PCSA   *94-003/10/04*

digital ™

DECnet/PCSA Client Release Notes Version 2.0

Contents

DECnet/PCSA Client Release Notes

This document contains the release notes for DECnet/PCSA Client
software V2.0. The release notes cover the following topics:

- Differences between previous versions of DECnet/PCSA and
  V2.0

- DECnet/PCSA V2.0 functionality

- Installation

- Upgrading a PCSA Workstation Hard Disk for DECnet/PCSA
  Client Software V2.0

- DECnet/PCSA networks and DECnet-DOS V2.0

- Configuration aide

- MS-Windows

- MS-DOS V3.3 for DECnet/PCSA VAXmate clients

- COMPAQ and PS/2 Workstations and Configuration Aide

- DOS Enhancements for DECnet/PCSA PC clients

> **NOTE**
> DECnet-DOS and DECnet-VAXmate release notes are
> available only online. The release notes are in files named
> README.TXT on separate installation diskettes.
>
> After you install the client software, you can find the
> DECnet-DOS and DECnet-VAXmate release notes in the
> \DECNET directory on the device on which you installed the
> client software.

Differences Between Previous Versions of DECnet/PCSA and V2.0

The following list describes the differences between previous versions
of DECnet/PCSA and V2.0:

- Workstation/User Configuration

  For DECnet/PCSA V1.0, V1.1, and V1.2, both the workstation
  and user configuration were defined by the AUTOEXEC.BAT
  file.

For DECnet/PCSA V2.0, the workstation configuration has been separated from the user configuration. The workstation configuration is defined by the AUTOEXEC.BAT file on the key diskette or network key disk. The user-specific configuration is defined by the AUTOUSER.BAT file from the user's personal directory or service.

• DOS Enhancements

The kit supports only DOS V3.20 and V3.30. It does not support DOS V3.10.

The KEYB utility has been renamed DECKEYB.

New Utilities:

— XONXOFF provides support for asynchronous ports that have communications devices and attached serial printers that use the XON/XOFF protocol.

— DECMODE performs the following functions:

Sets up communications port parameters, including the setting of the modem signal control switch.

Sets up printer parameters and printer type.

Sets keyboard mode and type ahead buffer size.

Sets video mode.

DECMODE does not support code pages. Use your native DOS for code page support.

Before you can set the keyboard mode or the type ahead buffer size you must run KEYBRD.

Before you can set the printer type or set the bypass modem control signals switch you must run XONXOFF.

New Functionality:

— GRAPHICS now supports the Digital LJ250 Ink Jet Color Printer and the IBM Personal Computer Color Printer. There is also a new qualifier, /B, that enables background printing on color printers.

New Program Information Files (PIFs):

- — DECMODE.PIF
- — FASTOPEN.PIF (DOS V3.30 only)
- — KEYBRD.PIF
- — NLSFUNC.PIF (DOS V3.30 only)
- — XONXOFF.PIF

- Online Information System

  The system messages are contained in a text file called MESSAGES.TXT. The topic Printing System Messages under the Getting Started with Your Workstation menu choice describes how to print the system messages.

- SESSION.EXE has been renamed to NETSESS.EXE.

- KEYB.EXE has been renamed DECKEYB.COM.

- In MS-Windows, the LN03 Plus Courier font file has been renamed DECourier. The LN03 Plus Courier Compressed font file has been renamed DECourier Compressed.

DECnet/PCSA V2.0 Functionality

DECnet/PCSA V2.0 contains substantial new functionality over the previous versions of the product, including the following features:

- MS-DOS V3.3 is provided only with DECnet/PCSA VAXmate Client Kits.

- IBM NETBIOS emulation, which allows applications that require NETBIOS to run under DECnet/PCSA.

- Network virtual disks, which provide high speed emulation of a DOS disk drive from a VAX computer running PCSA VAX/VMS server software.

- Remote boot from a network virtual disk for a VAXmate workstation or IBM PC equipped with a DEPCA, which allows centralization of key disk management and the use of diskless workstations.

- A LOGIN utility (LOGIN.BAT), which is used to automatically configure a user's PCSA environment, as defined in the AUTOUSER.BAT file.

- A HELP utility for the NET commands similar to the VMS HELP utility.

- Complete DECnet-DOS or DECnet-VAXmate kit V2.0.

- MS-Windows support for standard IBM keyboards and those of selected PC compatibles, which allows you to run MS-Windows on a DECnet/PCSA PC Client without LK250 keyboard or DIGITAL mouse.

- SETHOST, which provides VT240 terminal emulation for the DECnet/PCSA VAXmate Client, and VT220 terminal emulation for the DECnet/PCSA PC Client. SETHOST for the DECnet/PCSA PC Client does not require the LK250 keyboard.

- New VT220 terminal emulation functions:
    - Redefinable title bar

    - Unshifted UDKs

    - UDKs that can be saved and recalled

    - Redefinable Icon

    - Script Processor

    - Support for AT, XT, PC-Enhanced and selected compatible keyboards and LK250 keyboard

- DECnet/PCSA PC Clients can now use third-party Ethernet controllers to communicate with DECnet/PCSA servers. (See your Software Product Description, (SPD 55.07) for information on supported Ethernet controllers.)

- DECnet/PCSA Client systems can now use asynchronous DECnet to communicate with remote servers.

- The USE command, which has been extended to support new file services security, including VMS Access Control List support, and the virtual disk services.

- The NET utility, which includes additional server management commands for client users.

- The Boot Address Utility (BOOTADDR.EXE), which determines a workstation Ethernet hardware address, needed to register the workstation for remote boot.

- A Windows and non-Windows version of NFT/FAL utilities.

Installation

There are five DECnet/PCSA Client software kits:

- DECnet/PCSA VAXmate Client with VMS media

- DECnet/PCSA VAXmate Client with DOS diskettes

- DECnet/PCSA PC Client with VMS media

- DECnet/PCSA PC Client with 5 1/4-Inch DOS diskettes

- DECnet/PCSA PC Client with 3 1/2-Inch DOS diskettes

COMPAQ DOS 3.3 contains 3 installation diskettes. The DECnet/PCSA client software installation prompts you to install only 2 IBM DOS diskettes. To install the client software on a COMPAQ, you must copy the third DOS 3.3 diskette after the DECnet/PCSA client software installation has completed. The DECnet/PCSA client software installation is complete when the following message is displayed:

```
Installation of DECnet/PCSA PC Operating Environment V2.0 completed.
```

To copy the third DOS 3.3 diskette, insert the correct diskette into drive A: and type:

```
A:\>COPY A:*.* L:\SYSTEM\*.* Return
```

DECnet/PCSA PC Client software requires that you run PC-DOS V3.2 or V3.3 on your client workstations to use some of the major features of this product.

When installing DECnet/PCSA PC client software, be sure to select the DOS Enhancements diskette for the correct version when prompted.

When installing DECnet/PCSA PC client software on PC workstations other than IBM, follow the instructions for IBM workstations.

During the Select Keyboard part of the installation for PC workstations with DIGITAL keyboards, the installation procedure displays the following message:

```
Please run KEYBRD
```

You can ignore this message.

If you install client software to the file server, be sure the DECnet/PCSA_ADMIN service is on the same node as the file server.

Once the DECnet/PCSA client software is installed, configure the initial workstation using the Configuration Aide immediately after the installation is complete. Before you start configuring other workstations, you should familiarize yourself with DECnet/PCSA using the initial workstation diskette that you built after the installation.

When running VMSINSTAL for VAX/VMS based installations, you are required to type the name of the disk or file service that will be created. Make sure you type a service name that does not already exist.

If you are performing an installation to a virtual disk and the message "Insufficient disk space" is displayed, it is possible that your virtual disk is not fully allocated. You can modify the disk and increase its allocated size using either the MODIFY DISK command or the NET MODIFY command.

For more information about the MODIFY DISK command, see the *VAX/VMS Services for MS-DOS Administration Guide*. For more information about the NET MODIFY command, see *Using Networks from Your Workstation*.

Upgrading a PCSA Workstation Hard Disk for DECnet/PCSA Client Software V2.0

When you have DECnet/PCSA Client software V1.* installed on your hard disk, and you want to install DECnet/PCSA Client V2.0 software, you must:

1. Ensure that your workstation hard disk has DOS V3.2 or V3.3 installed. To upgrade a VAXmate hard disk, see the release note "MS-DOS 3.3 for DECnet/PCSA VAXmate Clients." To upgrade a PC workstation hard disk, see your DOS installation guide.

2. Delete all the files in the following directories, and the subdirectories stored in them, then remove the directories and subdirectories:

   - PCAPP

   - VXSYS (for VAXmate workstations)

   - ISSYS (for PC workstations)

   The directories should be in the root directory on the hard disk.

To remove a directory, use the DEL command to delete all the files in the directory. Then use the RMDIR command to remove the directory from the hard disk. For information on using the DEL and the RMDIR commands, see your DOS user's guide.

3. Change to the DECNET directory. Delete any files without the .DAT extension.

4. To save your DECnet database files in the DECNET directory from being overwritten the first time you boot the workstation, rename any DECNET directory files with a .DAT extension to have a .OLD extension. Later, you can restore the old version of the DECNET .DAT files. If you do not need to save the files, V2.0 creates new DECnet databases for you, overwriting any existing .DAT files.

5. Boot your workstation with a V2.0 key diskette, created using the Configuration Aide.

6. At the DOS prompt, type:

    `A:\>LOGIN /INIT_WORKSTATION` `Return`

7. Remove the key diskette and reboot the workstation from the hard disk, by pressing the Ctrl/Alt/Del keys.

8. To restore your old versions of the DECNET databases (.DAT files), delete any new .DAT files in the DECNET directory. Run the NMCVT program by typing:

    `C:\>NMCVT X` `Return`

DECnet/PCSA Networks and DECnet-DOS V2.0

This section contains information about:

-   Creating a master node database

-   Connecting V1.* workstations to a V2.0 file server

-   Connecting a V2.0 workstation to a V1.0 or V1.1 file server

-   Known problems

Creating a Master Node Database

In the DECnet/PCSA_ADMIN area, you must maintain a master node database if you are using the Configuration Aide to build key disks. You must create the master node database on your workstation and copy it to the DECnet/PCSA_ADMIN area.

You may want to update the DECnet/PCSA_ADMIN account used by the Configuration Aide with a master node database from a previous version system, in this case convert DECNODE.DAT as described above and then copy it to DECnet/PCSA_ADMIN.

Alternatively, you can create a master node database on your V2.0 workstation. To create the database, define each node that runs the file server by typing:

```
A:\>NET DEFINE nodename nodeaddress Return
```

Where:

nodename   Is the file server DECnet node name.

nodeaddress   Is the file server DECnet node address.

Nodes you define with the NET DEFINE command are not recognized by the workstation until you restart it.

If you need to define other nodes, type the following NCP command for each node you want to add:

```
A:\>NCP DEFINE nodeaddress NAME nodename Return
```

See NCP HELP for additional switches and qualifiers.

Connecting V1.* Workstations to a V2.0 File Server

You can connect existing V1.* workstations to a V2.0 VAX/VMS file server. You must run the upgrade procedure in SYS$MANAGER:DECnet/PCSA_UPGRADE.COM to convert your existing services (aliases in the UAF) to V2.0 services. See the *VAX/VMS Services for MS-DOS Installation Guide* for more information on the upgrade procedure.

Connecting a V2.0 Workstation to a V1.0 or V1.1 File Server

You can connect V2.0 workstations to a V1.0 or V1.1 file server. When you issue the NET USE command, do not specify the user name. For more information on the NET USE command, see the *Using Networks from Your Workstation.*

The NET MOUNT /CLUSTER Command

The NET MOUNT command does not recognize the /CLUSTER qualifier. Instead of the /CLUSTER qualifier, use the /QUERY qualifier. For example:

```
NET MOUNT /q
NET MOUNT \\node%service%username * /q
```

Using the NET ERROR Command

If you use the NET ERROR command when the first virtual disk drive is not connected, the NET ERROR command fails. You must be connected to the first virtual disk drive to use the NET ERROR command.

Recalling NET Commands

After you issue a NET command, you cannot recall the command just typed. This affects only the command editing buffer used by DOS.

PC Workstations and Remote Boot

PC workstations with DEPCAs installed can take advantage of the remote boot capabilities of DECnet/PCSA V2.0. When the workstation is booted from the network, the remote boot image uses the upper 17 Kbytes of memory. The total memory size as reported by utilities such as CHKDSK will be off by 17 Kbytes.

PC Workstations and Connecting to the Network

If you are unable to make network connections on an AT-class workstation that does not have a real-time clock, type the following command at the DOS prompt:

```
A:\>NCP SHOW LINE COUNT Return
```

Check the Seconds Since Last Zeroed value. If it is zero or if, after you repeat the command, the Seconds Since Last Zeroed value has not been updated, include the following line in the AUTOEXEC.BAT file before the first NET START command:

```
SCHPC /S
```

This command forces the scheduler to use the system clock.

> **NOTE**
> During remote boot, an AT-class workstation always uses the system clock.

Configuration Aide

This section contains information about:

- Upgrading the Application Database
- Manually Updating your System Directory
- Manually Updating your Start-up Files
- Configuring PC Workstations without LK250 Keyboards
- AUTOLOGIN
- Defining Maximum DECnet Links
- Known problems

Upgrading the Application Database

If you have a previous version of the application database, you can convert it to a V2.0 application database as follows:

1. Copy the CAAPPLST.DAT file from PCAPP on your V1.0, V1.1, V1.2 system to DECnet/PCSA_ADMIN.

2. Delete the CADATA.DAT file in the DECnet/PCSA_ADMIN area.

   When you next run the Configuration Aide, it automatically converts the V1.0, V1.1, V1.2 database to a V2.0 database.

Manually Updating your System Directory

To manually update your system directories on the hard disk:

1. Transfer a DOS V3.2 or DOS V3.3 system to the hard disk.

2. Boot the workstation from its key disk.

3. Create the system directories on the workstation hard disk by typing:

```
A:\>MKDIR C:\SYSTEM Return
A:\>MKDIR C:\DECNET Return
A:\>MKDIR C:\WIN Return
A:\>MKDIR C:\WIN\dir Return
```

Where:

dir   Is the MS-Windows directory for your workstation.

There may be more than one MS-Windows directory. For example, C:

If you are not running MS-Windows, you do not need to create the WIN directories.

4. Type the following COPY commands to transfer the system files:

```
A:\>COPY L:\SYSTEM\*.* C:\SYSTEM Return
A:\>COPY L:\DECNET\*.* C:\DECNET Return
A:\>COPY L:\WIN\dir C:\WIN\dir Return
```

Where:

dir   Is the MS-Windows directory for your workstation.

There may be more than one MS-Windows directory. For example, C:

You can skip the last COPY command if you do not require MS-Windows.

5. Copy the datalink and session files to your hard disk:

```
A:\>COPY A:\DECNET\DLL.EXE C:\DECNET Return
A:\>COPY A:\DECNET\SESSION.EXE C:\DECNET Return
```

If you start your workstation from your hard disk, follow the procedure in the next section to update the start-up files.

Manually Updating your Start-up Files

To manually update start-up files on the local hard disk:

1. Transfer a DOS V3.2 or DOS V3.3 system to the hard disk.

2. Boot the workstation from its key diskette.

3. Create the DECNET directory on the workstation hard disk by typing:

```
A:\>MKDIR C:\DECNET Return
```

4. Type the following COPY commands to transfer files from your key diskette.

```
A:\>COPY A:\*.* C:\*.* Return
A:\>COPY A:\DECNET\*.* C:\DECNET Return
```

Now you can start the workstation from the hard disk.

Configuring PC Workstations without LK250 Keyboards

When you use the Configuration Aide to configure a PC workstation that is running DOS 3.3 and does not have an LK250 keyboard, the Configuration Aide adds the following line to the AUTOEXEC.BAT file:

```
KEYBRD
```

If you do not have an LK250 keyboard connected to the PC workstation, edit the AUTOEXEC.BAT file and delete this line.

AUTOLOGIN

If there is no AUTOUSER.BAT file in your personal virtual or file service, the first time an AUTOLOGIN is performed, a message is displayed that tells you to type the command:

```
LOGIN /INIT_USER
```

If you type the preceding command and there is a LOGIN.COM file in your personal virtual or file service, the AUTOLOGIN command runs the LOGIN.COM file instead of the LOGIN.BAT file in the \SYSTEM directory on drive L:. You should use the LOGIN.BAT file in the \SYSTEM directory. To do this, type:

```
L:\SYSTEM>LOGIN /INIT_USER drv Return
```

Where:

drv   Is the drive or path name for the directory in which the USER.BAT file is stored.

The Configuration Aide AUTOLOGIN option is not supported on DECnet/PCSA V1.0, V1.1 or V1.2. If you are using a V2.0 client and your personal directory is stored on a server running DECnet/PCSA V1.0, V1.1, or V1.2, you cannot select the Configuration Aide AUTOLOGIN option.

If you try to use AUTOLOGIN to connect to a DECnet/PCSA V1.0 or V1.1 server, the following message is displayed:

```
NET818: Network name not found
```

Defining Maximum DECnet Links

When using the Configuration Aide, you specify the maximum DECnet links to define the number of remote hosts to which a workstation can connect. If the maximum DECnet links is greater than 4, add the /S:n qualifier to the NET START RDR command in the AUTOEXEC.BAT file. For example:

```
NET START RDR /S:n
```

Where:

n   Is the number of DECnet links, which is equal to the Executor Characteristics Maximum Links setting.

MS-Windows

This section contains information about:

- Using the Calendar application
- Virtual disk drive icons
- The XCOPY Command
- Deleting files
- Clipboard and COMPAQ Deskpro
- The VT220 terminal emulator

Using the Calendar Application

When filling in dates using the Calendar application in 12-hour mode, you cannot use a 24-hour time format.

When setting time formats, you must type AM and PM in uppercase.

Virtual Disk Drive Icons

If you try to connect to a drive icon for a virtual disk from which you are disconnected, MS-Windows displays an error message.

After you disconnect from a virtual disk, the MS-DOS Executive window continues to display the virtual disk drive icon. The virtual disk drives are accessed by a device driver that registers four drives. Because MS-Windows gets its drive information through MS-DOS, there is no information about connections.

The XCOPY Command

Do not use the XCOPY command in MS-Windows. XCOPY uses an old FCB method of determining source and destination drives. WINOLDAP, which is a standard applications interface to MS-Windows, does not copy command arguments to FCBs.

Deleting Files

MS-Windows works differently from DOS when deleting files with different attributes. In DOS, you cannot delete files with either the hidden attribute or the read only attribute set. The MS-Windows MS-DOS Executive deletes files with the hidden attribute set, but does not delete files with the read only attribute set. For information on the file attributes, see your DOS reference manual.

Clipboard and COMPAQ Deskpro

On a COMPAQ Deskpro workstation, you cannot transfer screen data from a standard application to the MS-Windows Clipboard.

The VT220 Terminal Emulator

This section contains information about:

- The SYSTEM: command
- Error log files
- Using Cut and Paste to an EDT Session
- Defining UDKs
- Modem Control
- Multiple VT220 Sessions

The SYSTEM: Command

To use the SYSTEM command from a script, there must be 150 Kbytes of memory free and available. To determine the amount of free memory, select the ABOUT option from the MS-DOS Executive window System menu.

Error Log File

If there is more than one instance of the VT220 emulator processing a script at one time, the script error log file name changes from ERROR.LOG to ERROR%.LOG, where % is the VT220 instance number for any instance after the first.

Using Cut and Paste to an EDT Session

When pasting a large buffer to an EDT editing session, characters sometimes get lost. The EDT editor cannot receive and process the rapid firing of characters while updating the screen.

To avoid losing characters, before starting to cut and paste, type:

```
$ SET TERM/HOSTSYNC  Return
```

If characters are still lost, either:

- Reduce the baud rate

- Before pasting, set EDT to line mode rather than command mode

Defining UDKs

You can define UDKs F6 - F20 using the 7-bit and 8-bit device control string DECUDK. Using the VT220 emulator Set-up, you can define the UDK to require or not require use of the Shift key.

When you use the VT220 emulator Set-up to set the UDK SHIFT state, the state you select affects how you use DCL function keys defined by the VAX/VMS DCL DEFINE/KEY command. If you set the UDK SHIFT state to Shifted, you can use the DCL function key without using the Shift key. If you set the UDK SHIFT state to Unshifted, you can use the DCL function key by first pressing the Shift key.

Modem Control

The MS-Windows VT220 Terminal Emulator does not support full modem control.

The MS-Windows operating environment does not support preemptive scheduling, which means that the precise timings required for full modem control cannot be guaranteed to be accurate.

Listed below are the known problems with full modem control for the MS-Windows VT220 terminal emulator:

- If DSR comes on and CD does not come on within 30 seconds, the terminal should initiate a disconnect.

- If CD is on and then dropped, the terminal should wait either 2sec or 60ms (based on the Set-Up parameter) for CD to come back on. If CD does not come back on, the terminal should initiate a disconnect.

- If DSR is off, a disconnect should turn DTR off for 220ms and then back on. If DSR is on, a disconnect should turn DTR off for 5sec and then turn DTR back on. The VT220 terminal emulator turns off DTR for 183ms, which is too short.

SETHOST supports control of asynchronous modems.

Multiple VT220 Sessions

Do not set up the WIN.INI file to load more than two sessions of the VT220 terminal emulator when MS-Windows starts. If the WIN.INI file loads three VT220 sessions and runs one of the sessions when MS-Windows starts, unpredictable results can occur. When all sessions are opened as windows, two sessions can receive and transmit the same data.

To avoid this problem, load additional VT220 sessions after MS-Windows starts.

MS-DOS V3.3 for DECnet/PCSA VAXmate Clients

This section contains information about:

- Updating Your Hard Disk with DOS V3.3

- The COMMAND.COM File

- The CONFIG.SYS File

- The DISKCOMP Command

- The DISKCOPY Command

- The XCOPY Command

Updating Your Hard Disk with DOS V3.3

If you have a VAXmate workstation with a hard disk that contains MS-DOS V3.1, and you want to install MS-DOS V3.3 to the hard disk, you must:

1. Backup your hard disk startup partition using the BACKUP command.

2. Boot the MS-DOS system disk supplied with the kit containing MS-DOS V3.3.

3. Run SYS from drive A: to your hard disk startup partition (usually C:)

    ```
    A:\>SYS C: Return
    ```

    If no errors occur, your hard disk now has the MS-DOS 3.3 operating system on it. Delete all MS-DOS 3.1 files from your hard disk and copy the MS-DOS 3.3 utilities to the directory on your hard disk where you store MS-DOS utilities. For example:

    ```
    A:\>DEL C:\SYSTEM\*.* Return
    A:\>COPY A:\*.* C:\SYSTEM\*.* Return
    ```

    If an error occurred, continue with Step 4.

    If no error occurred, continue with Step 6.

4. Format the partition by typing:

    ```
    A:\>FORMAT C: /S Return
    A:\>MKDIR C:\SYSTEM Return
    ```

5. Copy the DOS utilities from drive A to the system subdirectory on drive C by typing:

   ```
   A:\>COPY A:\*.* C:\SYSTEM\*.* Return
   ```

6. Then type:

   ```
   A:\>ATTRIB C:\SYSTEM\*.* +R /S Return
   ```

   Now restore the files using the RESTORE command. Be sure to use the /P qualifier and answer "No" to all prompts requests to write over existing files.

7. Copy COMMAND.COM as follows:

   ```
   A:\>COPY A:COMMAND.COM C: Return
   ```

The COMMAND.COM File

The default DOS environment size is 512 bytes.

The CONFIG.SYS File

When starting the workstation, if the CONFIG.SYS file contains an invalid command, the line after the invalid command is skipped. The system displays an error message indicating that the CONFIG.SYS file contains an invalid line.

The DISKCOMP Command

Using the DISKCOMP command, you can compare virtual disks up to 1.2 Mbytes in size.

The DISKCOPY Command

Using the DISKCOPY command, you can copy virtual disks up to 1.2 Mbytes in size.

The XCOPY Command

The XCOPY command does not work under MS-Windows.

COMPAQ and PS/2 Workstations and Configuration Aide

This section contains information about:

- Configuring PC workstations without LK250 keyboards

- Configuring PS/2 workstations

- COMPAQ and PS/2 Model 30s and Ethernet Controllers

- Adding Partitions to the COMPAQ Hard Disk

Configuring PC Workstations without LK250 Keyboards

When you use the Configuration Aide to configure a PC workstation that is running DOS 3.3 and does not have an LK250 keyboard, the Configuration Aide adds the following line to the AUTOEXEC.BAT file:

```
KEYBRD
```

If you do not have an LK250 keyboard connected to the PC workstation, edit the AUTOEXEC.BAT file and delete this line.

Configuring PS/2 Workstations

The Configuration Aide creates a \DRV directory that contains all system files for running MS-Windows. For the PS/2 family of PC workstations, you must copy the following files and give them the following names:

Files	New file name
CGA.LGO	IBMPS230.LGO
CGA.GRB	IBMPS230.GRB
EGAHIRES.GRB	IBMPS250.GRB
EGAHIRES.LGO	IBMPS250.LGO

Use the COPY command to copy and change the file names. For example:

```
A:\>COPY CGA.LGO IBMPS230.LGO [Return]
```

After copying the files in the \DRV directory, you should have both copies of each of these files.

COMPAQ and PS/2 Model 30s and Ethernet Controllers

The DECnet/PCSA network software uses the /IRQ = 5 as the default, and the Configuration Aide does not have an option that lets you change the /IRQ setting. If you are using a supported third-party Ethernet controller with an IRQ other than 5, you must:

1. Create the key diskette.

2. Determine the correct /IRQ setting for the jumper location on your third-party Ethernet controller. See your Ethernet controller hardware documentation.

3. Edit the AUTOEXEC.BAT file to change the first NET command to:

   ```
   NET xxx yyy /IRQ:
   ```

   Where:

   xxx   Is either the START command or the SET EXECUTOR command

   yyy   Is the network software you want to start: RDR, for the redirector, or LAD for the virtual disk software

   IRQ:n   Is the correct IRQ setting for your Ethernet controller

   For example:

   ```
   NET START LAD /IRQ:3
   ```

If the first NET command is NET START LAD, you need to change only this command.

If the first NET command is NET SET EXECUTOR, you need to change this command and the NET START RDR or NET START LAD.

For more information on editing the AUTOEXEC.BAT file, see *Using Networks from Your Workstation*.

Adding Partitions to the COMPAQ Hard Disk

To add an additional partition to the hard disk, you must load an additional driver.

The Configuration Aide adds all additional drivers to the end of the CONFIG.SYS file. The Configuration Aide loads LADDRV.SYS on drive D. The additional driver required for the additional partition also tries to load to drive D and the system hangs.

After the Configuration Aide creates the CONFIG.SYS file, edit the file and move the line for the additional driver to the line before the LADDRV.SYS command line. The system then loads the partition drive before the LAD drives.

For example, if you are adding one extra partition to the hard disk, the total number of partitions on the hard disk is two. From the Configuration Aide, with the Disk Information option in the Workstation Menu, select a hard disk with two partitions. In the Start-up Drivers option in the Workstation Menu, add the COMPAQ driver that adds the extra partition. You must copy this driver to the boot device before booting.

For example, the old CONFIG.SYS can include the following commands:

```
BUFFERS=30
:
DEVICE=LADDRV.SYS
:
DEVICE=partition driver
:
```

The new CONFIG.SYS would change to:

```
BUFFERS=30
:
DEVICE=partition driver
DEVICE=LADDRV.SYS
:
```

For more information on drive assignments, see *Using Networks from Your Workstation*.

DOS Enhancements for DECnet/PCSA PC Clients

This section contains information about:

- Using the FORMAT command with virtual disks

- Using the DISKCOMP and DISKCOPY commands with virtual disks

- Using the DISKCOPY command with virtual disks

- Using the BACKUP command with the /F qualifier
- Using the DECMODE Command on a COMPAQ Workstation
- The SETHOST Keyboard Buffer

Using the FORMAT Command with Virtual Disks

Do not use the FORMAT qualifiers /1/4/8/S/B/N/T with virtual disks.

Using the DISKCOMP Command with Virtual Disks

Do not use the DISKCOMP or DISKCOPY commands on virtual disks greater than 1.2 Mbytes.

If you use the DISKCOMP or DISKCOPY commands with a virtual disk as a parameter, DOS prompts you to insert the diskette into the virtual disk drive. Press the Return key, and the DISKCOMP or DISKCOPY command continues.

Using the BACKUP Command with the /F Qualifier

If you use the BACKUP command with the /F (format destination) qualifier and you insert a destination diskette that has a write-protect tab, the BACKUP command stops and displays the following error message:

```
Target can not be used for BACKUP.
```

Be sure to remove the write-protect tab from any diskette you use as the destination diskette for the BACKUP command.

Using the DECMODE Command on a COMPAQ Workstation

DECMODE—When you use the DECMODE command to put a COMPAQ 8086 or COMPAQ 80286 in one of the following graphics video modes, the results are unpredictable:

- CO320
- BW320
- BW640

The first column on the screen can disappear after the screen has been filled up once or the screen can be filled with miscellaneous data. In these cases, you cannot user graphics video mode.

The SETHOST Keyboard Buffer

When you start SETHOST, the keyboard buffer size must be 16 or less. If the keyboard buffer size is greater than 16, you must run the following command before running SETHOST:

`A:\>DECMODE ,16 ` Return

READER'S COMMENTS

Your comments and suggestions help us to improve the quality of our publications.

For which tasks did you use this manual? (Circle your responses.)

(a) Installation (c) Maintenance (e) Training
(b) Operation/use (d) Programming (f) Other (Please specify.) ⎯⎯⎯⎯

Did the manual meet your needs? Yes ☐ No ☐ Why? ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

Please rate the manual in the following categories. (Circle your responses.)

	Excellent	Good	Fair	Poor	Unacceptable
Accuracy (product works as described)	5	4	3	2	1
Clarity (easy to understand)	5	4	3	2	1
Completeness (enough information)	5	4	3	2	1
Organization (structure of subject matter)	5	4	3	2	1
Table of Contents, Index (ability to find topic)	5	4	3	2	1
Illustrations, examples (useful)	5	4	3	2	1
Overall ease of use	5	4	3	2	1
Page Layout (easy to find information)	5	4	3	2	1
Print Quality (easy to read)	5	4	3	2	1

What things did you like *most* about this manual? ⎯⎯⎯⎯⎯⎯⎯⎯⎯

What things did you like *least* about this manual? ⎯⎯⎯⎯⎯⎯⎯⎯⎯

Please list and describe any errors you found in the manual.

Page   Description/Location of Error

⎯⎯⎯   ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯
⎯⎯⎯   ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯
⎯⎯⎯   ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯
⎯⎯⎯   ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

Additional comments or suggestions for improving this manual: ⎯⎯⎯⎯⎯

Name ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯ Job Title ⎯⎯⎯⎯⎯⎯⎯⎯⎯
Street ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯ Company ⎯⎯⎯⎯⎯⎯⎯⎯⎯
City ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯ Department ⎯⎯⎯⎯⎯⎯⎯⎯
State/Country ⎯⎯⎯⎯⎯⎯⎯⎯ Telephone Number ⎯⎯⎯⎯⎯⎯
Postal (ZIP) Code ⎯⎯⎯⎯⎯⎯ Date ⎯⎯⎯⎯⎯⎯⎯⎯⎯