



Software Product Description

PRODUCT NAME: DEC SoftPC 6.0/SoftWindows 2.0 for Digital Unix
45.63.02

SPD

Description

DEC SoftWindows 2.0 for Digital Unix (also called SoftPC version 6) is a software program that allows your Digital workstation or terminal to emulate a 486 PC. A PC application functions in the DEC SoftWindows environment as it functions on an x86, provided that the application does not require special hardware or a copy-protected diskette.

DEC SoftWindows supports MOTIF® and the VT220 terminal. This means that DEC SoftWindows can be executed on a Digital Unix system and displayed on a VT220 or a local or remote MOTIF display station using an LK201, LK401, LK411 or PCXAL keyboard.

DEC SoftWindows supports Novell® NetWare®, LAN Manager, Banyan® Vines, the ODI standard, TCP/IP, Winsockets, Microsoft Windows for Workgroups, Pathworks and LAN Workplace for DOS.

DEC SoftWindows includes preinstalled Microsoft® Windows® 3.11 and MS-DOS 6.22. Windows can be run in either standard or enhanced mode. Users can upgrade to Microsoft Windows for Workgroups using the supplied script files. The user must supply the distribution of Windows for Workgroups.

DEC SoftWindows' performance depends upon various factors as well as the speed of the processor upon which it executes. An Alpha system delivers compute performance in the 386 to low-end Pentium range for both DOS and Windows applications. Most applications run in the 486-speed range.

Applications used with DEC SoftWindows (except those DOS utilities included with the DEC SoftWindows software) are not Digital licensed, warranted, or supported products. The user must comply with the terms and conditions of each application software license agreement in effect between the user and application supplier.

Communications applications may not operate like those on a real PC due to differences in signalling between the Alpha processor and PC processor and the

way in which the Alpha processor handles interrupts. Many communications programs do work correctly and it is recommended that these programs be tried before purchasing DEC SoftWindows.

Emulated Environment

CPU	80486 plus Numeric Co-processor
ROM BIOS	AT BIOS extended to support the 486
Operating System	MS-DOS® Version 6.22 is included
MS-Windows®	Windows 3.11 is included
Diskette	3.5-inch 2.88MB**, 1.44MB and 720KB read/write, ** 2.88MB not supported on FDI controller on Digital Unix 4.0
Floppy drives	A and B are supported.
Hard disk	C and D drives. Up to 300 MB each.
File Sharing	E through Z can be mapped to a native directory, either local or remote.
Communications port	COM1, COM2, COM3, and COM4 map to the system serial ports.
Printer	LPT1, LPT2, and LPT3 map to serial ports or spooled device.
Main Memory	Up to 32MB.
CDROM	Supported as a file sharing device or with MSCDEX.EXE.
Video	CGA, Hercules®, EGA, VGA, and SVGA or MDA on VT220.
Keyboard	AT®101-102 enhanced.
Mouse	Microsoft® bus mouse emulated.
Clock	CMOS clock.

CMOS RAM	Emulated as a file.
Not supported	Special hardware options requiring a PC bus.
	2.88MB floppies on the FDI connector on Digital Unix 4.0

Functional Features

Operational Control

- Disk Drives - Allows the user to set up disk, CDs and floppies.
- File Sharing - The File Sharing Architecture, FSA, allows PC files to be stored in any valid Unix file, both local or remote.
- COM/LPT Ports - Allows the user to tailor the COM and LPT ports to the host environment.
- Keyboard - Allows the user to define what keyboard map file to use.
- Display - Allows the user to select between display types.
- Memory - Allows the user to configure main memory.
- Auto Flush - Allows the user to automatically flush the I/O after a prescribed interval.
- Auto Freeze - If enabled, stops the DEC SoftWindows window from using CPU cycles as soon as a different window is selected.
- Sound - Enables the workstation to beep if the PC application generates sound.
- FPU Emulation - Allows the use of the workstation's floating point unit or to emulate the PC x87 in software.
- Flush Ports - Forces a port flush on a designated port.
- Activate/Deactivate - Allows the temporary activation or deactivation of a device, such as the floppy, for other use.
- Paste Graphics - Allows user to copy graphics between the Digital UNIX® workstation screen and Microsoft Windows
- Attach/detach mouse - Attaches/detaches PC mouse to X mouse.
- Freeze/Unfreeze - If enabled, stops/permits the DEC SoftWindows window from using CPU cycles immediately.
- Restart - Reboots DEC SoftWindows.
- Save Configuration - Allows saving the user configuration at any time. The configuration is normally saved automatically at the end of a SoftWindows session.

Edit Functions

Using the mouse, text can be cut and pasted from the DEC SoftWindows window into the same window, or into a different window. Text can also be cut and pasted between a Motif window and a SoftWindows window.

Multiple Sessions

A user may operate multiple sessions of DEC SoftWindows on a workstation screen without requiring additional license units. All other use requires one license per session.

HARDWARE REQUIREMENTS

Table 1
Processors Supported

DEC 2000 Model 300 and Model 500
DEC 3000 Models 300, 300L, 300X, 300LX, 400, 400S, 500, 500S, 500X, 600, 600S, 700, 800, 800S, 900
DEC 4000 Models 6xx and 7xx
DEC 7000 Models 6xx and 7xx, DEC 10000 Models 6xx and 7xx
AlphaServer 1000 4/200, 4/233
AlphaServer 2000 4/200, 4/233
AlphaServer 2100 4/200, 4/233, 4/275, 5/250
AlphaServer 8200 5/300; AlphaServer 8400 5/300
AlphaStation 200 4/100, 4/166, 4/233
AlphaStation 250 4/266
AlphaStation 400 4/233
AlphaServer 400 4/166
AlphaStation 600 5/300
AXPpci 33; AXPpci 33S
AXPvme 64, AXPvme 100, AXPvme 160, AXPvme 230
Alpha VME 2100 (190 MHz, 275 MHz)
EB66+, EB64+, AlphaPC64

Table 2
Disk Space Requirements

Disk space required for installation:		
Root file system:	/	0 MB
Other file systems:	/usr	0 MB
	/var	94 MB

Disk space required for use (permanent):		
Root file system	/	0 MB
Other file systems	/usr	0 MB
	/var	70 MB

Those counts refer to the minimum disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

HARDWARE AND SOFTWARE RESTRICTIONS

DEC SoftWindows Version 2.0 does not support:

- 5-1/4" diskettes
- Multiple Packet Filter network connections from a single CPU.

SOFTWARE REQUIREMENTS*

Digital Unix Operating System, Version 3.2c or higher and Motif Version 1.3 or higher (if you are using 24 plane graphics cards you require Open3D 3.1 or higher)

Note: Motif is required even when DEC SoftWindows is being displayed on dumb terminals.

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

CD-ROM

This product is available on the Digital CD-ROM Software Library for Digital Unix Systems (QA-054AA-H8).

ORDERING INFORMATION

Software Licenses: QL-0HSA*^{-**} 1 user concurrent license

Software Media: QA-054AA-H8

This product is available only on the Digital CD-ROM Software Library for Digital Unix Layered Products, QA-054AA-H8.

Software Documentation: QA-0HSA*-GZ DEC SoftWindows O/A DOC KIT

Software Product Services: QT-0HSA*^{-**}

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

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Digital does not guarantee that every single PC application will run, although it has been tested with several hundred applications.

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