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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC VERSA 6060. You'll find the answers to all your questions on the NEC VERSA 6060 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC VERSA 6060
User guide NEC VERSA 6060
Operating instructions NEC VERSA 6060
Instructions for use NEC VERSA 6060
Instruction manual NEC VERSA 6060

NEC Computer Systems Division,
A Division of Packard Bell NEC, Inc.

DECLARATION OF CONFORMITY

We, the Responsible Party

NEC Computer Systems Division
Packard Bell NEC, Inc.
1414 Massachusetts Avenue
Boxboro, MA 01719
(508) 264-8000

declare that the product

NEC V6060 Series

is in conformity with part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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Manual abstract:

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First Printing -- July 1997 Copyright 1997 NEC Computer Systems Division, Packard Bell NEC, Inc. 1414 Massachusetts Avenue Boxborough, MA 01719 All Rights Reserved Using this Guide The NEC Versa 6060 User's Guide gives you the information you need to maximize the use of your NEC Versa notebook computer. Read this guide to familiarize yourself with your NEC Versa and its features. For specific information see @ T T T T T T T T T T TEXT SETUP Chapter 1, "Getting Started," to acquaint yourself with system hardware. Chapter 2, "Introducing the Software," for a concise summary of the applications loaded on your system.

Chapter 3, "Using Setup," to customize your notebook's parameter and power management settings. Chapter 4, "Using Your NEC Versa," for an understanding of system features and functionality. You'll also master procedures for connecting external options like headphone, microphone or speakers. Chapter 5, "Using Multimedia," for steps on integrating video and sound clips into impressive presentations. Chapter 6, "Traveling with Your NEC Versa," lists valuable tips for getting the most out of your system while on the road.

Chapter 7, "Solving Problems," provides simple solutions to common problems that may arise while operating your notebook. Appendix A, "Setting Up a Healthy Work Environment," provides guidelines to help promote a healthy work setting. Appendix B, "Specifications," to review NEC Versa system specifications. To make this guide as easy to use as possible, text is set up in the following ways. T Warnings, cautions, and notes have the following format: Using this Guide ix ! WARNING Warnings alert you to situations that could result in serious personal injury or loss of life. ! CAUTION Cautions indicate situations that can damage the system hardware or software. Notes give particularly important information about whatever is being described. NOTE T T Names of keys are printed as they appear on the keyboard, for example, Ctrl, Alt, or Enter. Text that you must type or keys that you must press are presented in bold type. For example, type dir and press Enter.

RELATED DOCUMENTS See the following documents for additional information on your NEC Versa 6060 notebook computer: T T Your NEC Versa 6060 Quick Setup sheet. Your NEC Versa 6060 Quick Reference card. x Using this Guide Contents Using this Guide Text Setup.....

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A-5 B Specifications Glossary Index Contents vii 1 Getting Started ! WARNING Prolonged or improper use of a computer workstation may pose a risk of serious injury. To reduce your risk of injury, set up and use your computer in the manner described in Appendix A. After completing the steps in the quick setup sheet that comes with your computer, your NEC Versa is ready to go! To get started, look at the following: T Read Appendix A, Setting Up a Healthy Work Environment, for guidelines that help you use your computer productively and safely. Information includes how to set up and use your computer to reduce your risk of developing nerve, muscle, or tendon disorders.



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Take the online System Tour to get acquainted with your NEC Versa.

(The System Tour is in the Windows NEC Information group under the NEC Versa 6060 Help Center.) View the online system The Basics. (The Basics is in the Windows NEC Information group under the NEC Versa 6060 Help Center.) Read this guide to familiarize yourself with the NEC Versa. T T T Getting Started 1-1 GETTING TO KNOW YOUR NEC VERSA SYSTEM The NEC Versa 6060 Series notebook computer offers you a portable system filled with exciting resources for home, business or travel.

Standard features include a powerful Intel® Pentium 166 MMXTM microprocessor that works together with the latest Peripheral Component Interconnect (PCI) architecture. Your NEC Versa 6060 model integrates Intel's MultiMedia Extensions (MMX) technology. MMX speeds audio, video, and 3D graphics processing, ultimately providing more distinct sound and visuals for your presentations. More advantages include increased floating-point performance, and a more efficient bus. In addition, your system provides a high-performance hard disk drive, diskette drive or VersaBay II SuperDisk LS-120 drive, interchangeable 20X CD-ROM reader and Personal Computer Memory Card International Association (PCMCIA also known as PC card) support. As a multimedia system, your NEC Versa also provides the tools needed to create and present impressive images using video clips and sound. To get comfortable with your notebook, read the following sections and take a tour around your system! NEC Versa 6060 notebook computer 1-2 Getting Started Around the System -- Front The NEC Versa is compact with features on every side. First, look at the front of your NEC Versa system. The following sections describe front features, beginning with the Liquid Crystal Display (LCD) panel (the screen area). LCD features LCD Your NEC Versa system comes with a color LCD that you can adjust for a comfortable viewing position.

The LCD is a 12.1-inch Thin Film Transistor (TFT), Super Video Graphics Array (SVGA) display. Additional LCD panel features include: T T Built-in Stereo Speakers -- provide stereo sound for your multimedia presentations, or listening pleasure. Brightness Control -- a slide switch that adjusts screen brightness. Moving the switch up increases the screen contrast. Getting Started 1-3 Controls NEC Versa system controls are shown in the following figure. These features are described after the figure. Controls T T LCD Status Bar -- A liquid crystal status bar that keeps you informed of your NEC Versa's current operating status. See a description of icons in the following section. Power LED Lights green when the system is powered on.

Blinks green when the system is in Suspend mode. Blinks amber to indicate that battery power is low. T Suspend/Resume (S/R) Button -- press the S/R button to put the unit into Suspend mode when you need to be away from your system for a short period of time and want to return to where you left off. Press the S/R button again to bring your NEC Versa system out of Suspend mode and back to where you were before entering Suspend. Specifically, Suspend mode shuts down all devices in the system while retaining data and system status.

You will find more detailed information on using Suspend mode in your online NEC Versa 6060 Help Center. T 1-4 Getting Started Power Button -- slide the power button to the right to power on and power off the computer. The power button is a "smart" switch, meaning that it recognizes when the system is in Suspend mode. If in Suspend mode, you cannot power off the system until you press the suspend button again to bring it out of Suspend mode. Status Icons Your NEC Versa system uses an LCD status bar for communicating operating status via ten status icons.

See the following figure and list for each icon's meaning. Reviewing status icons T T T Suspend -- appears when the system is in Suspend mode. Suspend mode conserves system power by shutting down all devices in the system while retaining data and system status. Power Management -- shows the current power management mode in use, including Off, Custom, High Performance, or Longest Life. Diskette Drive -- appears when your NEC Versa writes data to or retrieves data from a diskette drive or VersaBay II SuperDisk LS-120 drive. Getting Started 1-5 T T T T T T Hard Disk -- shows when your NEC Versa writes data to or retrieves data from the hard disk. Caps Lock -- appears when Caps Lock is in effect. Scroll Lock -- shows that Scroll Lock is in effect. Num Lock -- appears when Number Lock mode is active. Battery Status -- displays the percentage of battery power available.

Battery 1 appears when you have one or more batteries installed. Battery 2 appears when you have an optional battery installed in the VersaBay II. See "Optional Second Battery," later in this chapter for more information. Keyboard The NEC Versa keyboard uses 83 keys (79 keys for international systems), with the standard QWERTY-key layout. See Chapter 4, "Using the Keyboard" for complete details. You can also refer to the online information in the NEC Versa 6060 Help Center. NEC VersaGlide The NEC VersaGlide works like a standard computer mouse. Simply move your fingertip over the VersaGlide to control the position of the cursor. Use the selection buttons below the VersaGlide to select menu items, or use the advanced tapping features. More detailed VersaGlide information appears in Chapter 4, "Using Your NEC Versa."

" 1-6 Getting Started NEC VersaGlide Diskette Drive, CD-ROM Reader and the NEC VersaBay IITM A diskette drive or NEC Versa SuperDisk LS-120 drive comes installed in the NEC VersaBay II on the front of your system, depending on the NEC Versa model purchased. You can use this device, or remove it from the VersaBay II and replace it with the 20X CD-ROM reader that also ships with your system. It's your choice! The VersaBay II lets you add options, including a second Li-Ion battery, or an additional hard disk drive, see "Customizing Your System with the VersaBay II," in Chapter 4. ! WARNING Remember to power off or suspend your system before installing an option. Hot swapping is not supported, although warm swapping (Windows 95) is supported and when swapping the CD-ROM reader, diskette drive or Super Disk LS-120 drive.

Getting Started 1-7 Keyboard area IR Port and Microphone You will find an IR port for connecting your NEC Versa system to external devices (like printers, other computers and any device that supports IR technology) and a built in microphone for recording with your NEC Versa. For an understanding of each feature, see the descriptions that follow the figure. T Built-in Microphone -- allows you to record monophonic sound directly into your notebook computer. You do not have to speak directly into the microphone. Feel free to speak into the microphone at a comfortable distance.



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1-8 Getting Started T Infrared Port -- This port lets you transfer files between your NEC Versa and an IR-equipped desktop or notebook computer. You can also print to an IR-equipped printer without using cables. Your NEC Versa will support either FIR (Windows 95 only), MIR or SIR transfer rates. IR Port and Built-in Microphone Getting Started 1-9 **AROUND THE SYSTEM** -- **BACK** You'll find system ports for connecting your NEC Versa system to optional devices (like a printer, docking station, or external monitor) on to the back of your NEC Versa. For an understanding of each feature, see the descriptions that follow the figure. Back system features **T Keyboard/Mouse Port** -- Use the standard PS/2 port to connect an external PS/2-style mouse or a PS/2-style keyboard to the system. With an optional Y-adapter, you can connect both a mouse and a keyboard at the same time. **Parallel Port** -- Use this port to connect a parallel printer or other parallel device. The port is an Extended Capabilities Port (ECP). The ECP standard provides you with a greater processing speed than the conventional parallel port.

It also supports bi-directional and unidirectional and Enhanced Parallel Port (EPP). **Expansion Port** -- This port provides a connection for NEC Versa options including the NEC PortBar 6000, NEC Versa Docking Station 6000 Plus, NEC Versa MiniDock 6000 and floppy adapter. **T T 1-10 Getting Started T Monitor (Video) Port** -- Use this 15-pin port to attach an external monitor to your NEC Versa. You can run the LCD display and the external monitor simultaneously or run either alone. **Serial Port** -- Use this port to connect an external modem or other serial device. This port does not support serial pointing devices. **AROUND THE SYSTEM** -- **LEFT SIDE** The left side of your NEC Versa has two slots for inserting two Type II PC cards (formerly called PCMCIA cards). You can also insert one Type III PC card. The battery bay cover release is also located on the left side of the unit. The battery bay contains a Lithium Ion (Li-Ion) battery that lets you run your system on DC power.

Left side features Getting Started 1-11 AROUND THE SYSTEM -- **RIGHT SIDE** The hard disk drive cover release, Kensington lock socket, audio ports, USB port, fan exhaust port and AC power port are located on the right-side of your NEC Versa system. For an understanding of each feature, see the descriptions that follow the figure. Right side features **T T T T T Volume Control** -- Allows you to control the speaker volume. **Headphones/Line-Out** -- Lets you connect external headphones, speakers or audio system to your NEC Versa system. Using this port disables the built-in system speakers.

Line-In -- Lets you use another audio system, like a home stereo, as an input source. Use a the cable to connect to the Line-Out port on the other audio system to record or play. **Microphone (MIC)** -- Allows you to connect an external microphone for monophonic recording or amplification through the unit. Plugging in an external microphone disables the built-in microphone. **Hard Disk Drive Bay Cover** -- The hard disk drive bay contains the removable hard disk drive. Depending on your NEC Versa's configuration, it contains a 2.1-GB hard disk drive or 3.2-GB hard disk drive. **1-12 Getting Started Refer to the "Hard Disk" section in Chapter 4 for installation and removal instructions.** **T T T T Kensington Lock** -- Lets you provide added security by installing an optional Kensington Lock. **USB Port** -- The Universal Serial Bus (USB) allows the connection of up to 127 peripheral devices (printers, monitors, scanners, etc.) to your NEC Versa. **Fan Exhaust Port** -- This port provides air flow from the interior of the computer to assist in keeping the system running at optimal performance. **AC Power Port** -- Use the power jack to attach the NEC Versa to a DC power source, such as the AC adapter or the optional DC car adapter. **Getting Started 1-13 AROUND THE SYSTEM** -- **BOTTOM** The bottom of the NEC Versa system contains the features shown.

For an understanding of each feature, see the descriptions that follow the figure. **Bottom features T Hard Disk Drive Bay** -- Contains the system's standard hard disk drive. Also, if you remove the hard disk drive, you'll see two connectors for installing one additional memory module. The hard disk drive bay also contains six dip switch settings. These are explained in Chapter 4, "Using Your NEC Versa." **NEC VersaBay II Release Latches** -- These latches let you remove the option currently installed in the bay. **Battery Bay** -- Contains the system's main battery. It is a removable Lithium Ion (Li-Ion) battery. **T T 1-14**

Getting Started POWER SOURCES FOR YOUR NEC VERSA Your NEC Versa can be powered using three different sources, making it a truly portable system. Operate your NEC Versa system just about anywhere using one of the following power sources: **T T T the AC adapter** connected to an electrical wall outlet (using AC power) the battery pack or an optional second battery pack the optional DC adapter connected to a car cigarette lighter.

Read the following sections for specific steps on powering on the system. Using the AC Adapter Use the AC adapter and power cable that came with your NEC Versa to run your computer on AC power, or to recharge the battery pack. Use the AC adapter whenever a wall outlet is nearby. Keep the adapter connected whenever possible. The AC adapter charges the battery whether or not you are using your NEC Versa.

NEC Versa 6060 AC adapter ! CAUTION Do not cover or place objects on the AC adapter. Doing so will not allow heat to dissipate properly. **Getting Started 1-15** Check that the AC outlet voltage falls in the range of 100-240 Volts AC. Verify that the cord and plug are appropriate for your AC source. **NOTE** Connect the AC adapter as follows: 1.

Connect the AC adapter cable to the power port on the right side of your NEC Versa system. 2. Plug one end of the AC power cable into the AC adapter and the other end into a properly grounded 120- or 240-volt wall outlet. The AC power cable type that your system uses depends on the country you're using it in.

Contact the local dealer to purchase the correct power cable. **NOTE** Connecting the AC adapter 1-16 **Getting Started Powering On Power** on the system as follows. 1. Locate the latch on the front of the LCD panel, press the latch up, and raise the panel. 2. Locate the power button and slide it to the right to turn on system power.

Powering on the system Using the Main Battery Pack Your NEC Versa system comes with a rechargeable Lithium Ion (Li-Ion) battery pack. You can run your system on battery power for approximately one to three hours with power management features enabled. It's easy to install and remove. Your NEC Versa system integrates status icons in the LCD Status Bar that appear in the window panel located above your keyboard.



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Two battery icons display to help you keep track of the main battery (or second battery if installed) power level. See the "Status Icons" section earlier in this chapter for a description of the battery icons. Both let you know how much battery power remains. When battery power is very low, the power LED flashes amber. Getting Started 1-17 When battery power gets low, do either of the following: T T Press the suspend button to put your system in Suspend mode, remove the battery pack, and replace it with a fully charged Li-Ion battery. Leave the battery pack in the system and connect your NEC Versa to the AC adapter and a wall outlet.

The battery recharges in approximately 2 hours. You can also buy an optional NEC Versa battery charger to quickly charge your battery. See the online NEC Versa Accessories and Solutions Catalog. Use only the NEC battery charger designed for your NEC Versa battery type. Different NEC Versa models require different batteries and battery chargers.

NOTE ! WARNING To prevent accidental battery ignition or explosion, adhere to the following: T Keep the battery away from extreme heat. T Keep metal objects away from the battery terminals to prevent causing a short circuit. T Make sure the battery is properly installed in the battery bay. T Read the precautions printed on the battery and in the online The Basics. Determining Battery Status You can determine battery status via the battery icon in the status bar discussed earlier in this chapter.

If you have one battery pack installed, one battery icon appears. If you have two batteries installed, two battery icons appear. 1-18 Getting Started A blinking battery icon indicates that the battery is charging. A fast blinking battery icon occurs: T T T T T T when installing a new battery during unknown battery status when there is a problem with the battery. To return the battery to its normal state, try the following: remove and then reinstall the battery reinstall the battery in your NEC Versa and fully recharge the battery (to 100%). The battery percentage icon blinks under the following conditions: when battery power is low, the number icon blinks, if battery power is extremely low, the number icon blinks rapidly. When to Replace the Battery The following symptoms indicate that battery life is nearing an end. Replace batteries that display these symptoms: T T T T shorter work times discoloration, warping hot to the touch strange odor. Battery Handling Keep the following in mind when removing or replacing a battery. T T T Use Li-Ion batteries only in the NEC Versa computer for which they are designed.

Use only the Li-Ion battery designed for your system in the NEC Versa. Mixing other manufacturer's batteries, or using a combination of very old and new batteries can deteriorate battery and equipment performance. Turn off power to the system after use. Keeping system power on can degrade battery performance and shorten battery life. Getting Started 1-19 T T Clean the battery terminals with a dry cloth when they get dirty. Keep the battery out of the reach of children. Replacing the Battery Pack Replace the battery pack installed in your NEC Versa system as follows. Use Li-Ion batteries in the NEC Versa computer for which they are designed. Installing another manufacturer's battery, or using a combination of very old and new batteries can deteriorate battery and equipment performance. NOTE 1.

Save your files, exit Windows, and press the Suspend button or turn off system power. 2. Close the LCD Panel and turn the system over. 3. Release the battery cover latch and slide the battery bay cover away from the system.

Removing the cover 1-20 Getting Started 4. Place a finger in the notch on the battery and lift the battery out of the system. ! WARNING Always lift the battery out of the system by the notch. Failure to do so can damage the battery terminals. Removing the battery Getting Started 1-21 5.

Insert the new battery as follows: T T T Locate the grooves on the end of the battery opposite the terminals. Align the grooves with the projections inside the battery bay. Lower the notched end of the battery into the battery compartment. Inserting the battery pack 6. Replace the battery bay cover as follows: T T Align the tabs on the bay cover with the grooves on the system chassis. Lower the cover onto the bay and slide it into place until the release latches lock. 1-22 Getting Started Replacing the cover 7. Turn the system over. Battery Precautions To prevent accidental battery ignition, rupture, or explosion, adhere to the following: ! WARNING To avoid personal injury and property damage, read these battery precautions on handling, charging, and disposing Li-Ion batteries. T T T T T Keep the battery away from heat sources including direct sunlight, open fires, microwave ovens, and high-voltage containers.

Temperatures over 140° F (60°C) may cause damage. Do not drop or impact the battery. Do not disassemble the battery. Do not solder the battery. Do not puncture the battery. Getting Started 1-23 T T T T T T Do not use a battery that appears damaged or deformed, has any rust on its casing, is discolored, overheats, or emits a foul odor. Keep the battery dry and away from water. Keep metal objects away from battery terminals. Metal objects in contact with the terminals can cause a short circuit and damage. If the battery leaks: If the battery leaks onto skin or clothing, wash the area immediately with clean water. Battery fluid can cause a skin rash and damage fabric. If battery fluid gets into eyes, DO NOT Rub; rinse with clear water immediately and consult a doctor. Take extra precautions to keep a leaking battery away from fire. There is a danger of ignition or explosion. Recharging Battery Precautions Adhere to the following precautions when recharging the Li-Ion battery.

T T T T Use only the NEC battery charger designed for your NEC Versa battery type. Different NEC Versa models require different batteries and battery chargers. Charge the battery for the specified charge time only. During charging, keep the environmental temperature between 32°F and 104°F (0°C to 40°C). Read the instructions that came with the battery charger before charging the battery.

Optional Second Battery You can add a second battery to boost the system's power level. You'll need to purchase the NEC VersaBay II Battery and Adapter Kit. See the online Versa Tools Catalog in the NEC Versa 6060 Help Center, or your authorized NEC dealer for details about the NEC VersaBay II Battery and Adapter Kit. 1-24 Getting Started The kit provides a Lithium-Ion (Li-Ion) battery and plastic adapter that installs in the VersaBay II. See "Installing a Device in the VersaBay II," in Chapter 4, for battery adapter installation instructions. Inserting a second fully charged battery increases battery life approximately 3 to 6 hours.



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Extending Battery Life You will find an extensive explanation of how best to apply the power management tools that your system offers within *Advanced Topics* in the NEC Versa 6060 Help Center. Other important topics to view in the online document include *Maximizing Battery Life*, *Battery Charging and Disposal*. Using the DC Car Adapter Another way to power your NEC Versa system is via car battery power using the optional DC car adapter. Connect your system to the optional DC car adapter as follows.

1. Disconnect the AC adapter from the system if connected. 2. Plug the appropriate end of the car DC adapter into the power port on the system. 3. Connect the plug of the DC car adapter to a car cigarette lighter. Connecting the car DC adapter
Getting Started 1-25 INTERNAL BATTERIES As you have seen, a Lithium Ion (Li-Ion) battery provides the main power source in your NEC Versa computer. See Appendix B for a list of Li-Ion battery specifications. In addition to this battery, the CMOS battery and bridge battery also provide system power. CMOS Battery This lithium battery provides battery backup and prevents data loss in the system's complementary metal oxide semiconductor (CMOS) RAM.

This memory area contains information on the system's configuration, for example date, time, drives, and memory. The CMOS battery lasts approximately two years. An authorized NEC service technician should replace the CMOS battery for you. Have your NEC Versa serviced by an NEC authorized service center. Call Customer Service at (800) 632-4525 for the dealer nearest you.

Bridge Battery The internal 7.2 volt bridge battery saves your system status in Suspend mode for up to five minutes. Suspend mode is a feature that halts all system operations temporarily when you need to be away from your NEC Versa for a short period. This gives you time to install a fully charged battery or plug in AC power when your battery charge becomes low. An authorized NEC service technician should replace the bridge battery for you.

Have your NEC Versa serviced by an NEC authorized service center. Call Customer Service at (800) 632-4525 for the dealer nearest you. **SYSTEM CARE** Your NEC Versa system is a durable, dependable system built for extensive use and travel. Follow these guidelines to maintain the condition and performance of your computer. *Precautions* Follow these precautions when using your NEC Versa computer, AC adapter, and VersaBay II. **T T 1-26 Getting Started** Avoid dropping or bumping the computer or the AC adapter. Do not stack any objects on the computer. **T T** Avoid moving your NEC Versa computer during system operation, especially while the hard disk or diskette drive is being accessed. When using the AC adapter, make sure the power source falls within the system's compatible range of 100240 volts AC. Never use the AC adapter if the voltage falls outside of this range.

(Watch for this when traveling to other countries.) Use of a surge suppressor while traveling is highly recommended. Turn computer power off before attaching or removing non-plug and play devices. Avoid using the computer or AC adapter for extended periods in direct sunlight. Avoid using the system in humid or dusty environments. Turn computer power off before cleaning it. Avoid exposing the NEC Versa computer or AC adapter to extreme changes in temperature or humidity. If it is unavoidable, allow your NEC Versa to adjust to room temperature before using. When cleaning the system, use a soft, clean, dry cloth. Avoid wiping the display surface with abrasive material, including rough fabric.

Do not use a cleaning solution, this may damage the notebook's plastic. If the AC adapter becomes extremely hot, unplug the adapter and let it cool. **T T T T T T T T** Storage Requirements Store the computer and AC adapter in an environment that meets the following conditions: **T** Maintain storage temperatures between 4°F and 104°F (20°C and 40°C). *Getting Started 1-27 ! CAUTION* If the temperature of the NEC Versa suddenly rises or falls (for example, when you move the system from a warm place to a cold place), vapor condenses inside the system. Turning on the system under this condition can damage the internal system components.

Before turning on the system, wait until the system's internal temperature equalizes with the new environment and any internal moisture can evaporate. **T T T** Keep the storage area free from vibration and magnetic fields. Keep the system and its components away from organic solvents or corrosive gases. Avoid leaving the system and its components in direct sunlight or near heat sources. *Routine Cleaning* Clean or dust your system as follows.

! CAUTION Never use harsh solutions, household cleaners, or spray cleaners that contain caustic materials on your NEC Versa computer. These cleaners are usually high in alkalinity which is measured in pH. Using these cleaners can cause the plastic surface to crack or discolor. **T T** LCD screen -- Carefully wipe the LCD screen with a soft cloth or a screen wipe designed for that purpose. Special screen wipes are available through your local computer dealer. *System case* -- Carefully wipe the case with a slightly damp, almost dry cloth. **1-28 Getting Started 2** *Introducing the Software* This chapter introduces you to the software* that comes with the NEC Versa 6060, including: **T T T** the Windows 95 operating system, the Windows NT 4.0 operating system or the Windows for Workgroups operating system with MS® DOS Online Help NEC Utilities Setup NEC Customize Utility HDPREPEZ Utility **T** Other Software Intel LANDesk Client Manager LapLink® McAfee VirusScan™ McAfee WebScan™ MediaMatics Arcade™ MPEG Player XingMPEG Player™ * The software listed here is current as of July 1997. The list is subject to change without notice. The software on your system is predicated by the operating system that shipped on your notebook computer.

Introducing the Software 2-1 WINDOWS INTRODUCTION Your NEC Versa 6060 was purchased with Windows 95, Windows NT or Windows for Workgroups as your operating system. These Microsoft operating systems provide a means of running applications, navigating through your file structure, and using your notebook computer. Each operating system offers its own look and tools. All these Microsoft Windows operating systems employ a graphical interface to make the operating systems easy to use. Windows 95 Windows 95 gives you the newest features offered by Microsoft, including a Desktop with room to maneuver, a Taskbar for quick navigation between open windows, plug and play features, online networking functions, and more. With Windows 95, the following icons are loaded on your desktop: **T T T T T T T T** My Computer -- provides access to drives, printers, the control panel, and network features. *Inbox* -- lets you access the Microsoft fax and mail software as well as Microsoft network services.



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Internet Explorer -- provides an Internet browser for those systems with Internet access via an optional modem or network PC card. Recycle Bin -- gives you a trash container in which to put unwanted files. Network Neighborhood-- shows you the network, integrated LANs, and WANs (if your system is connected to a network).

My Briefcase -- allows easy transfer of files between the NEC Versa 6060 and another system. Install Intel Client -- helps your manage your NEC Versa. NEC Customize -- installs NEC-designed desktop features, including custom wallpaper, the latest VersaGlide software controls, warn swap utility and the automatic running of McAfee AntiVirus software each time you boot. 2-2 Introducing the Software T T NEC Versa Online Help -- provides quick access to a variety of online topics. (In some countries, the system ships with an online user's guide instead of the NEC Versa Online Help.

) Start -- displays a pop-up menu with which to start programs and applications, open documents, access system settings, look at online help, and shut down your system. See the online Using Windows 95 in the NEC Versa 6060 InfoCenter group for detailed instructions on using Windows 95. Windows NT Windows NT 4.0 is the high-end member of the Windows operating system family. Windows NT provides all the benefits of the other Windows operating systems including a means of running your applications and navigating through your file structure in an easy-to-use graphical interface.

In addition, Windows NT extends these benefits with additional performance, security, and fault protection in a powerful platform of client-server computing. Windows NT allows you to run applications created specifically for Windows NT and Windows 95. You can also run applications created for other versions of Windows, MS-DOS®, and character-based MS® OS/2® 1.x as well as POSIX-compliant applications. Windows NT gives you the newest features offered by Microsoft, including a desktop with room to maneuver, a taskbar for quick navigation between open windows, and more. The following icons appear on the desktop. T T T T T My Computer -- provides access to drives, printers, the Control Panel, and network features. Network Neighborhood -- shows you the network, integrated LANs, and WANs. Inbox -- lets you access the Microsoft fax and mail software as well as Microsoft network services. Internet Explorer -- lets you browse Web pages on your local network and on the Internet.

Recycle Bin -- gives you a trash container in which to put unwanted files. Introducing the Software 2-3 T T Install Intel Client -- helps your manage your NEC Versa. My Briefcase -- allows easy transfer of files and data synchronization between your NEC Versa and another system. In addition, the Start button at the bottom left of the desktop displays a popup menu with which to start programs and applications, open documents, access system settings, look at online help, and shut down your system. For complete information on Windows NT, including features and step-bystep procedures for using tools, see the Microsoft Windows NT documentation provided with your notebook. If you are using Windows NT 4.0 Workstation and change the system configuration, you may need to run the Microsoft Windows NT 4.0 Workstation Service Pack. From the Windows NT 4.0 Workstation desktop, press Start, select Run.

... and type C:\sp3update.exe, click on OK. Follow the on screen instructions to complete the update.

NOTE Windows for Workgroups Windows for Workgroups offers the well-established Windows interface. Application icons are placed in groups, which are represented by group icons. To start an application, highlight and double click or double tap the application icon. The Program Manager contains the following groups. T T T T Main -- Includes programs and tools to help you control printing; set up printers, plotters, and modems; customize the desktop; and manage files.

Accessories -- Includes desktop programs that come with Windows, such as a simple word processing program, a drawing program, a calendar, and a calculator. Startup -- Lets you add programs to start automatically when you enter Windows. Games -- Gives you a way to practice your VersaGlide skills or just relax. 2-4 Introducing the Software T T Applications -- Includes any applications that Windows detects on your hard disk during installation. NEC Utilities -- Includes small programs written by NEC to help you manage your NEC Versa computer. See the online Windows QuickStart 3.11 for detailed instructions on using Windows for Workgroups. DOS INTRODUCTION MS-DOS is the Microsoft disk operating system that runs the computer when Windows for Workgroups is loaded. DOS uses commands that every personal computer user needs to know at least a little about. The Windows environment makes it possible for you to manage your system and application programs without knowing DOS commands, but as you become more comfortable with computers you may want to begin learning DOS.

For detailed instructions on how to use MS-DOS, refer to the online book MS-DOS 6.22 QuickStart in the NEC Versa InfoCenter program group. Guide to Online Help The NEC Versa 6060 has plenty of information for you online. The NEC Versa 6060 InfoCenter group contains information about your NEC Versa 6060, warranty coverage, and customer services. For Windows for Workgroups see the printed documentation provided with your system. NEC VERSA HELP CENTER The NEC Versa Help Center contains several specific areas of information to help you. Audio tracks and animated examples make this an exciting learning experience. (In some countries, the system ships with an online user's guide instead of the Help Center.) T System Tour The NEC Versa System Tour gives you a complete tour of the system, pointing out components, switches, software and utilities. Take the tour to become comfortable with your new NEC Versa 6060.

T The Basics The Basics describes the NEC Versa 6060 main features, how to travel with the system, use power management, and care for the system. Introducing the Software 2-5 T T T Advanced Topics Advanced Topics covers specific areas such as adding options, changing setup settings, and solving problems. Questions and Answers Questions and Answers provides frequently asked questions and answers about portable computers to help you solve common problems yourself. Versa Tools Catalog The Versa Tools Catalog lists options such as memory cards, hard drives, carrying cases, and PC cards that you can purchase for use with the NEC Versa 6060. T Service and Support Service and Support provides information on the extensive post sale support provided for your NEC Versa 6060.

The price information in the Versa Tools Catalog is only applicable for North America. NOTE Additional Online Topics In addition to the Help Center, your NEC Versa also contains the following online help. T Customer Support Guide The NEC Customer Support Guide discusses the various levels of support NEC offers you, our customer.



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We provide lots of information to help you become self-sufficient with your NEC Versa, but if you need help, we're there for you. If you purchased the computer outside the U.S., please contact a local NEC office or dealer for the warranty program in your area. T UltraCare Guide The NEC UltraCare Guide describes NEC's three-year warranty program to help you protect your investment in an NEC Versa Series computer. If you purchased the computer outside the U.S., please contact a local NEC office or dealer for the warranty program in your area. 2-6 Introducing the Software T Using Windows 95 This online help file lets you explore Windows 95 (if Windows 95 is installed) and learn about navigating through the new interface. GUIDE TO NEC UTILITIES NEC provides several programs and routines designed to make your NEC Versa 6060 run more efficiently. These programs are called utilities. Setup Utility The Setup utility automatically configures your NEC Versa each time you start it up.

This utility is not accessible from Windows. To view boot-up messages press ESC, press F2 to access Setup when the NEC screen displays the following prompt at boot-up: Press <Esc> for Boot Messages, F2 for Setup See Chapter 3, "Using Setup," and Advanced Topics for a discussion of the Setup utility. In addition, online help assists you in making appropriate settings. NEC Customize Utility In Windows 95 systems, the NEC Customize utility installs NEC-designed desktop features, including custom wallpaper, the latest VersaGlide software controls, and the automatic running of McAfee AntiVirus software each time you boot. HDPREPEZ Utility NEC provides the HDPREPEZ utility to automatically configure your NEC Versa system hard disk space when you increase system memory. OTHER SOFTWARE Your NEC Versa 6060 comes with other programs that let you take full advantage of your system resources.

The rest of this chapter discusses each program, including what it can do for you, how to get started, and how to use the program help. Introducing the Software 2-7 Client Manager Client Manager provides the capability for managing components in your NEC Versa computer. These components include network interface cards, memory, printers, software applications etc. Client Manager provides you with self-help diagnostics, including a PC health meter, local alerting of potential problems and hardware and software inventory.

(Windows 95 and Windows NT) Install Client by double clicking on the Install Intel Client icon on the Desktop screen. On screen instructions will guide you through the installation procedure. Explore the features of LANdesk as follows: 1. Press Start, slide the cursor over to Programs, and locate LANdesk Client Manager folder. In the folder, highlight the LANdesk Client Manager line and press the VersaGlide selection button or tap the VersaGlide pad once. 2. Highlight HELP, press the VersaGlide selection button or tap the VersaGlide pad once. 3. Highlight Contents, press the VersaGlide selection button or tap the VersaGlide pad once. 4.

This section introduces and guides you through the capabilities, features and instructions on using LANdesk Client Manager. LapLink LapLink helps you stay in touch with your home office system or get in touch with other systems through infrared port, modem, network, or cable. Use LapLink to transfer files, gain access to files on a remote system, or exchange written information with another user on a remote system. LapLink even bridges the communication gap between Windows for Workgroups 3.11 and Windows 95 systems. LapLink offers the following features: T File Transfer -- lets you move or copy files between computers. To speed file transfer, LapLink compares files being updated and transfers only the changed information. 2-8 Introducing the Software T Remote Control -- gives you access and control over a remote computer. Activity you perform on a local system, such as keystrokes, file access and change, and program execution, actually occurs on the remote system. Chat -- provides a way for you to exchange information, instructions, or other messages with a user at a remote computer.

T LapLink software must be loaded on both the sending (local) and receiving (remote) systems for communication between them to work properly. How to Use LapLink Follow these steps to get started using LapLink. Once you have LapLink up and running, refer to LapLink's online help for more information. 1.

Start the LapLink Traveling software as follows: T T In Windows for Workgroups, locate and double click the LapLink group icon. Select LapLink for Windows. In Windows 95, press Start, slide the cursor over to Programs, and locate the LapLink for Windows 95 folder. In the folder, highlight the LapLink line and press the VersaGlide selection button or tap the VersaGlide pad once. If you do not have a port enabled, LapLink prompts you to enable one. Press Yes to do so and follow the on-screen instructions to configure the port.

Otherwise, press No. 2. Once your ports are configured, select your communication method by pressing the appropriate button. The buttons give you the following connection options. (Balloon help displays each button's function.)

) T T T T T Connect over cable Connect over wireless Connect over modem Connect over network Connect over dial-up network Once communication is established between systems, the LapLink window is displayed. Introducing the Software 2-9 3. Select the procedure you want to use by pressing one of the last three buttons in the LapLink toolbar at the top of the screen. (Balloon help displays each button's function.) T T T Press the file transfer button to transfer files between systems.

Press the Remote Control button to exercise control over a remote system. Press the Chat button to converse with another user at the remote system. 4. When you finish, press the disconnect button to break the link between the local and remote systems. Press OK. The other system is notified of the break in communications. To find out more about LapLink capabilities and uses, refer to the online help that is available when you open LapLink. McAfee VirusScan The McAfee VirusScan software is set up to scan your system daily. You can change these settings through the VShield Configuration Manager for Windows 95 and Windows for Workgroups. If your operating system is Windows NT, access the McAfee VirusScan NT Console.

1. From the McAfee VirusScan95 in Windows 95 or McAfee VirusScan in Windows for Workgroups program group, highlight the VShield Configuration Manager; and from Windows NT highlight McAfee VirusScan Console. 2. Open the configuration manager or console. It contains a set of four tabs with various configuration features. The Detection tabs give you control over what is scanned and when scanning occurs. McAfee WebScan Scans data and files that you import from Web sites before loading the files onto your system.



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If the data or files contain viruses, WebScan warns you and lets you cancel the action. WebScan is ready to install once you have installed a Web browser (Windows for Workgroups and Windows 95 only). 2-10 Introducing the Software MediaMatics Arcade MPEG Player Provides MPEG Playback software for Windows 95.

See Chapter 5, "Using Multimedia," for instructions on using this application. Xing MPEG Player Provides MPEG Playback software for Windows for Workgroups and Windows NT. See Chapter 5, "Using Multimedia," for instructions on using this application. Introducing the Software 2-11 3 Using Setup Your NEC Versa system comes with a hardware program called Setup that allows you to view and set system parameters. Setup also allows you to set password features that protect your system from unauthorized use.

Use Setup to SETUP UTILITY T T T T set the current time and date customize your operating system to reflect your computer hardware secure your system with a password balance your performance needs with power conservation. How to Enter Setup Access Setup at power-on. Just press F2 when the following prompt appears. Press <Esc> for Boot Messages, F2 for Setup When you press F2 to enter Setup, the system automatically detects current parameter settings with the Power-On Self-Test (POST). If the system detects an error during POST, it prompts you with a double beep and a message: "Press <F1> to resume." If you press F1, the system enters Setup automatically. If you want to fix the error, carefully read the error message that appears above the prompt (taking notes if you want), and press F2. Using Setup 3-1 Setup Utility Main Menu After you press F2, the system displays the Setup Main Menu screen, similar to the following. AMIBIOS HIFLEX SETUP UTILITY - VERSION 1.05 (C)1996 American Megatrends, Inc. All Rights Reserved Standard CMOS Setup Advanced CMOS Setup Power Management Setup Peripheral Setup Change User Password Change Supervisor Password Auto Configuration with Defaults Save Settings and Exit Exit Without Saving Standard CMOS setup for changing time, date, hard disk type, etc. Setup Main Menu Use the up and down arrow keys (located on the lower right corner of the keyboard) to toggle through the Setup menu items. How to Use Setup The following sections describe how to use Setup, including these topics: T T T Looking at screens Using keys Checking/setting system parameters. 3-2 Using Setup Looking at Screens Setup screens have three areas as shown next. AMIBIOS SETUP - ADVANCED CMOS SETUP (C)1996 American Megatrends, Inc.

All Rights Reserved Available Options: C:,A: A:,C: BootUp Sequence Plug and Play Aware O/S NumLock (at BOOT) Keyboard Auto-repeat Rate Keyboard Auto-repeat Delay Password Check A:,C: Auto Off 30/sec 1/2 sec Setup :Sel ESC:Exit PgUp/PgDn:Modify F3/F4:Color Advanced CMOS Setup menu T T T Parameters The left part of the screen. This area lists parameters and their current settings. Available Options The right part of the screen. This area lists alternate settings. Key Legend The bottom right corner of the screen. These lines display the keys that move the cursor and select parameters. Using Setup 3-3 Using Keys The following table lists Setup keys and their functions. Setup Key Functions KEY Esc PgUp/PgDn F3/F4 F10 WHAT IT DOES Displays the "Quit without saving" prompt in the Main Menu screen or exits out of current Menu. Moves the cursor between the displayed parameters. Modifies the current parameter settings.

Changes the screen color. Save changes and exit (works only from main menu). Checking/Setting System Parameters See the following table for a list of parameters, their factory default settings, and alternate settings. A description of each setting follows the table. To reset all parameters to the default settings, select "Auto Configuration with Defaults" from the Setup Main Menu and press Y.

3-4 Using Setup Setup Parameters PARAMETER Standard CMOS Setup System Date System Time Diskette Drive A: ** DEFAULT SETTING ALTERNATE SETTING(S) mm/dd/yyyy hh:mm:ss 1.44MB, 3 1/2" Diskette Drive B: * Not Installed Internal Hard Disk Drive Int Master Enabled Auto Not Installed 1.2 MB, 5 1/4" 1.44 MB, 3 1/2" 1.2 MB, 5 1/4" 1.

44MB, 3 1/2" Not Installed Disabled Enabled Not Installed BIOS Defined User Defined Auto CD-ROM LS-120 Not Installed BIOS Defined User Defined Auto CD-ROM LS-120 Disabled Enabled Not Installed BIOS Defined User Defined Auto CD-ROM LS-120 Not Installed BIOS Defined User Defined Auto CD-ROM LS-120 Yes No (Auto detect) Int Slave Auto Docking Station Hard Drives* Ds Master * Enabled Auto DS Slave * Auto Boot Docking Station IDE * System Memory No 16MB Using Setup 3-5 Setup Parameters (cont'd.) Advanced CMOS Setup Plug and Play Aware O/S No No Yes Auto C:, A: A:, C: Portable Dock Stn On Off Off On Setup Always On Off Off Custom High Perform Longest Life Off 5, 30 or 45 sec, 1, 2, 4, 6, 8, 10, 15 min Off 30 or 45 sec, 1, 2, 4, 6, 8, 10, or 15 min Off On Off On Off 1, 2, 4, 6, 8, 10 or 15 min Off 5, 10, 15, 20, 25 or 30 min STF (Save-To-File) Suspend Disable Enable Full Standard Auto Off On Off On Bootup Sequence Docking Station Video BootUp NumLock Graphic/Text Panel View Expansion Password Check Power Management Setup Power Management Under AC Power Savings Level A:, C: Dock Stn. Off Off Setup Off Longest Life Hard Disk Timeout *** 2 min Video Timeout *** 2 min Peripheral Timeout *** Audio Device Timeout *** Standby Timeout *** Auto Suspend Timeout *** Suspend Option Auto Save To File Panel Backlight ON On 4 min 10 min Suspend Enable Auto Suspend Warning Tone Modem Ring Resume On On 3-6 Using Setup Wake Up Alarm Resume Alarm Time Peripheral Setup Serial Port Off 8:00 AM On Off 12:00 AM to 11:55 PM, 5 min. increments Disabled COM1, IRQ4 COM2, IRQ3 COM3, IRQ4 COM4, IRQ3 Auto (PnP OS Setup) Disabled LPT1 LPT2 Auto (PnP OS Setup) Uni-Directional Bi-Directional EPP ECP Disabled COM2, IRQ3 COM3, IRQ9 COM4, IRQ3 Auto PnP OS Setup SIR MIR FIR Disabled IO address 220h, 240h, 260h, 280h Auto (PnP OS Setup) 5, 7, 9, 10, 11 DMA #0, DMA #1, DMA #3 DMA #0, DMA #1, DMA #3 Disabled 300h, 310h, 320h, 330h Disabled Auto PnP OS Setup Auto Parallel Port Auto Parallel Mode ECP IR Serial Port Auto IR Serial Mode FIR Sound Auto Sound IRQ SB-Compatible DMA Full Duplex Mode DMA Docking Station Midi (MPU-401) **** Docking Station Joystick **** N/A N/A N/A N/A Auto * * * * * Only visible when cold docked. When the portable diskette drive is present, the portable diskette drive is the bootable diskette drive. Only changeable when power saving is set to Custom. Only assessable when docked. Using Setup 3-7 Setup Menus Read the following descriptions for an explanation of each item that appears in the Setup menus, as listed in the preceding table.



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Standard CMOS Setup When you select the Standard CMOS Setup screen you will see System Time and System Date parameters as well as drive parameters. T Date/Time Lets you set your NEC Versa's calendar month/year and system clock.

The calendar clock is year 2000 compliant. These settings remain in memory even after you turn off system power. To set the date use the Tab key to move from field to field. Use the Pg Up or Pg Dn key to change the numbers within each field. To set the time, enter the current hour, minute, and second in hr/min/sec, 24-hour format. Use the Tab key to move from field to field. Use the Pg Up or Pg Dn key to change the numbers within each field. T Drives The drives parameter let you check and change settings for your drives, including internal hard drives, diskette drives, and CD-ROM reader. This parameter also lets you check the docking station's hard drives, diskette drives, and CD-ROM reader. Advanced CMOS Setup Sets CMOS settings for the following functions. T T T Plug and Play Operating System Allows the selection of a Plug and Play aware system to operate at bootup. BootUp Sequence Sets the order that the drives (A:, C:) initialize, or sets the order to search for the boot disk. Docking Station Video Sets the video controller when the notebook is docked. 3-8 Using Setup T T T BootUp NumLock Selects NumLock On or Off at system startup. Graphic/Test Panel View Expansion Expands or compresses the on screen viewing area.

When in expand mode the graphic/text quality maybe adversely affected. Password Check When the system prompts you to enter a password, the password is verified. If Always is selected, pressing Ctrl-Alt-Backspace will lock up the keyboard until the password is entered. The Num Lock, Cap Lock and Scroll Lock LED's will flash in sequence until you enter the password. Power Management Setup The Power Management Setup menu lets you balance high performance and energy conservation using parameters including the following.

Some operating systems such as Windows for Workgroups, Windows 95 and Windows NT have their own power management software which overrides CMOS settings. In this case, be sure to set your desired power management settings accordingly. NOTE T Power Management Under AC Normally, whenever AC power is connected to your NEC Versa system, power management is disabled. If you enable this parameter, the system automatically activates the power management profile you set. Power Savings Level A High Perform setting provides the greatest system performance. Longest Life provides maximum power saving, and Off disables all device timeouts. You can also customize power management by selecting Custom Settings and entering values for device timeouts. Hard Disk Timeout Allows you to select the amount of time before your hard disk shuts down when Power Management is set to custom. T T Using Setup 3-9 T T T T T Video Timeout Allows you to select the amount of time before your video shuts down when Power Management is set to Custom. Peripheral Timeout If this feature is On, onboard serial, parallel, diskette or SuperDisk LS-120 devices are power managed after 2 seconds of inactivity.

Audio Device Timeout If this feature is On, the audio device turns off when no sound device activity occurs for 30 seconds. Standby Timeout You can specify when the system enters Standby mode after total system inactivity. Auto Suspend Timeout You can select the system suspend timeout period. If no system activity has occurred for the specified timeout, the system will enter the selected Suspend Option. Suspend Option Suspend mode is the default power management mode. When you select Suspend, after a specified amount of inactivity, your NEC Versa shuts down all devices as specified by the user in Setup (or applies default timeouts). All your data is automatically recovered from where you left off when you Resume. Auto Save to File (STF) The system enters STF after 30 minutes in Suspend mode. Panel Backlight Lets you choose the backlight intensity. Suspend Warning Tone This parameter lets you enable or disable a warning tone when Suspend mode starts.

It is best to keep this option On. Modem Ring Resume Lets you choose whether the system resumes automatically when the external serial port modem receives a transmission. T T T T T 3-10 Using Setup T Wake Up Alarm/Resume Alarm Time Lets you set a resume time from Suspend mode. Peripherals Setup The Peripherals Setup menu displays the connection location between the system and the Input/Output (I/O) ports. T T T T T Serial Port Disables or reassigns the serial port.

Parallel Port/Parallel Mode Disables or reassigns the parallel port, and/or select a parallel port mode. IR Serial Port Allows you to disable or reassign the IR Serial port. IR Serial Mode Allows you to select the IR transfer rate. Sound/Sound IRQ/SB-compatible DMA/Full duplex Mode DMA/Docking Station Midi (MPU-401) Select the sound parameter to user defined, disabled or Auto. Change additional sound related items as needed.

Docking Station Joystick Select the parameter to Disabled, Auto, or Plug and Play Operating System as needed. T Change User Password You must set the Supervisor password first. Then you can set the user password. You can have a supervisor password without having a user password. This gives the system a second level of password security. Change Supervisor Password Sets a Supervisor password at system startup. Auto Configuration with Defaults Loads or cancels default settings. Using Setup 3-11 Save Settings and Exit Accepts changes made to current, or default settings and exits Setup. Exit Without Saving Reverts to the previously selected settings and exits Setup. USING SETUP TO SET POWER MANAGEMENT As you have seen in this chapter, Setup allows you to use the factory set power savings level (Longest Life), or choose between High Perform, Custom, or Off.

Each provides a special value to your current work effort. These power management levels have been designed with you in mind. For example, you can use them under the following circumstances: T T T T Longest Life -- Provides best battery life and good performance. Use while traveling long distances. High Perform -- Provides best performance and good battery life. Use while on the road, traveling short distances. Custom -- You decide! Set power management levels according to your own needs and present environment. Off -- Office environment, using AC power. See the online documentation in the Windows NEC Information group under the NEC Versa 6060 Help Center for a lengthier discussion of Power Management. See the following section for information on how using the special Save to File (STF) feature can benefit you.

Using the Save to File (STF) Feature STF is a feature that protects the integrity of your working files. For example, if you get urgently called away from your system without saving the current data, it automatically goes into Suspend mode.



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