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System Setup Program: Dell™ Dimension™ 4100 System Reference

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Overview

Each time you turn on or restart your computer system, the computer compares the hardware installed in the computer to the hardware listed in the configuration information stored in nonvolatile random-access memory (NVRAM) on the system board. If the computer detects a discrepancy between the two, it generates error messages that identify the incorrect configuration settings. The computer then prompts you to enter the system setup program to correct the setting.

You can use the system setup program as follows:

- To change the system configuration information after you add, change, or remove any hardware in your computer
- To set or change user-selectable options — for example, the user password

Dell recommends that you write down the system setup program screen information for future reference.

The system setup screens are organized as follows:

- At the top is a menu bar for accessing the main program screens.
- The box on the left side of each screen lists options that define the installed hardware in the computer. Fields beside the options contain settings or values. You can change those that are enclosed in brackets. Values that are grayed out contain status information reported by the system.
- The box on the right side of each screen displays help information for the option with a currently highlighted field.
- The bottom right area lists keys and their functions for the currently displayed screen.

The menu bar provides access to the following screens:

- [Main screen](#) — Provides settings for the basic computer configuration
- [Advanced screen](#) — Provides detailed settings for some computer features
- [Security screen](#) — Provides indications and settings for system password and setup password
- [Boot screen](#) — Provides information about which device boots the computer
- [Exit screen](#) — Provides selections for saving and loading the configurations and options

In addition to these screens, options identified by a right arrow provide access to submenus.

Entering the System Setup Program

1. Turn on (or restart) your computer.
2. When the blue Dell logo appears, press .

If you wait too long and the operating system begins to load into memory, *let the system complete the load operation*. Then shut down the computer and try again.

Main Screen

Dell Dimension 4100 Setup				
Main	Advanced	Security	Boot	Exit
BIOS Version	Axx			Item Specific Help
Processor Type	Intel® Pentium® III			
Processor Speed	800 MHz			
System Bus Frequency	133 MHz			
Cache RAM	512 KB			
Service Tag	12ABC			
Total Memory	64 MB			
Memory Bank 0	64 MB [PC133]			
Memory Bank 1	Not Installed			
Processor Serial Number	[Disabled]			
System Time:	00:00:00			
System Date:	MO/DY/YR			
				←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 1. Main Screen Menu Options

Option	Function
BIOS Version	Displays the version of the BIOS being used.

Processor Type	Displays the type of microprocessor installed.
Processor Speed	Displays the internal speed of the microprocessor.
System Bus Frequency	Displays the external speed of the microprocessor.
Cache RAM	Displays the cache random access memory.
Service Tag	Displays the service tag for the computer.
Total Memory	Displays the total computer memory.
Memory Bank 0	Displays the memory size and type in memory bank 0.
Memory Bank 1	Displays the memory size and type in memory bank 1.
Processor Serial Number	Displays the serial number of the microprocessor when set to Enabled . Disabled (default) turns off this feature.
System Time	Resets the time on the computer's internal clock.
System Date	Resets the time on the computer's internal calendar.

NOTE: The [Glossary](#) defines abbreviations and acronyms.

Advanced Screen

Dell Dimension 4100 Setup				
Main	Advanced	Security	Boot	Exit
Setup Warning Setting items on this menu to incorrect values may cause your system to malfunction ▶ Boot Configuration ▶ Peripheral Configuration ▶ IDE Configuration ▶ Diskette Configuration ▶ Event Log Configuration ▶ Video Configuration	Item Specific Help ←→ Select Menu ↑↓ Select Item Enter Select ▶ Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help			

Table 2. Advanced Screen Menu Options

Option	Function
Boot Configuration	Displays the Boot Configuration submenu .

Peripheral Configuration	Displays the Peripheral Configuration submenu .
IDE Configuration	Displays the IDE Configuration submenu .
Diskette Configuration	Displays the Diskette Configuration submenu .
Event Log Configuration	Displays the Event Log Configuration submenu .
Video Configuration	Displays the Video Configuration submenu .
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Boot Configuration Submenu

Dell Dimension 4100 Setup	
Advanced	
Plug and Play OS [Yes] Reset Conf Data [No] Numlock [On]	Item Specific Help
	<pre> ←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help </pre>

Table 3. Boot Configuration Submenu Options

Option	Function
Plug and Play OS	<p>Determines whether the computer is configured to support Plug and Play devices from the operating system or from the system BIOS. Leave this option set to Yes so the operating system handles all Plug and Play operation.</p> <p><i>NOTES: Be sure that this option is set to No before running Dell Diagnostics. Otherwise, some diagnostics may incorrectly fail.</i></p> <p><i>The system setup program automatically checks the configuration of a Simple Boot Flag-compatible operating system at power-on self-test (POST). Depending on its configuration, the system setup program may automatically set this option to No or Yes.</i></p>

Reset Config Data	Permits resetting Plug and Play configuration data to default values. Yes resets the data; No (default) retains the current Plug and Play settings. If set to Yes , configuration data reverts to default values the next time the computer boots. This option automatically reverts back to the No setting.
Numlock	Selects power on state for Numlock.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Peripheral Configuration Submenu

Dell Dimension 4100 Setup	
Advanced	
Serial Port A: [Auto] Parallel Port: [Auto] Mode: [Bi-Directional]	Item Specific Help
Onboard Audio Device [Enabled] Onboard LAN Device [Enabled] Legacy USB Support [Enabled]	
	←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 4. Peripheral Configuration Submenu Options

Option	Function
Serial Port A	<p>Configures the serial port. Set this option to Auto (default), Enabled, or Disabled. Depending on the port setting, you can set the following additional options:</p> <p>Base I/O Address If port is set to Enabled, available I/O addresses are 3F8, 3E8, 2F8, and 2E8.</p> <p>Interrupt If port is set to Enabled, available interrupts are IRQ3 and IRQ4.</p>
Parallel Port	<p>Configures the parallel port. Set this option to Auto (default), Enabled, or Disabled. Depending on the port setting, you can set the following additional options:</p>

	<p>Mode If port is set to Auto or Enabled, available modes are Output Only, Bi-Directional (default), ECP, and EPP.</p> <p><i>NOTE: See the device manufacturer's documentation for information on which mode to use before changing this setting.</i></p> <p>Base I/O Address If port is set to Enabled, available I/O addresses are 378 (default), 278, and 228</p> <p>Interrupt If port is set to Enabled, available interrupts are 7 and 5.</p>
Onboard Audio Device	Appears only on computers with an optional built-in audio controller and sets the controller to either Enabled (default) or Disabled .
Onboard LAN Device	Appears only on computers with an optional built-in NIC and sets the NIC to either Enabled (default) or Disabled .
Legacy USB Support	Set to Enabled (default) to allow support for legacy USB. Set to Disabled if legacy USB support is not desired.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

IDE Configuration Submenu

Dell Dimension 4100 Setup		Item Specific Help
Advanced		
IDE Controller	[Both]	
▶ Primary IDE Master	[WDC WD204BA]	
▶ Primary IDE Slave	[Not Installed]	
▶ Secondary IDE Master	[CRD-8480C]	
▶ Secondary IDE Slave	[Not Installed]	
		←→ Select Menu ↑↓ Select Item Enter Select ▶ Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 5. IDE Configuration Submenu Options

Option	Function
IDE Controller	Configures the integrated primary and secondary EIDE controllers and detects the types of drives attached to them. If set to Primary , Secondary , or Both , the designated controller(s) are enabled, and the types of drives attached are displayed. If set to either Primary or Secondary , the other controller is not enabled and the IRQ it normally uses becomes available. If set to Disabled , the system cannot detect any drives attached to the controllers and displays None for all four IDE drive options.
Primary IDE Master	Identifies the first drive attached to the primary EIDE interface, usually the boot hard drive. See Primary IDE Master Submenu .
Primary IDE Slave	Identifies the second drive attached to the primary EIDE interface, usually a second hard drive. The format of this submenu is the same as the one described in Primary IDE Master Submenu .
Secondary IDE Master	Identifies the first drive attached to the secondary EIDE interface, if there is one. The format of this submenu is the same as the one described in Primary IDE Master Submenu .
Secondary IDE Slave	Identifies the second drive attached to the secondary EIDE interface, usually a CD, CD-RW, or DVD drive. The format of this submenu is the same as the one described in Primary IDE Master Submenu .

NOTE: The [Glossary](#) defines abbreviations and acronyms.

Primary IDE Master Submenu

Dell Dimension 4100 Setup	
Advanced	
Primary IDE Master	Item Specific Help
Type: [Auto]	
	←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 6. Primary IDE Master Submenu Options

Option	Function
Type	Specifies the type of hard drive. Settings for this option are User , Auto , CD-ROM , ATAPI Removable , Other ATAPI , IDE Removable , and None .
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Diskette Configuration Submenu

Dell Dimension 4100 Setup	
Advanced	
Diskette Configuration	Item Specific Help
Diskette Controller: [Enabled]	
Floppy A: [1.44/1.25 MB 3 1/2"]	
Diskette Write Protect: [Disabled]	
	←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 7. Diskette Configuration Submenu Options

Option	Function
Diskette Controller	Configures the floppy drive interface. Options are Enabled (default) and Disabled .
Floppy A	Selects the floppy drive type from Not Installed , 360 KB 5 1/4" , 1.2 MB 5 1/4" , 720 KB 3 1/2" , 1.44/1.25 MB 3 1/2" , or 2.88 MB 3 1/2" .
Diskette Write Protect	Protects a floppy disk from being written to when set to Enabled . When this option is set to Disabled (default), the floppy disk is not protected unless the write-protect tab is in place.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Event Log Configuration Submenu

Dell Dimension 4100 Setup

Advanced

Event Log Configuration	Item Specific Help
Event Log [Space Available] Event Log Validity [Valid] ► View Event Log Clear All Event Logs [No] Event Logging [Enabled] ► Mark Events As Read	
	←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 8. Event Log Configuration Submenu Options

Option	Function
Event Log	Displays the space available for the event log.
Event Log Validity	Displays the validity of the event log.
View Event Log	Press <Enter> to view the event log.
Clear All Event Logs	Clears all event logs when the computer restarts if set to Yes . Retains the event log information if set to No (default).
Event Logging	Enables or disables event logging.
Mark Events As Read	Press <Enter>, and then select Yes or No to mark DMI events as either read or unread.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Video Configuration Submenu

Dell Dimension 4100 Setup

Advanced

Video Configuration	Item Specific Help
AGP Aperture Size [64 MB] Primary Video Adapter [AGP]	
	←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help

Table 9. Video Configuration Submenu Option

Option	Function
AGP Aperture Size	Sets the AGP aperture size to either 64 MB (default) or 32 MB .
Primary Video Adapter	Supports the Windows® 98 and Windows 2000 multiple-monitor feature. Select AGP (default) to specify the AGP video card as the primary video adapter. Select PCI to specify a PCI video card as the primary video adapter.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Security Screen

Dell Dimension 4100 Setup

Main	Advanced	Security	Boot	Exit
Security		Item Specific Help		
Supervisor Password Is:		Not Installed		
User Password Is:		Not Installed		
Set Supervisor Password		[Enter]		
Set User Password		[Enter]		
		←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help		

Table 10. Security Screen Options

Option	Function
Supervisor Password Is	Indicates whether a supervisor password has been assigned.
User Password Is	Indicates whether a user password has been assigned.
Set Supervisor Password	Sets and confirms a supervisor password. If a supervisor password is set, a User Access Level option appears that enables you to set the user access level as Full (default), Limited , No Access , or View Only .
Set User Password	Sets and confirms a user password.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Boot Screen

Dell Dimension 4100 Setup

Main	Advanced	Security	Boot	Exit
Quiet Boot		[Enabled]		Item Specific Help
Quick Boot		[Disabled]		
Restore on AC/Power Loss:		[Last State]		←→ Select Menu ↑↓ Select Item Enter Select ► Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help
On LAN		[Power On]		
On PME		[Stay Off]		
1st Boot Device		[Floppy]		
2nd Boot Device		[ARMD-FDD]		
3rd Boot Device		[ARMD-HDD]		
4th Boot Device		[ATAPI CD ROM]		
5th Boot Device		[AHA2940]		
6th Boot Device		[OPTION ROM]		
7th Boot Device		[Disabled]		
► IDE Drive Configuration				

Table 11. Boot Screen Options

Option	Function
Quiet Boot	Enabled (default) displays the Dell logo during POST. Disabled displays the normal POST messages.
Quick Boot	When set to Enabled , this option shortens POST by eliminating some tests. If set to Disabled (default), all POST tests occur. <i>NOTE: The system setup program automatically checks the configuration of a Simple Boot Flag-compatible operating system at POST. Depending on its configuration, the system setup program may automatically set this option to Enabled or Disabled.</i>
Restore on AC/Power Loss	Determines what state the computer enters when AC power is restored after a power loss. Settings are as follows: <ul style="list-style-type: none"> • Last State (default) — Computer returns to the state it was in when power was lost. • Stay Off — Computer stays off when power is restored; you must press the power button to turn on the computer. • Power On — Computer turns on when power is restored.
On LAN	Determines what state the computer enters when a LAN wake-up event occurs. Settings are Power On (default) and Stay Off .
On PME	Determines what state the computer enters when a PCI Power Management Enable wake-up event occurs. Settings are Power On and Stay Off

	(default).
1st Boot Device	<p>Determines which device the computer tries to boot from first. Use the up- or down-arrow key to highlight one of the following settings:</p> <ul style="list-style-type: none">• Floppy• ARMD FDD• ARMD HDD• IDE-HDD• ATAPI CDROM• OPTION ROM• Disabled
2nd Boot Device — 7th Boot Device	<p>Determines which device the computer tries to boot from if it cannot boot from the previous boot device in the list. Settings for this option are the same as for 1st Boot Device. If you select Disabled for any of these devices, no further boot devices appear on the list.</p> <p><i>NOTE: The computer displays only the bootable devices that are installed. Therefore, you may see less than seven settings in this option.</i></p>
IDE Drive Configuration	Determines the primary master IDE, primary slave IDE, secondary master IDE, and secondary slave IDE drive boot order.
<p><i>NOTE: The Glossary defines abbreviations and acronyms.</i></p>	

Exit Screen

Dell Dimension 4100 Setup					
Main	Advanced	Security	Boot	Exit	
<ul style="list-style-type: none"> ▶ Exit Saving Changes ▶ Exit Discarding Changes ▶ Load Setup Defaults ▶ Load Custom Defaults ▶ Save Custom Defaults ▶ Discard Changes 				<p style="text-align: center;">Item Specific Help</p> <hr/> <p style="text-align: center;"> ←→ Select Menu ↑↓ Select Item Enter Select ▶ Submenu F9 Setup Defaults F10 Save and Exit ESC Exit F1 Help </p>	

Table 12. Exit Screen Options

Option	Function
Exit Saving Changes	Saves any changes you have made, exits the system setup program, and restarts the computer.
Exit Discarding Changes	Discards any changes you have made, exits the system setup program, and restarts the computer.
Load Setup Defaults	Discards any changes you have made and reverts all options to their defaults, but does not exit the system setup program.
Load Custom Defaults	Loads settings saved using Save Custom Defaults option.
Save Custom Defaults	Saves any changes you have made, but does not exit the system setup program.
Discard Changes	Discards any changes you have made and reverts all options to their last saved settings, but does not exit the system setup program.
<i>NOTE: The Glossary defines abbreviations and acronyms.</i>	

Clearing NVRAM

To clear NVRAM for all devices and restart the computer:

1. [Enter the system setup program.](#)
2. Press the right-arrow key to move to the **Advanced** menu.

3. Select the **Boot Configuration** submenu by pressing <Enter>.
 4. Press the down-arrow key to highlight **Reset Config Data**. Then change the setting to **Yes** (see [Table 3](#)).
 5. Press <F10> to exit the program and restart the computer.
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Enabling the Processor Serial Number

The Intel® Pentium® III microprocessor includes a processor serial number feature designed to provide additional user security and manageability benefits. By default, this feature is disabled on Dell computers to protect your privacy. However, it can be enabled through the **Processor Serial Number** option in the system setup program.

NOTICE: Do not change this setting by any means other than the system setup program. Otherwise, your computer may become unusable.

1. [Enter the system setup program](#).
2. When the **Main** screen appears, use the down-arrow key to highlight the **Processor Serial Number** option, and then press <Enter>.
3. Select **Enabled** from the menu, and then press <Enter>.
4. Use the right-arrow key to highlight **Exit**, and then press <Enter>.
5. When prompted to confirm the changes you made, press <Enter>.
6. The computer restarts with the processor serial number feature enabled.



NOTE: The processor serial number feature remains enabled until you disable it in the system setup program.

To disable the processor serial number feature, repeat steps 1 through 5, selecting **Disabled** in step 3.

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