Back to Contents Page

System Setup Program
Dell™ Dimension™ 4550 Series

- Overview
- Hyper-Threading
- Viewing Settings
- Clearing Forgotten Passwords

Overview

The system setup program contains the standard settings for your computer.

NOTICE: Unless you are an expert computer user, don't change the settings for this program. Certain changes might make your computer work incorrectly.

See the following figure for an example of the main screen of the program.

```
┌──────────────────────────────────────────────────────────────────────────────┐
│                           Dell - Dimension 4550                                │
├────────────────────────────────────────┬───────────────────────────────────────┤
│ Intel® Pentium® 4 Processor: nnn GHz    │ BIOS Version: nnn                     │
│ Level 2 Cache: nnn KB Integrated        │ Service Tag:  nnnnnn                  │
└────────────────────────────────────────┴───────────────────────────────────────┘

┌──────────────────────────────────────────────────────────────────────────────┐
│ System Time ..............................................00:00:00             │
│ System Date ..............................................DAY/MO/DATE/YR        │
│                                                                                │
│ Diskette Drive A: ........................................3.5 inch, 1.44 MB    │
│                                                                                │
│ Primary Drive 0 ..........................................Hard Drive           │
│ Primary Drive 1 ..........................................Off                  │
│ Secondary Drive 0 ........................................CD-ROM Reader        │
│ Secondary Drive 1 ........................................Off                  │
│                                                                                │
│ Boot Sequence ............................................<Enter>             │
│                                                                                │
│ Memory Information .......................................<Enter>             │
│ CPU Information ...........................................<Enter>             │
│                                                                                │
│ Integrated Devices (LegacySelect Options) ...............<Enter>             │
│ PCI IRQ Assignments ......................................<Enter>             │
│ IRQ Reservations .........................................<Enter>             │
│ Power Management .........................................<Enter>             │
│ System Security ..........................................<Enter>             │
│                                                                                │
│ Keyboard NumLock .........................................On                  │
│ Report Keyboard Errors ...................................Report              │
│                                                                                │
│ Auto Power On ............................................Disabled            │
│ Fast Boot ................................................On                  │
│ IDE Hard Drive Acoustics Mode ............................Bypass              │
│                                                                                │
│ System Event Log .........................................<Enter>             │
│                                                                                │
│ Asset Tag ................................................xxxxx               │
└──────────────────────────────────────────────────────────────────────────────┘

┌──────────────┬──────────────────────┬──────────────┬──────────────┐
│ ↓↑ to select │ SPACE, +, - to change│ ESC to exit  │ F1 = Help    │
└──────────────┴──────────────────────┴──────────────┴──────────────┘
```

Hyper-Threading

HINT: Hyper-Threading is supported only on computers that have 3.06-GHz microprocessors (or higher) installed.

Hyper-Threading is an Intel® technology that can enhance overall performance by allowing one physical microprocessor to function as two logical microprocessors, capable of performing certain tasks simultaneously. It is recommended that you use the Microsoft® Windows® XP operating system because Windows XP is optimized to take advantage of Hyper-Threading technology. While many programs can benefit from Hyper-Threading technology, some programs have not been optimized for Hyper-Threading and may require an update from the software manufacturer. Contact the software manufacturer for updates and information on using your software with Hyper-Threading.

To determine if your computer is using Hyper-Threading technology:

1. Click the **Start** button, right-click **My Computer**, and then click **Properties**.

2. Click **Hardware** and click **Device Manager**.

3. In the **Device Manager** window, click the plus (+) sign next to the processor type. If Hyper-Threading is enabled, the processor is listed twice.

For more information on Hyper-Threading, search the Knowledge Base on the Dell Support website at **support.dell.com**.

To enable or disable Hyper-Threading:

1. Shut down and restart the computer.

2. When the DELL™ logo appears, press <F2> immediately to enter the system setup program.

   If you wait too long and the Microsoft Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer through the **Start** menu and try again.

3. When the system setup program screen appears, highlight **CPU Information** and press <Enter>.

4. When the **CPU information** screen appears, highlight **Hyper-Threading** and press the spacebar on the keyboard to select **Enable** or **Disable**.

5. Press <ESC> to save the setting and exit the **CPU Information** screen.

6. Press <ESC> to **Save and Exit**.

7. When you see the message Save changes and exit now, press **<Enter>**.

   Your computer will restart.

Viewing Settings

1. Turn on (or restart) your computer.

2. When the blue DELL™ logo appears, press <F2> immediately.

   If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop. Then shut down your computer and try again.

System Setup Program Screens

The system setup program screens display the current configuration information for your computer. Information on the screen is divided into five areas:

- Title – The area at the top of all system setup screens that displays your computer's model number.

- Computer data – Two boxes below the title that display the system processor, L2 cache, service tag, and the version number of the system setup program.

- Options – A scrollable box listing options that define the configuration of your computer (including installed hardware, power conservation, and security features).

  Fields to the right of the listed options contain settings or values. The settings and values that you can change are brighter on the screen. All other settings and values are set by the computer and cannot be changed. When <Enter> appears to the right of an option, press <Enter> to access a pop-up menu of additional options.

- Key functions – A line of boxes across the bottom of all system setup screens that lists keys and their functions within the system setup program.

- Help – Press <F1> for information on the option that is selected (highlighted).

Option	Function
System Time	Displays the system time.
System Date	Displays the system date.
Diskette Drive A:	Displays floppy drive details.
Primary Drive 0:	Displays primary hard drive 0. The default is **Auto**.
Primary Drive 1:	Displays primary hard drive 1 (if installed). The default is **Off**.
Secondary Drive 0:	Displays secondary hard drive 0. The default is **Auto**.
Secondary Drive 1:	Displays secondary hard drive device type. The default is **Off**.
Boot Sequence	Displays boot sequence when <Enter> is pressed.
Memory Information	Displays amount of system memory.
CPU Information	Displays CPU information when <Enter> is pressed.
Integrated Devices (Legacy Select Options)	Displays integrated device options when <Enter> is pressed.
PCI IRQ Assignments	Displays PCI IRQ assignments when <Enter> is pressed.
IRQ Reservations	Displays the IRQ reservations when <Enter> is pressed.
Power Management	Displays power management options when <Enter> is pressed.
System Security	Displays system security options when <Enter> is pressed.
Keyboard Numlock	Turns the **Keyboard NumLock** option on and off. The default is **On**.
Report Keyboard Errors	Displays keyboard errors when set to **Report**. The default is **Report**.
Auto Power On	Allows auto power-on. The default is **Disabled**.
Fast Boot	Turns the fast boot option on and off. The default is **On**.
IDE Hard Drive Acoustics Mode	Sets the performance speed of your hard drive. The default is **Bypass**.
System Event Log	Displays the system event log when <Enter> is pressed.
Asset Tag	Displays asset tag information.

The following table shows **Memory Information** option information.

Option	Function
AGP Aperture	Displays the amount of aperture memory. The default is **128 MB**.

The following table shows **CPU Information** option information.

Option	Function
Hyper-Threading	Enables Hyper-Threading. The default is **Enabled**.
CPU Speed	Sets the CPU speed. The default is **Normal**.
Bus Speed	Displays the bus speed.
Processor ID	Displays processor ID.
Clock Speed	Displays clock speed.
Cache Size	Displays cache size.

The following table shows **Integrated Devices (Legacy Select Options)** option information.

Option	Function
Sound	Turns the integrated sound off and on. The default is **On**.
Mouse Port	Turns the mouse port off and on. The default is **On**.
USB Emulation	Turns USB emulation off and on. The default is **On**.
USB Controller	Turns the USB controller off and on. The default is **On**.
Serial Port 1	Sets serial port options and turns the port off and on. The default is **Auto**.
Parallel Port	Displays parallel port settings when <Enter> is pressed. The default mode is **PS/2** and the I/O address default is **378h**.
IDE Drive Interface	Sets the IDE drive interface options. The default is **Auto**.
Diskette Interface	Sets diskette interface options. The default is **Auto**.
PC Speaker	Turns the PC speaker off and on. The default is **On**.
Primary Video Controller	Sets the primary video controller. The default is **AGP**.
Video DAC Snoop	Turns the video DAC Snoop off and on. The default is **Off**.

The following table shows **Power Management** option information.

Option	Function
Suspend Mode	Displays the suspend state used by the computer. The default is **S3**.
AC Power Recovery	Enables AC power recovery to occur. The default is **Off**.
Low Power Mode	Minimizes power use when the computer is off. The default is **Disabled**.

The following table shows **System Security** option information.

Option	Function
Password Status	Locks and unlocks the password option. The default is **Unlocked**.
System Password	Enables and disables the system password. The default is **Disabled**.
Setup Password	Enables and disables the setup password. The default is **Disabled**.
POST Hotkeys	Selects key that are active during POST. The default is **F2** and **F12**.
PXE BIS Default Policy	Specifies how the computer will respond to boot integrity services authentication requests when no certificate has been installed. When set to **Deny** (the default), this request is rejected. The request is accepted when set to **Accept**.

Clearing Forgotten Passwords

⚠️ **CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in "Safety Instructions."**

If you forget your supervisor or setup password, you cannot operate your computer or change settings in the system setup program until you clear the forgotten password(s).

🚫 **NOTICE:** The following procedure resets all standard settings for your computer. Before proceeding, record

all current settings so that you can restore them when you finish this procedure.

1. Shut down the computer.

2. Turn off any attached devices and disconnect them from their electrical outlets.

⊙ **NOTICE:** To disconnect a network cable, first unplug the cable from your computer and then unplug it from the network wall jack.

3. Disconnect the power cable from your computer, and then press the power button to ground the system board.

4. Open the computer cover.

5. Locate the configuration jumper on the system board, and move the jumper plug so that pins 2 and 3 are jumpered (to "clear" the password when you turn on the computer).

6. Close the computer cover, connect your computer to an electrical outlet, and turn on the computer.

7. Access the system setup program and assign a new supervisor or setup password in the **Maintenance** menu.

8. Exit and save the system setup program settings.

9. After the computer boots, turn it off, and unplug it from the electrical outlet.

10. Open the computer cover again.

11. Move the configuration jumper plug so that pins 1 and 2 are jumpered (the "normal" setting).

12. Close the computer cover, connect your computer to an electrical outlet, and turn on the computer.

Back to Contents Page