



CHARON™-VAXstation for Windows

Charon Version 1.0.57

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Functionality

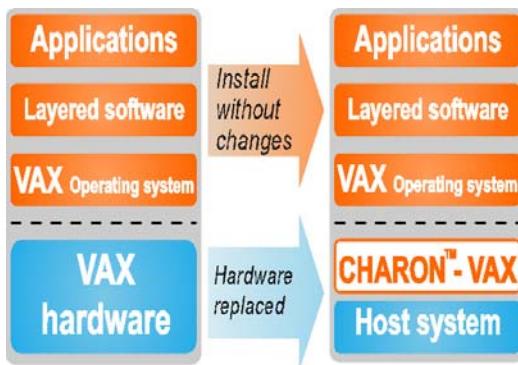
CHARON-VAXstation is designed to prolong the use of the VAX/VMS operating system, layered products and user applications running on a VAXstation. The hardware components emulated by CHARON-VAXstation are designed to operate like their hardware equivalents.

CHARON-VAXstation can in principle execute any VAX operating system or binary application that runs on its equivalent hardware VAX configuration. It is designed to replace single CPU VAXstations.

The emulated 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.

For replacing real time process control applications with Programmable Logic Controllers connected via serial lines, see CHARON-VAX/Industrial.

(*) VWS/UIS can be bought from Touch Technologies: www.ttinet.com



CHARON-VAXstation for Windows replaces VAXstation hardware with a software package on a Personal Computer. It creates a 'virtual VAXstation' corresponding to a VAXstation 3600 capable of running existing VAX operating system and binary VAXstation applications without any modifications.

CHARON-VAXstation for Windows comes in the form of pre-configured, ready-to-run VAXstation configurations. With full Ethernet support, it is suitable for standalone

VMS operation as well as sharing data in a corporate VMS architecture.

CHARON-VAXstation for Windows can run any VAX operating system that runs on its equivalent hardware VAX. The existing VAX/VMS software can be copied as a VMS backup image from a VAXstation disk to a standard Windows disk file via Ethernet. The Windows disk file becomes a 'virtual' VAX disk without further changes.

Features

- CHARON-VAXstation for Windows includes partial VCB02 functionality so that a VMS workstation license (type D) can be used.
- CHARON-VAXstation for Windows allows unmodified VAXstation applications to run on a PC. Even most VWS applications will run under VWS/UIS (*), the VWS Emulator of VMS.
- CHARON-VAXstation for Windows comes in the form of pre-configured, ready-to-run VAXstation configurations with 32, 64 or 128 MB RAM, two disks (images), one CD or DVD, and one Ethernet controller.
- The CHARON-VAXstation performance scales with the host CPU frequency.
- Application source code is not required. The existing operating system and applications can be transferred in binary form. No conversion or modification is needed.
- 'Virtual' VAX disks permit rapid backup, copying or archiving on a Windows network share, CD or DVD. They replace the much slower traditional VAX backup procedures.
- A 'ready-to-run' VAXeln system disk image is included in the product to facilitate easy emulator setup and transfer of VAX operating system and application software. It can be used to assist in setting up the Ethernet connection, starting a remote VAX/VMS standalone backup and transferring the system image.
- Using a terminal emulator eliminates the need for a separate VAX console terminal.
- VMS and layered product transfer licenses from an existing VAXstation to CHARON-VAXstation for Windows are available from HP.
- CHARON-VAXstation for Windows passes HP's AXE architecture test for VAX instruction compatibility.
- CHARON-VAXstation for Windows can be configured as a VMS NI-cluster member. It supports Ethernet, DECnet and TCP/IP communications.
- Users may choose either a one-year (extendable) or a perpetual license.
- Two levels of optional software support service are available.

Advanced CPU Emulation (ACE)

ACE dynamically optimizes the VAX instruction interpretation. This does not require code pre-processing and provides its full capability instantly. As the optimization takes place below the emulated hardware level, the emulator remains fully VAX hardware compatible and is completely transparent to VAX operating systems and applications.

Host system requirements

A dedicated 32-bit Windows XP SP2 host system with a dual CPU of at least 1.4 GHz, a CD-ROM, one (1) dedicated Ethernet adapter, a USB port for the license key and minimum 8 GB storage space for the VAX disks. The minimum host memory requirement depends on the VAX memory emulated and whether ACE is used. For a list of emulated components please see the Features Matrix.

Recommended tools

HP Pathworks 32:

- VT525 terminal emulator
- X-terminal emulator
- Windows file copy

Product contents

Distribution CD

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

Typical applications

- Replacing any VAXstation platform requiring up to 128 MB of VAX memory with a Windows host system while using unmodified VAXstation application software.
- Typical single-user applications, such as software development or (cross) compilations.

Features Matrix

	CHARON-VAXstation/32	CHARON-VAXstation/64	CHARON-VAXstation/128	CHARON-VAXstation/128 Plus
Emulated VAX CPU	VAXstation 3600 (KA650-B)	VAXstation 3600 (KA650-B)	VAXstation 3600 (KA650-B)	VAXstation 3600 (KA650-B)
Earliest VMS version supported	4.6	4.6	4.6	4.6
VAX memory emulated	32 MB	64 MB	128 MB	128 MB
Advanced CPU emulation (ACE)	No	No	No	Yes
MSCP Device Controller	Yes.	Yes.	Yes.	Yes.
SCSI Subsystem	n/a	n/a	n/a	n/a
VAX SCSI disks	n/a	n/a	n/a	n/a
VAX SCSI tapes	n/a	n/a	n/a	n/a
Ethernet	One (1) Ethernet adapter, max. Connection speed is 10 Mbps (*).	One (1) Ethernet adapter, max. Connection speed is 10 Mbps (*).	One (1) Ethernet adapter, max. Connection speed is 10 Mbps (*).	One (1) Ethernet adapter, max. Connection speed is 10 or 100 Mbps (*).
VAX/VMS clustering	NI Cluster	NI Cluster	NI Cluster	NI Cluster
Serial line emulation	n/a	n/a	n/a	n/a
Qbus subsystem	n/a	n/a	n/a	n/a
Host memory requirement	256 MB	256 MB	512 MB	1 GB

(*) The effective throughput depends on the host system's performance.

Ordering information

	CHARON-VAXstation/32	CHARON-VAXstation/64
Unlimited run time license	CHVX-003-PB-WI	CHVX-004-PC-WI
Initial (one year) license	CHVX-003-BB-WI	CHVX-004-BC-WI
License extension for one year	CHVX-003-EB-WI	CHVX-004-EC-WI
Back-up key	CHVX-003-KB-WI	CHVX-004-KC-WI
GOLD Support	CHVX-003-UB-WI	CHVX-004-UC-WI
PLATINUM Support (**)	CHVX-003-TB-WI	CHVX-004-TC-WI
	CHARON-VAXstation/128	CHARON-VAXstation/128 Plus
Unlimited run time license	CHVX-005-PD-WI	CHVX-205-PD-WI
Initial (one year) license	CHVX-005-BD-WI	CHVX-205-BD-WI
License extension for one year	CHVX-005-ED-WI	CHVX-205-ED-WI
Back-up key	CHVX-005-KD-WI	CHVX-205-KD-WI
GOLD Support	CHVX-005UD-WI	CHVX-205-UD-WI
PLATINUM Support (**)	CHVX-005-TD-WI	CHVX-205-TD-WI

(**) Subject to geographical availability.