# Dell Poweredge 400Sc Service Manual

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# Dell Poweredge 400Sc Service Manual

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Diskette drive channel. One 34 pin Video Video type ATI Rage XL PCI video card; VGA connector. Video memory 8 MB Power DC power supply NOTICE Ensure that the voltage selection switch on the power supply is set to the appropriate voltage before turning on the power. Under typical line conditions and over the entire system ambient operating range, the inrush current mayreach25Aperpowersupplyfor10msorless. Batteries System battery CR 2032 3.0 V lithium ion coin cell Physical. Height 42.7 cm 16.8 inches Width 19.1 cm 7.5 inches Depth 45.0 cm 17.7 inches Weight maximum configuration 12.7 kg 28 lb Environmental. Storage 5% to 95% noncondensing. Storage Nonoperating half sine pulse 105 G, 2 ms.This section describes the major hardware and software features of your system and provides information about the indicators on the systems front and back panels. It also provides information about other documents you may need when setting up your system and how to obtain technical assistance. Front Panel Features and Indicators. Figure1 1 shows the front panel features and indicators of the system. Table1 1 describes these features and indicators. Figure 1 1. Front Panel Features and Indicators Table 1 1. Front Panel Features and Indicators Indicator or Feature Description. Diskette drive indicator. Flashes when the diskette drive is reading or writing data to a diskette. Hard drive indicator. Flashes when the hard drives are reading or writing data to the hard drives. The light might also be on when a device such as the CD drive is operating. Power indicator The power indicator blinks or remains solid to indicate different states l. Off — The system is in the off state.Figure1 2 shows the back panel features of the system.

Figure1 3 and Table1 2 provide information about NIC indicators. For information about diagnostic indicators, see your Installation and Troubleshooting Guide. Figure 1 2. Back Panel Features Figure 1 3.http://www.detilabirinta.ru/UserFiles/inpatient-claims-processing-manual.xml

NIC Indicators Table 1 2. NIC Indicators Power button Press this button to turn the system on or off. NOTICE Ensure that the voltage selection switch on the power supply is set to the appropriate voltage before turning on the power. See Figure1 2 for the location of the switch. NOTICE To help avoid damaging your system, ensure that the voltage selection switch on the power supply see Figure1 2 is set for the voltage that most closely matches the AC power available in your location before turning on the power. Also, ensure that your monitor and attached devices are electrically rated to operate with the power available in your location. Indicator Normal Operation Error Condition. Activity Flashing amber indicates that network data is being sent or received. When off at the same time that the link indicator is off, the NIC is not connected to the network. Link Steady green indicates that the NIC is connected to a valid link partner on the network. When off at the same time that the activity indicator is off, the NIC is not connected to the network. Two 1 inch IDE, SATA when available, or SCSI internal hard drives. The system board includes the following built in features l. Four 32 bit, 33 MHz PCI expansion slots l. A VGA compatible ATI RAGE XL video card, containing 8 MB of SDRAM video memory nonupgradable, and a maximum resolution of 1280 x 1024 pixels and 16.7 million colors noninterlaced l. An integrated Gigabit Ethernet NIC, capable of supporting 10 Mbps, 100 Mbps, or 1000 Mbps data rates l. Chassis intrusion alert and padlock tabs for internal security. The following software is included with your system l. The System Setup program for quickly viewing and changing the system configuration information for your system.Red Hat Linux 9 Power Protection Devices. Certain devices protect your system from the effects of problems such as power surges and power failures.

They do not protect against brownouts, which occur when the voltage drops more than 20 percent below the normal AC line voltage level.The battery is charged by AC power while it is available so that after AC power is lost, the battery can provide power to the system for a limited amount of time — from5minutestoapproximatelyanhour.AUPSthat NOTE Use the System Setup program to view processor information. Both drives must use the same bus type. Use surge protectors with all universal power supplies, and ensure that the UPS is UL safety approved. Other Documents You May Need.This service may not be offered in all locations. Back to Contents Page. The System Information Guide provides important safety and regulatory information. Warranty information may be included within this document or as a separate document. NOTE Always read the updates first because they often supersede information in other documents. The System Support CD contains utilities, diagnostics, and drivers to help you configure your system. You begin the operating system installation with this CD if your operating system was not preinstalled on your system. A bootable utility partition on the systems hard drive contains some of the same diagnostics functionality as the System Support CD. Starting the System Support CD. To configure your system and install your operating system, insert the System Support CD, and turn on or reboot the system. The Dell OpenManage Server Assistant main screen appears. The CD uses a standard Web browser interface. You can navigate the CD by using the mouse to click various icons and text links. Click the Exit icon to exit Server Assistant. If the operating system is not preinstalled or if you install an operating system at a later date, use the Server Setup program on the System Support CD to configure your system and install your operating system. The Server Setup program guides you through tasks such as the following l. Setting the system date and time l.

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Selecting and installing your operating system; specifying operating system specific information l. Configuring hard drives l. Viewing the installation summary To start the Server Setup program, click Server Setup on the Dell OpenManage Server Assistant main screen. Follow the instructions on the

screen. Updating Drivers and Utilities. Internet Explorer 4.0 or later or Netscape Navigator 6.0 or later installed. When you NOTE Use the System Support CD only if your operating system is not preinstalled on your system. Locate the operating systems Installation Instructions document and follow the instructions to complete the installation process. NOTE You must have your operating system media available to install your operating system. When you start the utility partition, it boots and provides an executable environment for the partitions utilities. To start the utility partition, turn on or reboot the system. To select a menu option, use either the arrow keys to highlight the option and press or type the number of the menu option. To exit the utility partition, press from the Utility Partition main menu. Table2 1 provides a sample list and explanation of the options that appear on the utility partition menu. These options are available even when the System Support CD is not in the CD drive. Table 2 1. Utility Partition Main Menu Options. Back to Contents Page.Option Description. Run system diagnostics. Runs the system hardware diagnostics. NOTE The options displayed may vary depending on your system configuration and may not include those listed here. Change the system configuration stored in NVRAM after you add, change, or remove hardware l. Set or change user selectable options — for example, the time or date l. Enable or disable integrated devices l. Correct discrepancies between the installed hardware and configuration settings. You can enter the System Setup program by responding to certain error messages.



If an error message appears while the system is booting, make a note of the message. Table3 1 lists the keys that you use to view or change information on the System Setup program screens and to exit the program. Table 3 1.SystemSetupProgramNavigationKeys NOTE To ensure an orderly system shutdown, see the documentation that accompanied your operating system. NOTE After installing a memory upgrade, it is normal for your system to send a message the first time you start your system. Cycles through the settings in a field. In many fields, you can also type the appropriate value. Exits the System Setup program and restarts the system if any changes were made. Main Screen When you enter the System Setup program, the main System Setup program screen appears see Figure3 1 . Figure 3 1. Main System Setup Program Screen Table3 2 lists the options and descriptions for the information fields that appear on the main System Setup program screen. Table 3 2.SystemSetupProgramOptions Displays the System Setup programs help file. NOTE For most of the options, any changes that you make are recorded but do not take effect until you restart the system. NOTE The System Setup program defaults are listed under their respective options, where applicable. Option Description. System Time Resets the time on the systems internal clock. System Date Resets the date on the systems internal calendar. Drive Configuration. Displays a screen that allows you to configure all system drives including enabling and disabling the diskette drive, configuring the drive type and drive geometry information for primary and secondary drives, and enabling and disabling DMA transfers for the internal IDE and SATA when available hard drive interface. Boot Sequence Determines the order in which the system searches for boot devices during system startup. Available options can include the diskette drive, CD drive, hard drives, and network. Memory Information.



Displays the amount of installed system memory and memory speed. This option does not have user selectable settings. CPU Information Displays information related to the processor speed, cache size, and so on, and allows you to lower the speed at which the processor runs after system boot to accommodate speed sensitive applications, and to enable Hyper Threading if supported by your processor. Integrated Devices.Table3 3 lists the options and descriptions for the information fields that appear on the Integrated Devices screen. Table 3 3.IntegratedDevicesScreenOptions System Security Screen. Table3 4 lists the options and descriptions for the information fields that appear on the System Security screen. key keyboards. Report Keyboard Errors. Enables or disables reporting

of keyboard errors during the POST. Enable this option for host systems that have keyboards attached. Select Do Not Report to suppress all error messages relating to the keyboard or keyboard controller during POST. This setting does not affect the operation of the keyboard itself if a keyboard is attached to the system. Auto Power On Disabled default. Displays a screen that allows you to configure the systems Auto Power On features, including setting the time and days of the week to turn on the system automatically. The selections are every day or every Monday through Friday. Time is kept in a 24 hour format hoursminutes. Change the start up time by pressing the right or left arrow keys to increase or to decrease the numbers or type numbers in both the date and time fields. This feature does not work if you turn off the system using a power strip or surge protector. Remote Wake Up When set to On, the system turns on when a NIC or a modem with Remote Wake Up capabilities receives a wake up signal. When Low Power Mode is enabled from the Power Management window, the system can only be turned on remotely from the Suspend state. Fast Boot On default.

Specifies how quickly the system boots if an operating system has requested a simple boot. When set to On, the system boots in 10 seconds or less, skipping certain configurations and tests. When set to Off, these tests and configurations are not skipped. OS Install Mode Off default. Determines the maximum amount of memory available to the operating system. On sets the maximum memory to 256 MB. Off makes all of the system memory available to the operating system. Some operating systems cannot be installed with more than 2 GB of system memory. Enable this option On during operating system installation and disable Off after installation. IDE Hard Drive AcousticsMode Sets the hard drives acoustic mode. When set to Bypass, the system does not test or change the mode. When set to Quiet, the drive operates at its most quiet setting. When set to Suggested, the drive operates at the acoustic level suggested by the manufacturer between Quiet and Performance modes. When set to Performance, the drive operates normally. NOTE Any setting other than Performance may cause a loss in drive performance. System Event Log Displays a screen that allows you to view the system event log and its status and to clear the log. Asset Tag Displays the customer programmable asset tag for the system if an asset tag has been assigned. Network Interface Controller. Enables or disables the systems integrated NIC. PXE support allows the system to boot from the network. Changes take effect after the system reboots. Mouse Port On default. Options are On, Off, and No Boot. When set to No Boot, USB emulation continues, but boot devices are disabled. NOTE For emulation to work properly, the USB controller must be set to On. USB Controller On default. Enables or disables the systems USB ports. Options are On and Off. Disabling the USB ports makes system resources available for other devices. Serial Port 1 and Serial Port2 Auto default Serial port 1 options are COM1, COM3, Auto, and Off.

Serial port 2 options are COM2, COM4, Auto, and Off. When serial port 1 or 2 is set to Auto, the integrated port automatically maps to the next available port. Serial port 1 attempts to use COM1 first and then COM3. Serial port 2 attempts to use COM2 first and then COM4. If both addresses are in use for a specific port, the port is disabled. If you set the serial port to Auto and add an expansion card with a port configured to the same designation, the system automatically remaps the integrated port to the next available port designation that shares the same IRQ setting. Parallel Port Displays a screen that allows you to configure the systems parallel port. Diskette Interface Auto default Enables or disables the systems diskette drive controller. When Auto is selected, the system turns off the controller when necessary to accommodate a controller card installed in an expansion slot. You can also configure the drive as read only. When using the read only setting, the drive cannot be used to write to a disk. PC Speaker On default. Sets the integrated speaker to On or Off. A change to this option takes effect immediately rebooting the system is not required. Primary Video Controller Auto default. Specifies which video controller the system will use during boot. Save Changes and Exit l. Discard Changes and Exit l. Return to Setup System and Setup Password Features System Password Option Settings You cannot change or enter a new system password if either of the following two

options are displayed l. Enabled — A system password is assigned.Not Enabled — A system password has not been assigned and the password jumper on the system board is in the enabled position the default. Assigning a System Password. To escape from the field without assigning a system password, press or the key combination to move to another field, or press at any time before you complete step 5. Option Description.

Password Status Setting the Setup Password option to Enabled prevents the system password from being changed or disabled at system start up. To lock the system password, assign a setup password in the Setup Password option and then change the Password Status option to Locked. In this state, you cannot change the system password using the System Password option and it cannot be disabled at system start up by pressing. To unlock the system password, enter the setup password in the Setup Password field and then change the Password Status option to Unlocked. When set to Enabled Silent, chassis intrusions are detected but no warning message is reported during start up. When set to Enabled, this field displays DETECTED when the chassis cover has been removed. Pressing any edit key acknowledges the intrusion and arms the system to look for further security breaches. PXE BIS Default Policy. Allows you to specify how the system responds to Boot Integrity Services BIS authentication requests when no certificate has been installed. When set to Deny, BIS requests are rejected. When set to Accept, requests are accepted. When set to Reset, BIS is reinitialized and set to Deny on the next boot. NOTICE Although passwords provide security for the data on your system, they are not foolproof. If your data requires more security, it is your responsibility to obtain and use additional forms of protection, such as data encryption programs. NOTICE If you leave your system running and unattended without having a system password assigned, or if you leave the system unlocked so that someone can disable the password by changing a jumper setting, anyone can access the data stored on the hard drives. The password is not case sensitive. Certain key combinations are not valid. If you enter one of these combinations, the system emits a beep. As you press each character key or the spacebar for a blank space, a placeholder appears in the field. 4. Press.

If the new system password is less than 32 characters, the whole field fills with placeholders. Then the option heading changes to Verify Password, followed by another empty 32 character field in square brackets. 5. To confirm your password, type it a second time and press. The password setting changes to Enabled. 6. Exit System Setup. Password protection takes effect when you restart the computer. Typing Your System Password. When you start or restart the system, one of the following prompts appears on the screen. If Password Status is set to Unlocked. Type in the password and press to leave password security enabled. press to disable password security. Enter password If Password Status is set to Locked. The third and subsequent times you type an incorrect or incomplete system password, the system displays the following message If a character is not permitted, the system emits a beep. 3. Type and then verify the password. After you verify the password, the Setup Password setting changes to Enabled. The next time you enter System Setup, the computer prompts you for the setup password. 4. Exit System Setup. A change to Setup Password becomes effective immediately no need to restart the computer. Operating Your System With a Setup Password Enabled. When you enter System Setup, the Setup Password option is highlighted, prompting you to type the password. See your Installation and Troubleshooting Guide. Asset Tag Utility You can use the Asset Tag utility to assign a unique tracking number to your system.Any combination of characters is valid.ACPI Advanced Configuration and Power Interface. AGP Advanced graphics port.The temperature of the area or room where the system is located. ANSI American National Standards Institute.Applications run from the operating system. ARI Analog Rack Interface. ASCII American Standard Code for Information Interchange.As a precaution, back up your systems hard drive on a regular basis.

Before making a change to the configuration of your system, back up important start up files from

your operating system. backup battery The backup battery maintains system configuration, date, and time information in a special section of memory when the system is turned off. Your systems BIOS contains programs stored on a flash memory chip. The BIOS controls the following l. Communications between the processor and peripheral devices l. Miscellaneous functions, such as system messages.The modules are mounted into a chassis that includes power supplies and fans. boot routine When you start your system, the boot routine clears all memory, initializes devices, and loads the operating system. Unless the operating system fails to respond,youcanrebootalsocalled warm boot your system by pressing. Otherwise, you must perform a cold boot by pressing the reset button or by turning the system off and then back on. bootable diskette A bootable diskette is used to start your system if the system will not boot from the hard drive. BTU British thermal unit.Your system contains an expansion bus that allows the processor to communicate with controllers for the peripheral devices connected to the system. Your system also contains an address bus and a data bus for communications between the processor and RAM. C Celsius cache A fast storage area that keeps a copy of data or instructions for quick data retrieval. When a program makes a request to a disk drive for data that is in the cache, the disk cache utility can retrieve the data from RAM faster than from the disk drive. CD Compact disc. CD drives use optical technology to read data from CDs. component As they relate to DMI, manageable components are operating systems, computer systems, expansion cards, and peripherals that are compatible with DMI. Each component is made up of groups and attributes that are defined as relevant to that component.

COM n The device names for the serial ports on your system The first 640 KB of RAM.A math coprocessor, for example, handles numeric processing. CPU Central processing unit. See processor. DC Direct current DDR Double data rate.Some device drivers — such as network drivers — must be loaded from the config.sys file or as memory resident programs usually, from the autoexec.bat file. Others must load when you start the program for which they were designed. DHCP Dynamic Host Configuration Protocol.DIMM Dual in line memory module. See also memory module. DIN Deutsche Industrie Norm. Additional directories that branch off the root directory are called subdirectories. Subdirectories may contain additional directories branching off them. DMA Direct memory access. A DMA channel allows certain types of data transfer between RAM and a device to bypass the processor. DMI enables the management of your systems software and hardware by collecting information about the systems components, such as the operating system, memory, peripherals, expansion cards, and asset tag. DNS Domain Name System. DRAM Dynamic random access memory. A systems RAM is usually made up entirely of DRAM chips. DVD Digital versatile disc. ECC Error checking and correction. EEPROM Electronically erasable programmable read only memory. EMC Electromagnetic Compatibility. EMI Electromagnetic interference. ERA Embedded remote access.An expansion card adds some specialized function to the system by providing an interface between the expansion bus and a peripheral. Examples of expansion cards include NICs and SCSI adapters. expansion card connector. A connector on the system board or riser board for plugging in an expansion card. F Fahrenheit FAT File allocation table. The file system structure used by MS DOS to organize and keep track of file storage.An unconditional format deletes all data stored on the disk. FSB Front side bus.

The FSB is the data path and physical interface between the processor and the main memory RAM. ft Feet FTP File transfer protocol.In text, hexadecimal numbers are often followed by h. headless system A system or device that functions without having a keyboard, mouse, or monitor attached. Normally, headless systems are managed over a network using an Internet browser. Provides simultaneous physical mirroring of two drives. Integrated mirroring functionality is provided by the systems hardware. See also mirroring. internal processor cache. An instruction and data cache built into the processor. IP Internet Protocol IPX Internetwork Packet eXchange. IRQ Interrupt request. A signal that data is about to be sent to or received by a peripheral device travels by an IRQ line to the processor. Each peripheral connection must be assigned an IRQ number. Two devices can share the

same IRQ assignment, but you cannot operate both devices simultaneously. jumper Small blocks on a circuit board with two or more pins emerging from them. Plastic plugs containing a wire fit down over the pins. The wire connects the pins and creates a circuit. Jumpers provide a simple and reversible method of changing the circuitry in a board. K Kilo , indicating 1000. Kb Kilobits; 1024 bits. KB Kilobytes;1024 bytes. Kbps Kilobits per second KVM refers to a switch that allows selection of the system from which the video is displayed and for which the keyboard and mouse are used. LAN Local area network. A LAN system is usually confined to the same building or a few nearby buildings, with all equipment linked by wiring dedicated specifically to the LAN. lb Pounds LCD Liquid crystal display.See also bus. m Meters mA Milliamperes MAC Media Access Control MB Megabytes; 1,048,576 bytes. However, when referring to hard drive capacity, the term is often rounded to mean 1,000,000 bytes. Mbps Megabits per second. MBps Megabytes per second. MBR Master boot record.

A system can contain several different forms of memory, such as integrated memory ROM and RAM and add in memory modules DIMMs. MHz Megahertz mirroring A type of data redundancy in which a set of physical drives stores data and one or more sets of additional drives stores duplicate copies of the data. Mirroring functionality is provided by software. See also guarding, integrated mirroring, striping, and RAID. mm Millimeters ms Milliseconds MS DOS Microsoft Disk Operating System. NAS Network Attached Storage. NAS is one of the concepts used for implementing shared storage on a network. NAS systems have their own operating systems, integrated hardware, and software that are optimized to serve specific storage needs. NIC Network interface controller A device sends an NMI to signal the processor about hardware errors. NTFS The NT File System option in the Windows 2000 operating system. NVRAM Nonvolatile random access memory. Memory that does not lose its contents when you turn off your system. NVRAM is used for maintaining the date, time, and system configuration information. parity Redundant information that is associated with a block of data.Each partition can contain multiple logical drives. You must format each logical drive with the format command. PCI Peripheral Component Interconnect; a standard for local bus implementation. PDU Power distribution unit; a power source with multiple power outlets that provides electrical power to servers and storage systems in a rack.PGA Pin grid array; a type of processor socket that allows you to remove the processor chip.Pixels are arranged in rows and columns to create an image. A video resolution, such as 640 x 480, is expressed as the number of pixels across by the number of pixels up and down. POST Power on self test. Before the operating system loads when you turn on your system, the POST tests various system components such as RAM and hard drives.