



CHARON™ - AXP/1000 for Windows



SALEM AUTOMATION INCORPORATED

4500 Indiana Ave Suite 40
Winston-Salem, NC 27106

Phone: 336-661-0890

Fax: 336-661-9575

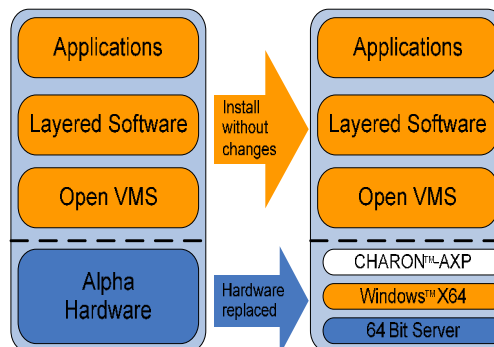
charon_sales@salemautomation.com

Functionality

CHARON-AXP/1000 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/1000 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/1000 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/1000 for Windows provides the functional equivalent of an AlphaServer 1000/266 computer system hardware. CHARON-AXP/1000 for Windows is designed to allow the substitution of

the AlphaServer 400 4/266 or AlphaServer 1000 4/266 or AlphaServer 2000 4/275 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 2000 4/275 system, or of systems of an equivalent performance, when executed on a 2.4 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/1000 for Windows and do not require any modifications. The application binaries, user interface and functionality remain unchanged.
- ◆ OpenVMS/Alpha, layered products and licensed applications running on CHARON-AXP 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/1000 for Windows operates as a Windows service.
- ◆ CHARON-AXP/1000 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/1000 for Windows provides an Ethernet adapter for a 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/1000 for Windows up to a hardware AlphaServer 2000 4/275 system's performance.
- ◆ OpenVMS/Alpha running on CHARON-AXP/1000 for Windows can be configured as a LAN cluster with other CHARON-AXP products, CHARON-VAX products, an hardware Alpha or VAX systems.
- ◆ Provides a choice between one year (extendable) or perpetual usage licenses.
- ◆ Two levels of optional software support service are available.



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.

Typical applications

- ◆ Replacing up to 275 MHz Alpha systems running OpenVMS.
- ◆ Replacing aging Alpha systems by industry standard servers to reduce maintenance, space and operating costs.

Features Matrix

AlphaServer 1000/266

Emulated Alpha CPU: 21064A/500 (EV45)

Earliest VMS version supported: 6.2

Alpha memory emulated: 512 MB, 1 GB, 2 GB, 4 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: One (1) DE500 controller. 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: 1 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/1000 for Windows

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

Contact:

Chuck Graham
Southeast - West
VP-Sales & Marketing
Salem Automation Inc.
4500 Indiana Ave. Suite 40
Winston-Salem, NC 27106
336-661-0890 x 106

Bob Gyles
Northeast Regional
Sales Manager
Boston, MA
978-425-2582

John Mercier
Western Regional
Sales Manager
Phoenix, AZ
480-633-5739

E-mail: charon_sales@salemautomation.com