



# PersonalAlpha for Windows



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### Functionality

PersonalAlpha for can be used to develop OpenVMS/Alpha application software on ones Personal Computer. Your unmodified application code and the OpenVMS operating system still 'sees' the Alpha CPU, memory and peripherals recreated in real-time by the HAL software layer.

PersonalAlpha for Windows 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.



**PersonalAlpha for Windows** is an Alpha hardware abstraction layer that creates a virtual Alpha computer system on a Windows XP or Windows 2003 X32 host. It provides the functionality of a DEC3000-400 system running at half its speed. PersonalAlpha for Windows is designed to allow the development and testing of OpenVMS/Alpha application software on ones Personal Computer. Applications and data can be transferred to

PersonalAlpha or Windows by simply copying the original Alpha's disk contents. This substitution does not require any changes to either the OpenVMS operating system nor the layered software utilities or the binary application code.

### Features

- ◆ Provides approximately half the performance of a DEC3000/400 system when executed on a 1 GHz single CPU Intel or AMD system.
- ◆ Does not require Alpha application code conversion nor application sources.
- ◆ OpenVMS/Alpha, layered software and applications can be directly installed and do not require any modifications. The application binaries, user interface and functionality remain unchanged.
- ◆ OpenVMS/Alpha, layered products and licensed applications running on PersonalAlpha for Windows require the same licensing mechanism and units as the equivalent Alpha hardware requires.
- ◆ 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.
- ◆ PersonalAlpha for Windows provides 96 MB of Alpha memory, two emulated Alpha disks, an Ethernet port and a VT-type terminal emulator.

### Features Matrix

#### **DEC3000 model 400**

**Emulated Alpha CPU:** 21064/133 (EV4)

**VMS version supported:** 6.2 or higher

**Alpha memory emulated:** 96 MB

**Disk Subsystem:** Yes

**Emulated Alpha disks:** Two Alpha disks. Disk images.

**Emulated Alpha tapes:** n/a

**Ethernet:** Up to one (1) LANCE adapter. Nominal connection speed on the emulated Alpha level is 10 or 100 Mps \*.

**OpenVMS/Alpha clustering:** n/a

**Asynchronous serial line emulation:** n/a

**Host memory requirement:** 512 MB

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



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### **Host system requirements**

A dedicated 32-bit Windows 2003 or XP Intel or AMD based system with a single CPU of at least 1 GHz, 512 MB main memory, a CD-ROM, one (1) dedicated Ethernet adapter, Internet connection for license validation after installation and enough storage space for the Alpha disks (4 GB minimum).

### **Recommended tools**

A commercially available X-terminal emulator.

### **Product contents**

- ◆ The product is delivered through a download mechanism via Internet.
- ◆ Software license key.

### **License key**

PersonalAlpha for Windows uses a web-based license validation mechanism. Once installed on a computer, it cannot be re-installed on any other computer.

### **Warranty**

The product is delivered as-is, without any explicit or implied warranty.

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