



# CHARON™-VAX 6610+ for OpenVMS Integrity

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**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 software products allow you to replace your existing VAX computer systems with a HP Integrity computer, without making changes to your software. CHARON-VAX provides a very quick, low-risk, and inexpensive method of replacing your VAX systems since HP retired them in 2001. CHARON-VAX solutions allow you to continue using your valuable applications without change, maintain your existing operating procedures, cut down on operational costs, and reduce energy consumption. At the same time, you gain a significant performance increase, which allows you to do more with the same VAX software.

CHARON-VAX/6610+ for OpenVMS Integrity is designed to prolong the use of the VAX 6000 and VAX 7000 operating system, layered products, and user applications. The hardware components emulated by CHARON-VAX are designed to operate like their hardware equivalents. CHARON-VAX replaces multi-CPU VAX machines in administrative environments with terminals connected via terminal servers.

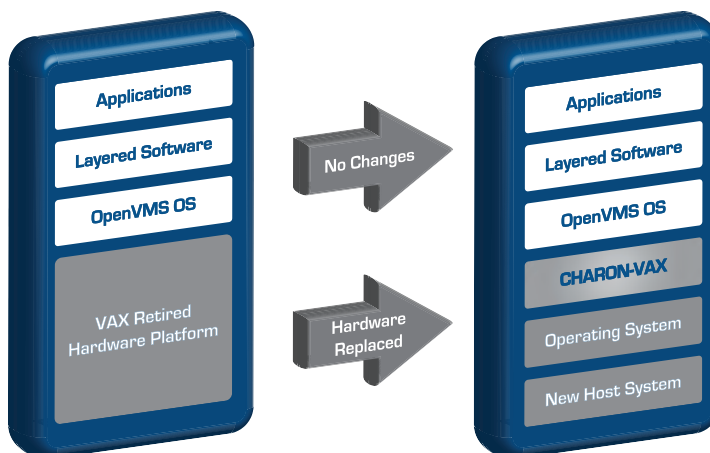
CHARON-VAX/6610+ for OpenVMS Integrity has passed the original hardware qualification tests and is recognized by Hewlett-Packard as a valid platform to run OpenVMS. HP provides transfer licenses for the VAX/VMS operating system and layered products, so that customers can transfer their software and licenses to the CHARON platform, and continue their HP software support contracts without modification. The VAX operating system procedures, user interface, network functionality and clustering are indistinguishable from a hardware-based Alpha environment. The virtual system has been extensively tested with the standard OpenVMS software, without software modification of any kind. There is no need for application sources; disk content can be copied in the usual manner.

CHARON-VAX/6610+ for OpenVMS Integrity is designed to replace the following VAX systems:

- VAX 6610 (up to 1 GB virtual VAX memory)
- VAX 7610 (up to 1 GB virtual VAX memory)

## Benefits

- Quick transition, no application changes
- All VAX6000 and VAX7000 model 610 hardware supported in the virtual environment
- Qualified and supported by HP, allows transfer of the OpenVMS operating system to the virtual VAX and prolongs the existing OpenVMS support services
- The virtual VAX offers better performance and more system capacity than the original VAX hardware
- Run multiple VAXes inside one Integrity system for an excellent consolidation and energy saving option



## Software Product Description CHVX-243-IPF-OV

### Product Details

- The CHARON-VAX/6610+ for OpenVMS Integrity license provides a virtual VAX system with 1 GB of memory. The host memory is used as virtual VAX memory.
- Disk and tape storage are virtual, using container files on the host system or on a storage server, allowing backup with standard tools. The number of such container files is essentially unlimited. Alternatively, physical SCSI tapes and disks can be connected via a host SCSI controller.
- Industry standard Ethernet adapters are used for Local Area Network connection.
- The number of supported adapters or devices depends on the VAX model that is virtualized.

### Features Matrix

|                                    | VAX 6610  |
|------------------------------------|---|
| Emulated VAX CPU                   | KA66-A  |
| Earliest VMS version supported     | 5.5-2   |
| Maximum VAX memory emulated        | 1 GB  |
| SCSI Subsystem                     | N/A   |
| Emulated VAX disks                 | KDM70 XMI disks   |
| Emulated VAX tapes                 | KDM70 XMI tapes<br>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 (*) |
| VAX/VMS clustering                 | NI Clusters or Shared Disk Clustering with simulated MSCP disk controllers  |
| Asynchronous serial line emulation | N/A<br>All terminal connections are via Ethernet except the emulated VAX console.   |
| Qbus subsystem                     | N/A   |
| Host memory requirement            | 2 GB  |

### Ordering Information

Unlimited run time license  
 Evaluation license  
 GOLD Support  
 PLATINUM Support (\*\*)

#### CHARON-VAX/6610+ for OpenVMS Integrity

CHVX-243-IPF-OV  
 CHVX-243-IVF-OV  
 CHVX-243-IUF-OV  
 CHVX-243-ITF-OV

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

(\*\*) Subject to geographical availability.

### Host System Requirements

HP Integrity system with n+1 CPU's 1.6 GHz minimum – one CPU per virtual VAX CPU, at least one CPU for I/O support (can be shared by multiple virtual VAX instances), running OpenVMS 8.3, minimum 1 Ethernet adapter per virtual VAX; Sufficient disk space to store the original VAX disk content.

### 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

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V 1.00  
 09/08/09