

DIGITAL PC

System Software

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Digital Equipment Corporation

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DIGITAL PC System Software

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Introduction

Your computer comes with the Windows 95 or Windows NT Workstation operating system and the necessary device drivers pre-installed on your hard disk drive. The operating system, utilities, and device drivers are optimized for your computer's configuration and are ready for use.

This book describes:

- The software and documentation that you receive on your hard disk drive
- The operating system software kit
- The System Software CD-ROM and supplied software diskette
- Configuring System Parameters
- How to use your diagnostic software
- How to restore your hard disk drive software using the supplied backup CD-ROM
- Other device drivers
- How to get updates

Factory Installed Software

The following table describes the software installed on your hard disk drive:

Software	Description
Operating system	Either Windows NT or Windows 95. Associated on-line documentation is included with the operating system.
DIGITAL supplied on-line documentation.	See "DIGITAL On-Line Documentation."
Application software	See "Applications."
Device drivers	These can include drivers, such as video, mouse, and IDE, that you need for your computer. Some configurations also include audio, network, CD-ROM, or SCSI drivers

DIGITAL On-Line Documentation

DIGITAL provides an on-line resource library for all available product information. The resource library includes Windows-based help files, electronic reference guides, and Readme files. Electronic reference guides are available in Adobe Portable Document Format (PDF). These documents can be displayed and printed exactly as the original. The Adobe Acrobat Reader is pre-installed on your hard disk drive. If the PDF files installed on the computer aren't in your language, check the System Software CD-ROM. Translated versions of the referenced PDF files may be located there.

The following table lists the on-line documentation available for your computer. These files are located in the DIGITAL program group or DIGITAL folder.

On-Line Documentation	Description
<i>System Reference</i>	The on-line System Reference guide describes how to operate, upgrade, and configure your computer. You can view and print the guide using the Adobe Acrobat Reader.
Using Your Computer	Windows-based on-line help file that describes your computer's features.
README.TXT	README.TXT files help you set up, operate, and configure your computer. Digital recommends that you read this information first.

There are other on-line documentation files available. Many of these relate to specific applications. Check the application program folder. Also check the applications themselves for the on-line help that is integrated into the applications.

Applications

DIGITAL's factory installed software includes several applications designed to make your computer easier to use. The following tables list the software that is available for your computer. Included in the table is information on where to locate the listed items and a brief description. Note that Windows 95 and Windows NT instructions all begin from Start in the Task Bar.

DIGITAL PC 3100, 5100, 5500

Applications	Location	Description
ClientWORKS	Select Programs, then ClientWORKS.	ClientWORKS is DIGITAL's client management software designed to help network administrators lower the total cost of ownership by automating asset management tasks and managing computers remotely.
Remote Network Wake-up DIGITAL PC 5100 only)	Loaded and transparent to user.	Software that allows easy system management of networked client computers, even if the system power switch is turned off. Also provides greater system protection against unauthorized network intrusion using SecureON and Magic Packet technology.
Diagnostics	Select Programs then AMI Diagnostics.	Diagnostic software that can help troubleshoot your computer. Also, diagnostic diskette images have been provided with your computer. These can be used to troubleshoot your computer if you are unable to access the software through Windows 95 or Windows NT. DIGITAL recommends that you create these diskettes as soon as possible. For instructions, see the CD-INFO.TXT file on the System Software CD-ROM.
PC Care (Windows 95 only; DIGITAL PC 5100 only)	Select Programs, then PC Care.	PC Care is a diagnostic, computer information, and computer optimization tool. (See "Using Diagnostics.")

continued

Applications	Location	Description
S.M.A.R.T. Monitor (Windows 95, DIGITAL PC 3100/5100 only)	Loaded automatically in Startup. Click on the icon in the tool bar to view S.M.A.R.T. information	If your computer's hard disk drive is S.M.A.R.T. aware, DIGITAL's S.M.A.R.T. Monitor will keep you apprised as to how your hard disk drive is operating.
Power Management	Select Programs, DIGITAL, and then Power Management Utility.	DIGITAL's Power Management technology enables you to reduce your computer's power consumption during computer inactivity. The power management software allows you to set your computer's power management features. Alternatively, power management features can be set in BIOS Setup.
Alta Vista Personal Search (DIGITAL PC 5100 only)	Located on System Software CD. For installation instructions, see CD-INFO.TXT on the CD.	DIGITAL's powerful and comprehensive Internet search engine.
Desktop Wellness	Select Programs, DIGITAL, and then Desktop Wellness.	A tutorial that contains ergonomic information to assist you to work comfortably. This tutorial can be used to find aspects of your tasks and work environment that can be adjusted to suit your needs.
Audio Applications (only available on some models)	Select Programs then Audio Applications.	The Audio Applications software allows those with onboard integrated audio to take advantage of their computer's audio capabilities. These utilities provide the convenience of having the controls all in one place.
Video Utilities	Select the Control Panel and then Display	These include utilities such as Matrox MGA or the S3 Refresh, whichever is applicable to your computer. Refresh utilities allows you to set the refresh rate of the display.
Adobe Acrobat Reader	Select Programs then Adobe Acrobat.	The Adobe Acrobat Reader software allows you to read and print electronic documents.

Celebris/Venturis FX and DIGITAL PC 3400, 5400

Applications	Location	Description
ClientWORKS	Select Programs, then ClientWORKS.	ClientWORKS is DIGITAL's client management software designed to help network administrators lower the total cost of ownership by automating asset management tasks and managing computers remotely.
Diagnostics	Select Programs then AMI Diagnostics.	Diagnostic software that can help troubleshoot your computer. Also, diagnostic diskette images have been provided with your computer. These can be used to troubleshoot your computer if you are unable to access the software through Windows 95 or Windows NT. DIGITAL recommends that you create these diskettes as soon as possible. For instructions, see the CD-INFO.TXT file on the System Software CD-ROM.
PC Care (Windows 95 only)	Select Programs, then PC Care.	PC Care is a diagnostic, computer information, and computer optimization tool. (See "Using Diagnostics.")
Power Management (Windows 95 only)	Select Programs, DIGITAL, and then Power Management Utility.	DIGITAL's Power Management technology enables you to reduce your computer's power consumption during computer inactivity. The power management software allows you to set your computer's power management features. Alternatively, power management features can be set in BIOS Setup.
Desktop Wellness	Select Programs, DIGITAL, and then Desktop Wellness.	A tutorial that contains ergonomic information to assist you to work comfortably. This tutorial can be used to find aspects of your tasks and work environment that can be adjusted to suit your needs.

continued

Applications	Location	Description
Easy Network (Windows 95 only; Celebris FX or DIGITAL PC 5400 only)	Select Programs, DIGITAL, then DIGITAL Easy Network	DIGITAL's Easy Network utility allows you to easily configure your computer on the network.
Audio Applications (only available on some models)	Select Programs then Audio Applications.	The Audio Applications software allows those with onboard integrated audio to take advantage of their computer's audio capabilities. These utilities provide the convenience of having the controls all in one place.
Video Utilities	Select the Control Panel and then Display	These include utilities such as Matrox MGA or the S3 Refresh, whichever is applicable to your computer. Refresh utilities allows you to set the refresh rate of the display.
Netscape Navigator (Celebris FX or DIGITAL PC 5400 only)	Select Programs, then Netscape.	Netscape Navigator software is used for accessing information on the World Wide Web.
Adobe Acrobat Reader	Select Programs then Adobe Acrobat.	The Adobe Acrobat Reader software allows you to read and print electronic documents.

Integrated Desktop Manageability

ClientWORKS

ClientWORKS, DIGITAL's client management software, contains a powerful set of utilities designed to help you get the most out of your networking environment. Based on the desktop Management Interface (DMI) industry-standard, ClientWORKS reduces total cost of ownership and makes DIGITAL PCs more manageable than the competition. Included, at no charge, on all new DIGITAL desktop computers, ClientWORKS saves MIS personnel time, reduces travel costs when diagnosing remote PCs, and improves accuracy of analysis of clients on the network.

ClientWORKS includes:

- Enhanced 32-bit DMI service layers for Windows 95 and Windows NT, and a 16-bit service layer for Windows for Workgroups.
- DIGITAL's enhanced system Management Information Format (MIF) file for industry-standard desktop management.
- Enhanced ClientWORKS browser, offering identification of DMI components, both locally and remotely.
- SNMP agent software, including a MIF-to-MIB converter for powerful remote management in heterogeneous environments.
- MIFMAKER, DIGITAL's unique utility designed to make DMI data available to Microsoft Systems Management Server (SMS).
- Diagnostics for enhanced system troubleshooting.

ClientWORKS comes factory-installed on your DIGITAL computer. ClientWORKS includes SNMP subagents that make your computer visible to an SNMP console. Although these subagents are pre-installed, they are disabled in the factory-installed software. Before you can enable the subagents, you must first install TCP/IP, which is part of Windows 95. To install TCP/IP, follow the Windows 95 help instructions for installing a network protocol. Once you have installed TCP/IP, you must install the Microsoft SNMP Master Agent. For installation instructions, refer to the ClientWORKS online help and user documentation.

For additional information, including last-minute release notes, please see the README.TXT and RELNOTES.TXT files in the ClientWORKS folder on your DIGITAL computer.

Remote Network Wake-Up

The DIGITAL PC 5100 features remote network wake-up technology that allows easy system management of networked client computers, even if the system power switch is turned off. Utilizing Magic Packet software, developed by AMD, the system hardware design provides standby power to the integrated network interface controller. The controller can then power on the system when it receives an authorized network wake-up signal.

Additional system security is provided by SecureON, a feature that provides greater system protection against unauthorized network intrusion by requiring a password for remote wake-up.

For more information, refer to your ClientWORKS and/or System Reference documentation.

Self Monitoring Analysis Technology (S.M.A.R.T.)

If your DIGITAL PC 5100's hard disk drive is S.M.A.R.T. aware and you are running Windows 95, DIGITAL S.M.A.R.T. Monitor will keep you apprised as to how your hard disk drive is operating. S.M.A.R.T. Monitor is launched when Windows 95 starts and then immediately minimized, the icon placed in the toolbar. The S.M.A.R.T. aware drive is periodically polled to monitor the performance of the motors, media, heads, and electronics of the drive. If problems are detected, you will be notified and advised to take appropriate action. By clicking on the icon at any time, you can review the status and history of any S.M.A.R.T. devices. You can also modify the setup of DIGITAL S.M.A.R.T. Monitor.

For more information, refer to your ClientWORKS and/or System Reference documentation.

Operating System Kit

Your computer comes with an operating system kit, which matches the operating system installed on your computer's hard disk drive. You receive one of the following:

<i>Windows 95</i>	Windows 95 CD-ROM, software license, and the manual. <i>Introducing Microsoft Windows 95</i> describes how to use the Windows 95 operating system.
<i>Windows NT Workstation</i>	Windows NT Workstation: CD-ROM, setup diskettes, software license. <i>Microsoft Windows NT Installation Guide</i> and other documentation. <i>Microsoft Windows NT Installation Guide</i> describes how to install and use Windows NT, including information about additional networking services that you can install.

The CD-ROM and setup diskettes are for restoring your operating system. Be sure to put them away in a safe place.

System Software CD and Supplied Diskettes

Included in your accessories are a System Software CD-ROM and a DIGITAL Startup diskette. These are described in the following table:

<i>System Software CD-ROM</i>	This CD-ROM contains the applications, utilities, device drivers, and on-line documentation necessary to restore your computer. This disc does not contain the operating system. See CD-INFO.TXT on the CD-ROM for non-operating system installation and configuration information.
<i>DIGITAL Startup diskette</i>	Use this diskette to boot the computer and access the CD-ROM drive to install the operating system and software applications in the event of a hard disk failure.
<i>Diagnostic diskettes</i>	Your DIGITAL System Software CD-ROM includes the disk images for Diagnostics diskettes. DIGITAL recommends that you create Diagnostic diskettes as soon as possible. In the event that your computer fails to boot, you can use these diskettes to access the hard disk drive and troubleshoot the problem. <i>For details on creating these diskettes, see the CD-INFO.TXT file on the System Software CD.</i>
<i>ISA Configuration Utility (ICU) (for non-Plug and Play operating systems, such as Windows NT Workstation only)</i>	Use the ICU to configure ISA non-Plug and Play or legacy expansion boards for operation in your Windows NT Workstation computer. You should run the ICU before installing non-Plug and Play ISA expansion boards or legacy boards to determine what computer resources are available. (See "Configuring Additional Hardware.")
<i>SCSI Adaptec Drivers (only for DIGITAL PC 5400 systems with onboard SCSI controllers and Windows NT Workstation installed)</i>	Use the SCSI drivers to configure your SCSI devices for Windows NT Workstation.

Configuring System Parameters

Although your computer is operation ready, you may need to change the video configuration or configure a network. You may also want to add some additional hardware. The available software can help you with these tasks as explained in the following subsections.

Configuring Video

The DIGITAL PC 3100 and DIGITAL PC 5100 computer systems support Display Data Channel (DDC 1/2b) specifications. DDC technology offers true Plug and Play auto-configuration by providing for direct communication between the monitor, video controller, and the operating system. Full DDC capability requires DDC support by all system components. DDC will automatically set the video parameters for optimum monitor resolution. If your monitor does not include DDC support, then you may need to change the default video settings.

If you need to change the default settings, The Control Panel Display option can be used in most cases. Utilities such as Matrox MGA or S3 Refresh, whichever is applicable to your computer, work with Windows 95 or Windows NT Display selections to set the video controller monitor refresh rates. These utilities have been pre-installed on your computer and configured at the factory to meet most monitor resolution needs. In most cases you will never need to use these refresh utilities.

Refer to the Windows 95 User's Guide or the Windows NT Workstation Installation Guide and any related on-line help for configuration information.

Before changing the resolution or resetting your monitor type, please check your monitor documentation. You must make your selections based on what your monitor can support. Choosing one of the Factory Preset Resolutions listed in your monitor manual allows you to change the resolution without having to adjust the monitor.

Configuring Networking

If your computer has onboard network, configuration information is available to you on the System Software CD-ROM.

Check the root directory on the System Software CD-ROM for the CD-INFO.TXT file. Read this file first for configuration and installation information.

If you are running Windows 95 on your Celebris FX or DIGITAL PC 5400 computer, the Easy Network application comes factory-installed and can help you configure your computer on the network. It can also help you configure your computer to use either Microsoft Internet Explorer or Netscape Navigator as your Internet browser.

Configuring Additional Hardware

Adding additional hardware requires configuring your computer resources, such as IRQ and DMA settings. With a Plug and Play operating system, such as Windows 95, and Plug and Play hardware, the process is simplified. Windows 95 can automatically determine the appropriate resource settings and then set them.

Some boards are not Plug and Play. These are known as "legacy" boards. Windows 95 can also handle these.

See your Microsoft Windows 95 documentation for information on configuring new hardware.

Other operating systems, such as Windows NT Workstation, require that you select and set the configurations. The ICU diskette can help you determine the available resources. Before installing the new board, insert the diskette into drive A and power on your computer.

See the ICU on-line help for complete instructions.

Using Diagnostics

There are a variety of software diagnostic products provided with your DIGITAL computer. If you are using Windows 95, the PC Care diagnostic software is factory-installed (except for DIGITAL PC 3100). You can use this software to troubleshoot your computer. From the Windows Programs menu, select PC Care.

If you are a Window NT Workstation user, your factory installed software includes Windows NT Diagnostics. You can use this software to troubleshoot your computer by choosing Administrative Tools from the Programs menu and then selecting the Windows NT icon.

Both Windows 95 and Windows NT users also receive diagnostic diskette images on the System Software CD-ROM. DIGITAL recommends that you create these diskettes as soon as possible (for instructions on this, see the CD-INFO.TXT file on the CD-ROM).

Once created these diskettes can be used to examine the computer's current configuration, locate faulty components, and troubleshoot problems. If the hard disk drive fails to boot or you are unable to access the diagnostic software from Windows 95 or Windows NT Workstation, proceed as follows:

1. Insert the diagnostics diskette labeled "For Emergency Use" into your diskette drive and power on your computer:
2. Once the program begins, follow the instructions displayed on your monitor screen.

Windows 95 users may also want to install the diagnostic software on their hard disk drive.

See the Readme.txt file on each of the Diagnostics diskettes for installation instructions and for additional information about the Diagnostics package.

Restoring Your Software

In the event of a hard disk failure or if your computer software becomes corrupted, you need to reinstall your operating system, device drivers, and any other utilities or applications. At other times you may only need to replace a driver or an application that was accidentally deleted or corrupted.

Before you begin the installation, make sure you have the operating system kit supplied with your computer, the System Software CD-ROM, and any other applications you may have installed on your computer.

The following instructions are for a complete restoration of your computer software.

1. If possible, back up data and any applications.
2. Reformat the hard disk drive, if necessary. You need to reformat your hard disk drive if it completely failed or if you replaced it with a new one.
3. Install the operating system.

Refer to the supplied Windows 95 and Windows NT Workstation documentation for additional information.

4. Install the necessary device drivers.

Refer to the CD-INFO.TXT file on the System Software CD-ROM for installation and configuration information.



NOTE: Device drivers are often subject to change. You can find the latest device drivers using the Internet or through DIGITAL's Bulletin Board service (See "Latest Product Information and Update").

5. Install the DIGITAL supplied applications, such as ClientWORKS.

These applications are located on the System Software CD-ROM.

6. Install your applications.

If you only need to reinstall a device driver or an application, you can do by following step 4 or 5, whichever is relevant.

Additional Device Drivers

Most of the device drivers you need are installed at the factory.

However, you may need to install additional device drivers for options that were not factory installed. DIGITAL provides all the factory-installed device drivers and additional device drivers on the supplied CD-ROM. Network, IDE, audio, CD-ROM, and video device drivers are some of the drivers available for the following operating systems:

- Windows 95
- Window NT
- Windows for Workgroups
- OS/2
- SCO UNIX
- Novell NetWare



NOTE: Not all device drivers on the CD-ROM are supported by DIGITAL. These device drivers are supplied for your convenience only.

Check the root directory on the System Software CD-ROM for the CD-INFO.TXT file. Read this file first for configuration and installation information.

Latest Product Information and Updates

You can access product information and download the latest BIOS, device drivers, and software updates using the Internet at:

<http://www.windows.digital.com>

1. To get to the file library, choose **Service & Support**.
2. At the next screen, under **Firmware & Drivers**, select the Intel-based System Library.
3. Choose the correct DIGITAL PC model from the displayed list.
4. From the file list, choose the file to download.

You can also access software updates through DIGITAL's Bulletin Board Service (BBS) by calling:

In the United States: (508) 496-8800

In Europe: +33 92 96 03 12