



# CHARON™-VAX 6660+ for Windows

## CHARON Version 3.2

Software Concepts  
 International, LLC  
 402 Amherst Street  
 Suite 300  
 Nashua, NH 03063 USA  
 Tel: 603.879.9022  
 Fax: 603.879.9023  
 Web: www.sciinc.com  
 scitechinfo@sciinc.com

**Advanced CPU Emulation**  
 Advanced CPU Emulation (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 virtualized hardware level, the software remains fully VAX hardware compatible and is completely transparent to VAX operating systems and applications.

**HP Transfer Licenses**  
 Hewlett-Packard (HP) recognizes CHARON-VAX as a valid VAX replacement platform to run OpenVMS, and CHARON-VAX has passed the original VAX hardware qualification tests.

HP provides transfer licenses for the VAX/VMS operating system and layered products, so that customers can continue to use their HP software and support contracts without modification.



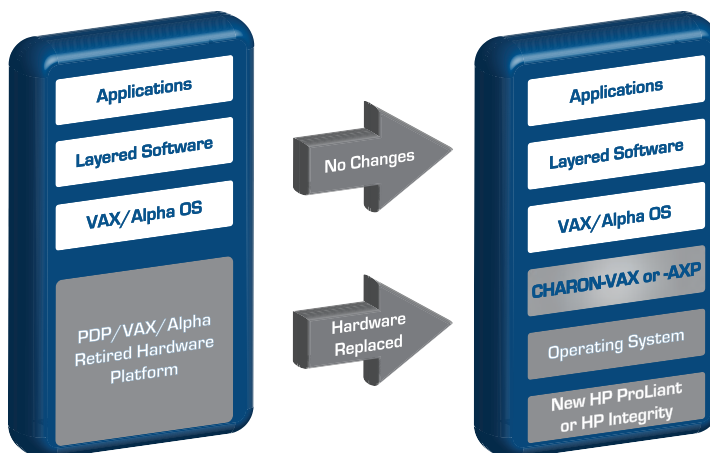
CHARON-VAX/6660+ for Windows is a third generation VAX system virtualization. By virtualizing a six-CPU VAX 6000-660 computer with Symmetrical Multiprocessing (SMP), CHARON-VAX/6660+ for Windows can replace a large VAX server with a modern Windows server running CHARON-VAX/6660+ as a Windows application.

CHARON-VAX/6660+ for Windows executes unmodified VAX/VMS, layered software, and user applications. No conversion of binary VAX code is required. CHARON-VAX/6660 Plus for Windows includes Stromasys' Advanced CPU Emulation feature (ACE).

The compatibility of the virtualization software with VAX hardware is tested with the original VAX hardware design tools and diagnostics.

### Features

- Provides virtualization of a VAX 6000-660 six-CPU computer with Symmetrical Multiprocessing.
- Does not require VAX application code conversion nor application sources. VMS, layered software, and applications can be directly installed on CHARON-VAX/6660+ for Windows and do not require any modifications. The application binaries, user interface, and functionality remain unchanged.
- The virtualized VAX follows the characteristics of the original VAX 6000-660 hardware, requires the corresponding level of VAX/VMS license units, and supports the peripherals particular to that VAX model. See the Features Matrix on the next page.
- Installs and runs the standard VAX/VMS and other standard VAX operating systems.
- CHARON-VAX/6660+ for Windows can operate as an unattended Windows service.
- VMS and layered product transfer licenses from an existing VAX system to CHARON-VAX/6660+ for Windows are available from HP.
- Passes HP's AXE architecture test for VAX instruction compatibility.
- CHARON-VAX/6660+ for Windows virtualizes up to 3 GB VAX memory (2GB on a 32 bit host system).
- The virtualized Ethernet adapter(s) supports 10 or 100 (\*) Mbps network connections to other systems, terminal servers and X-terminal (emulators). Virtualization is transparent to DECnet and/or TCP/IP network protocols.
- CHARON-VAX/6660+ for Windows can be configured as a VMS NI-cluster member or as a cluster member with shared disk clustering.
- Upgrading to a faster host system provides an immediate performance increase.
- Provides a choice between one year (extendable) or perpetual usage licenses.
- Two levels of optional software support service.



## Software Product Description CHVX-260-PG-WI

### Typical Applications

- Replacing any mid-range or large VAX platform requiring up to 3 GB of VAX memory with a Windows host system while using unmodified VAX application software.
- Improving VAX system performance for CPU or I/O intensive workloads while replacing the hardware with a Windows platform.
- Replacing departmental or corporate VAX computers with modern host systems to reduce maintenance, space, and operating costs.

### Features Matrix

	VAX 6660
Emulated VAX CPU	Six KA66-A CPUs with SMP
Earliest VMS version supported	5.5-2
Maximum VAX memory emulated	3 GB on 64-bit Windows host system 2 GB on 32-bit Windows host system
SCSI Subsystem	N/A
Emulated VAX disks	KDM70 XMI disks
Emulated VAX tapes	KDM70 XMI tapes Tapes can only be used for data exchange. Booting from tape is not possible.
Ethernet	Multiple emulated DEMNA Ethernet adapters up to the available maximum slots on the emulated XMI bus. Nominal connection speed on the emulated VAX level is 10 or 100 Mbps (effective throughput depends on host system performance).
VAX/VMS clustering	NI Clusters or Shared Disk Clustering with simulated MSCP disk controllers
Asynchronous serial line emulation	N/A All terminal connections are via Ethernet except the emulated VAX console.
Qbus subsystem	N/A
Host memory requirement	6 GB on 64-bit Windows host system; 4 GB on 32-bit Windows host system

### Ordering Information

Unlimited run time license  
One year license  
Back-up key  
GOLD Support  
PLATINUM Support (\*)

#### CHARON-VAX/6660+

##### for Windows

CHVX-260-PG-WI  
CHVX-260-BG-WI  
CHVX-260-KG-WI  
CHVX-260-UG-WI  
CHVX-260-TG-WI

### Host System Requirements

A dedicated 32- or 64-bit Windows 2003 Server Standard or Enterprise Edition or XP PRO host system with at least eight (8) physical CPU cores of at least 2 GHz, a CD-ROM, minimum one (1) dedicated Ethernet adapter, a USB port for the license key and enough storage space for the VAX disks. Minimum host memory requirements are reflected in 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 software. 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 (mean time between failures) 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.

### Software Concepts

International, LLC  
402 Amherst Street  
Suite 300  
Nashua, NH 03063 USA  
Tel: 603.879.9022  
Fax: 603.879.9023  
Web: [www.sciinc.com](http://www.sciinc.com)  
[scitechinfo@sciinc.com](mailto:scitechinfo@sciinc.com)

V 1.00  
09/08/09

(\*) Subject to geographical availability.