System Support Addendum

PRODUCT NAME: DEC PHIGS for VMS, Version 2.2 **SSA 29.38.05-A**

HARDWARE REQUIREMENTS

Processors Supported:

VAX: VAXft 3000-310
VAX 4000 Model 300

VAX: VAX 6000 Model 200 Series,
VAX 6000 Model 300 Series,
VAX 6000 Model 400 Series
VAX 6000 Model 500 Series
VAX 9000 Model 210
VAX 9000 Model 410

VAX 8200, VAX 8250, VAX 8300, VAX 8350, VAX 8500, VAX 8530, VAX 8550, VAX 8600, VAX 8650, VAX 8700, VAX 8800, VAX 8810, VAX 8820, VAX 8830, VAX 8840, VAX 8842, VAX 8974, VAX 8978

VAX-11/750, VAX-11/780, VAX-11/785

MicroVAX: MicroVAX II, MicroVAX 2000, MicroVAX 3100, MicroVAX 3300, MicroVAX 3400, MicroVAX 3500, MicroVAX 3600, MicroVAX 3800, MicroVAX 3900

VAXstation: VAXstation II, VAXstation 2000, VAXstation 3100 Series, VAXstation 3200, VAXstation 3500, VAXstation 3520, VAXstation 3540

VAXserver: VAXserver 3100, VAXserver 3300, VAXserver 3400, VAXserver 3500, VAXserver 3600, VAXserver 3602, VAXserver 3800, VAXserver 3900

VAXserver 6000-210, VAXserver 6000-220, VAXserver 6000-310, VAXserver 6000-320 VAXserver 6000-410, VAXserver 6000-420

Processors Not Supported:

VAXstation I, MicroVAX I, VAX-11/725, VAX-11/730, VAX-11/782, VAXstation 8000

Processor Restrictions

A TK50 tape drive is required for standalone MicroVAX 2000 and VAXstation 2000 systems.

Terminals:

One of the following devices is required:

VT125 with black and white or optional color monitor (ReGIS)

VT240 with black and white monitor (ReGIS, Tek® 4014)

VT241 with color monitor (ReGIS, Tek 4014)

VT330 with black and white monitor

VT340 with color monitor

Tektronix® 4014 with enhanced graphics module or equivalent

Tektronix 4107 terminal

Tektronix 4207 terminal

Tektronix 4129 terminal

VAXstation II, VAXstation II/GPX

VAXstation 2000, VAXstation 3000 Series

Block Space Requirements (Block Cluster Size = 1):

DEC PHIGS Development Kit:

Disk space required for installation:	23,000 blocks (11.8M bytes)
Disk space required for use (permanent):	22,000 blocks (11.3M bytes)

digital™

October 1990
AE-LT83F-TE

DEC PHIGS Run-Time Library Kit:

Disk space required for installation:	17,000 blocks (8.7M bytes)
Disk space required for use (permanent):	16,500 blocks (8.5M bytes)

These counts refer to the 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.

Memory Requirements for DECwindows Support:

The minimum supported memory for this application running in a standalone DECwindows environment with both the client and server executing on that same system is 24 Mbytes.

The performance and memory usage of DECwindows applications are particularly sensitive to system configuration. Less memory may be required on the client system (the system where the software is installed and executed) if the server (the component that displays the application) resides on another system. More memory may be required on a system with several applications running or where it may be desirable to improve the performance of an application.

OPTIONAL HARDWARE

DEC PHIGS for ULTRIX (SPD 25.K7.xx) supports the following input devices only with the DECwindows device handler:

- Graphics Peripheral Set (32 Function Key Box and 6 Dial Box)

DEC PHIGS for VMS also supports a variety of hardcopy output devices and devices which are strictly compatible. Hardcopy devices supported by DEC PHIGS for VMS are:

Compatible Sixel Devices

- Digital LN03 PLUS Laser Printer
- LN03 with LN03S-UA upgrade kit
- Digital DEClaser 2100 Laser Printer
- LA34 with graphics option
- LA100
- LA75
- LA50 (restricted to a 2:1 aspect ratio)
- LA210
- LA324 (Color Sixel Printer)

Compatible Hewlett-Packard® Graphics Language (HPGL)™ Devices:

- Digital LVP16 Pen Plotter
- HP7475 Hewlett-Packard Pen Plotter
- HP7550 Hewlett-Packard Pen Plotter
- HP7580 Hewlett-Packard Pen Plotter
- HP7585 Hewlett-Packard Pen Plotter
- LASERGRAPHICS MPS-2000™ Film Recorder

Ink Jet Plotters

- Digital LCG01 Color Ink Jet Plotter (ReGIS)
- Digital LJ250 (Color Sixel)

Compatible PostScript® Devices

- Apple LaserWriter™
- Apple LaserWriter +™
- LPS40 Laser Printer
- LN03R ScriptPrinter

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* sections of this product's Software Product Description and System Support Addendum detail any special hardware required by this product.

* V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (29.78.xx) and include CI, Ethernet and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

For Systems Using Terminals (No DECwindows Interface):

VMS Operating System V5.3-1, V5.4

For Workstations Running VWS:

VMS Operating System V5.3-1, V5.4

VMS Workstation Software V4.0

For Workstations Running DECwindows:

VMS Operating System V5.3-1, V5.4 (and necessary components of VMS DECwindows)

This product may run in either of the following ways:

- Stand-alone execution - Running the X11 display server and the client application on the same machine.
- Remote execution - Running the X11 display server and the client application on different machines.

VMS DECwindows is part of the VMS Operating System but must be installed separately. Installation of VMS DECwindows gives you the option to install any or all of the following three components:

- VMS DECwindows Compute Server (Run-Time Support)
- VMS DECwindows Device Support
- VMS DECwindows Programming Support

For stand-alone execution, the following DECwindows components must be installed on the machine:

- VMS DECwindows Compute Server (Run-Time Support)
- VMS DECwindows Device Support
- VMS DECwindows Programming Support

For remote execution, the following DECwindows components must be installed on the machine:

Server Machine

- VMS DECwindows Compute Server (Run-Time Support)
- VMS DECwindows Device Support
- VMS DECwindows Programming Support

Client Machine

- VMS DECwindows Compute Server (Run-Time Support)
- VMS DECwindows Device Support
- VMS DECwindows Programming Support

For the development of application programs that use DEC PHIGS under VMS, one of the DEC PHIGS supported languages is also required.

VMS Tailoring

For VMS V5.x systems, the following VMS classes are required for full functionality of this layered product:

- VMS Required Saveset
- Network Support
- Programming Support

For more information on VMS classes and tailoring, refer to the VMS Operating System Software Product Description (SPD 25.01.xx).

OPTIONAL SOFTWARE

DEC PHIGS for VMS supports the following languages through the DEC PHIGS language independent interface:

VAX FORTRAN V5.5

VAX Ada V2.1

VAX PASCAL V4.1

VAX C V3.1

VAX PL/I V3.4

VAX BASIC V3.4

Note: Certain versions of these products depend on a specific version of the operating system. Please refer to the System Support Addendum (SSA) of the product in question to determine which version is necessary.

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

Tape: 9-track 1600 BPI Magtape (PE), TK50 Streaming Tape

This product is also available as part of the VMS Consolidated Software Distribution on CDROM.

ORDERING INFORMATION

Development Option

Software Licenses: QL-0KBA*-**
Software Media: QA-0KBA*-**
Software Documentation: QA-0KBAA-GZ
Software Product Services: QT-0KBA*-**

Run-Time Option

Software Licenses: QL-VK1A*-**
Software Media: QA-VK1A*-**
Software Product Services: QT-VK1A*-**

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

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

® Hewlett-Packard is a registered trademark of Hewlett-Packard Company.

® PostScript is a registered trademark of Adobe Systems, Inc.

® Tektronix and Tek are registered trademarks of Tektronix, Inc.

™ Apple LaserWriter and Apple LaserWriter+ are trademarks of Apple Computer, Inc.

™ HPGL is a trademark of Hewlett-Packard Company.

™ LASERGRAPHICS MPS-2000 is a trademark of Laser-Graphics Inc.

™ The DIGITAL Logo, DEC, DECwindows, LN03, LN03 PLUS, LN03S, LN03R, LPS40, LVP16, MicroVAX, ReGIS, VAX, VAXserver, VAXstation and VMS are trademarks of Digital Equipment Corporation.