not require Alpha application code conversion nor application sources.
- OpenVMS/Alpha, layered software and applications can be directly installed on CHARON-AXP/4000 for Windows and do not require any modifications. The application binaries, user interface and functionality remain unchanged.
- OpenVMS/Alpha layered products and applications require the same licensing as an equivalent Alpha computer.
- The software installation follows the same steps as on Alpha hardware; the host system's CD/DVD drive acting as a direct replacement for the Alpha input device.
- CHARON-AXP/4000 for Windows operates as a Windows service, using the Windows event log and/or its own detailed logging mechanism.
- CHARON-AXP/4000 for Windows provides up to 8 GB of Alpha memory and practically unlimited Alpha disks, represented as physical disks or as disk images (i.e. files in the host system) that are easy to backup.
- CHARON-AXP/4000 for Windows provides two Ethernet adapters for 10 or 100 Mbps network connections to other systems, terminal servers and X-terminal (emulators), providing support for Ethernet and all higher level protocols.
- Upgrading to a faster host system provides an immediate performance increase of CHARON-AXP/4000 for Windows up to a hardware AlphaServer 4000/466 system's performance.
- OpenVMS/Alpha running on CHARON-AXP/4000 for Windows can be configured as a LAN cluster with other CHARON-AXP products, CHARON-VAX products, and hardware Alpha or VAX systems.
- Choice between one year extendable or perpetual usage licenses.
- Two levels of optional software support service are available.

Salem Automation Incorporated
Systems Integration Specialist

Host system requirements

A dedicated 64-bit Windows 2003 or XP AMD Server system with a dual CPU of at least 2 GHz, 2 GB main memory, a CD-ROM, minimum one (1) dedicated Ethernet adapter, a USB port for the license key and enough storage space for the Alpha disks.

Recommended tools

A commercially available X-terminal emulator, in case graphical feature is needed.

Product contents

- Distribution CD, containing the product executables and the documentation.
- License key.

License key

The CHARON hardware license key is permanently connected to the host system running the emulator. It preserves the customer specific license parameters, allows remote electronic updates and enables rapid change of host systems as the CHARON executable itself can be installed on multiple systems.

The MTBF of the key is more than 100 years. For mission critical applications a backup key containing 720 hours execution time can be ordered to meet any disaster recovery plan that requires replacement hardware.

Warranty

The three months standard warranty for this product is the readability of the distribution media.

Software Resources International

Typical applications

- Replacing up to 1300 MHz Alpha systems running OpenVMS.
- Replacing aging Alpha systems by industry standard servers to reduce maintenance, space and operating costs.

Features Matrix

AlphaServer 4000/466
Emulated Alpha CPU: 21164/500 (EV5)
Earliest VMS version supported: 6.2
Alpha memory emulated: 512 MB, 1 GB, 2 GB or 8 GB
SCSI Subsystem: Yes
Emulated Alpha disks: SCSI Alpha disks. Physical disks or disk images.
Emulated Alpha tapes: SCSI Alpha tapes. Tapes can only be used for data exchange. Booting from tape is not possible.
Ethernet: Up to two (2) DE500 controllers. Nominal connection speed on the emulated Alpha level is 10 or 100 Mbps (*).
OpenVMS/Alpha clustering: NI Clusters or Shared Disk Clustering with simulated MSCP disk controllers.
Asynchronous serial line emulation: Yes. (**)
Host memory requirement: 2 GB

(*) The effective aggregate throughput depends on the host system's performance.
(**) Using selected serial line multiplexers on the PCI bus.

Ordering information
CHARON-AXP/4000 for Windows

- Unlimited run time license
- Initial (one year) license
- License extension for one year
- Back-up key
- GOLD Support
- PLATINUM Support

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