

Fujitsu LifeBook

E Series

BIOS Guide

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F U J I T S U C O M P U T E R S Y S T E M S

E Series BIOS

BIOS SETUP UTILITY

The BIOS Setup Utility is a program that sets up the operating environment for your notebook. Your BIOS is set at the factory for normal operating conditions, therefore there is no need to set or change the BIOS environment to operate your notebook.

The BIOS Setup Utility configures:

- Device control feature parameters, such as changing I/O addresses and boot devices.
- System Data Security feature parameters, such as passwords.

Entering the BIOS Setup Utility

To enter the BIOS Setup Utility, do the following:

1. Turn on or restart your notebook.
2. Press [F2] once the Fujitsu logo appears on the screen. This will open the main menu of the BIOS Setup Utility with the current settings displayed.
3. Press the [RIGHT ARROW] or [LEFT ARROW] key to scroll through the other setup menus to review or alter the current settings.

Navigating through the Setup Utility

The BIOS setup utility consists of six menus: Main, Advanced, Security, Boot, Info, and Exit. This document explains each menu in turn, including all submenus and setup items.

The following procedures allow you to navigate the setup utility menus:

1. To select a menu, use the cursor keys: [←], [→].
2. To select a field within a menu or a submenu, use the cursor keys: [↑], [↓].
3. To select the different values for each field, press the [Spacebar] or [+] to change to the next higher selection and [F5] or [-] to go to the next lower selection.
4. To activate a submenu press the [Enter] key.
5. To return to a menu from a submenu, press the [Esc] key.
6. To go to the Exit menu from any other menu, press the [Esc] key.



- Selecting a field causes a help message about that field to be displayed on the right-hand side of the screen.
- Pressing the Enter key with the highlight on a selection that is not a submenu or auto selection will cause a list of all options for that item to be displayed. Pressing the Enter key again will select the highlighted choice.

7. Pressing the [F9] key resets all items in the BIOS to the default values.
8. Pressing the [F10] key saves the current configuration and exits the BIOS Setup Utility. You will be asked to verify this selection before it is executed.
9. Pressing the [F1] key gives you a general help screen.

Entering the Setup Utility After a Configuration Change or System Failure

If there has been a change in the system configuration that does not agree with the parameter settings stored in your BIOS memory, or there is a failure in the system, the system beeps and/or displays an error message after the Power On Self Test (POST). If the failure is not too severe, it will give you an opportunity to modify the setup utility settings, as described in the following steps:

1. When you turn on or restart the computer there is a beep and/or the following message appears on the screen:

```
Error message - please run SETUP
program Press <F1> key to continue,
<F2> to run SETUP
```
2. If an error message is displayed on the screen, and you want to continue with the boot process and start the operating system anyway, press the [F1] key.



- If your notebook emits a series of beeps that sounds like a code and the display is blank, please refer to the Troubleshooting Section in the system User's Guide. The Troubleshooting Section includes a list of error messages and their meanings.
- If your data security settings require it, you may be asked for a password before the operating system will be opened.

3. If an error message is displayed on the screen, and you want to enter the setup utility, press the [F2] key.
4. When the setup utility starts with a fault present, the system displays the following message:
Warning!
Error message
[Continue]
5. Press any key to enter the setup utility. The system will then display the Main Menu with current parameters values.

MAIN MENU – SETTING STANDARD SYSTEM PARAMETERS

The Main Menu allows you to set or view the current system parameters. (See *Navigating through the Setup Utility on page 2 for more information.*)

The following tables show the names of the menu fields for the Main menu and its submenus, all of the options for each field, the default settings and a description of

the field's function and any special information needed to help understand the field's use.



System Time and System Date can also be set from your operating system without using the setup utility. Use the calendar and time icon on your Windows Control panel or type time or date from the MS-DOS prompt.

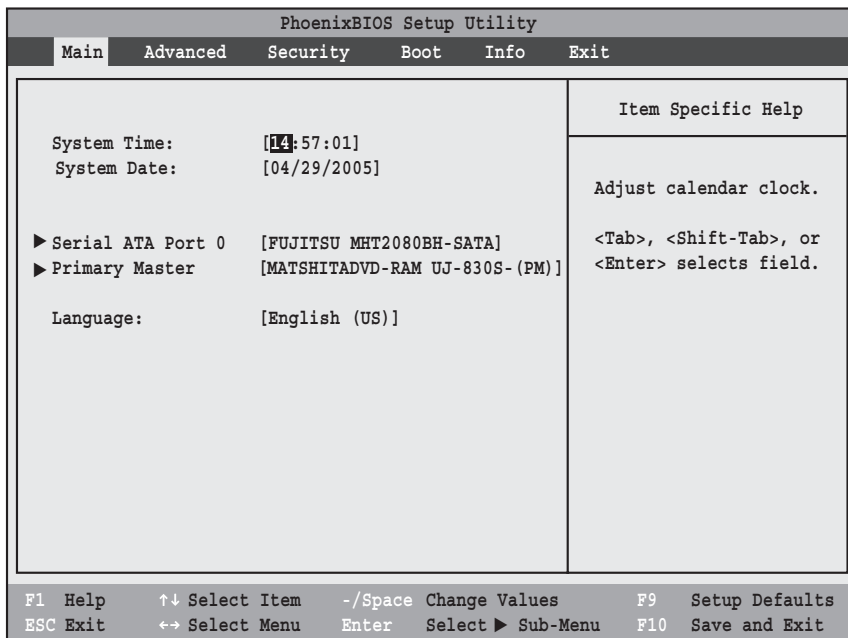


Figure 1. Main Menu

Table 1: Fields, Options and Defaults for the Main Menu

Note that the parameters listed in the following table may vary depending upon your system's configuration.

| Menu Field | Options | Default | Description |
|--------------|---------|---------|--|
| System Time: | — | — | Sets and displays the current time. Time is in a 24 hour format of hours:minutes:seconds with 2 digits for each. (HH:MM:SS). Example: 16:45:57. You may change each segment of the time separately. Move between the segments with the [Tab] key and/or [Shift] + [Tab] keys. |
| System Date: | — | — | Sets and displays the current date. Date is in a month/day/year numeric format with 2 digits each for month and day and 4 digits for year. (MM/DD/YYYY) for example: 03/20/1998. You may change each segment of the date separately. Move between the segments with the [Tab] key and/or [Shift] + [Tab] keys. |

Table 1: Fields, Options and Defaults for the Main Menu

Note that the parameters listed in the following table may vary depending upon your system's configuration.

| Menu Field | Options | Default | Description |
|--------------------|---|--|--|
| Serial ATA Port 0: | Selects Serial ATA Port 0 submenu | The product number of the ATA/IDE drive. | Display the type of device on this ATA/IDE interface, if there is one. Pressing the Enter key selects the Serial ATA Port 0 submenu allowing additional device configuration options for this interface. |
| Primary Master: | Selects Primary Master submenu | The product number of the hard drive. | Display the type of device on this ATA/IDE interface, if there is one. Pressing the Enter key selects the Primary Master submenu allowing additional device configuration options for this interface. |
| Language: | <ul style="list-style-type: none"> ▪ English (US) ▪ Japanese (JP) | [English (US)] | The default setting differs between the US/European and the Japanese model. Selects the display language for the BIOS. |

Serial ATA Port 0 Submenu of the Main Menu

The Serial ATA Port 0 submenu identifies what ATA devices are installed.

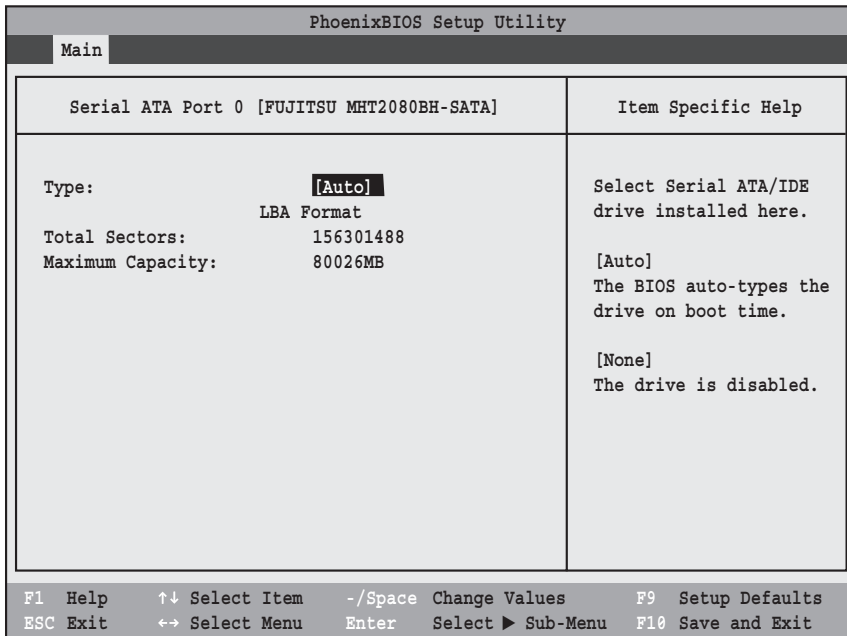


Figure 2. Serial ATA Port 0 Master Submenu

Table 2: Fields, Options and Defaults for the Serial ATA Port 0 Submenu of the Main Menu

| Menu Field | Options | Default | Description |
|-------------------|--|---------|--|
| Type: | <ul style="list-style-type: none"> ▪ Auto ▪ None | [Auto] | Selects the ATA/ATAPI device type. Select Auto to have the type automatically identified by the BIOS at POST. If None is selected, all of the following Setup items do not appear. |
| LBA Format | | | Logical Block Addressing (LBA) |
| Total Sectors: | --- | --- | The total number of sectors on your hard disk |
| Maximum Capacity: | --- | --- | The maximum capacity of your hard disk |

Primary Master Submenu of the Main Menu

The Primary Master submenu allows you to configure secondary ATA devices.

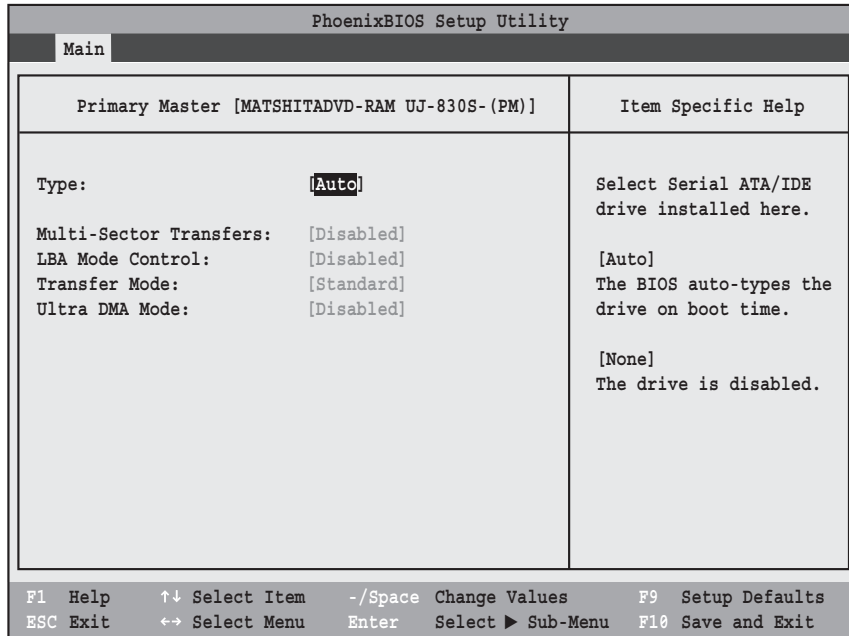


Figure 3. Primary Master Submenu

Table 3: Fields, Options and Defaults for the Primary Master Submenu of the Main Menu

| Menu Field | Options | Default | Description |
|-------------------------|---|------------|--|
| Type: | <ul style="list-style-type: none"> ▪ Auto ▪ None | [Auto] | <p>NOTE: The Type field does not appear as a drop-down menu. Tap the spacebar to cycle through the selections.</p> <p>Selects the ATA/ATAPI device type. Select Auto to have the type automatically identified by the BIOS at POST. If None is selected, all of the following setup items do not appear.</p> |
| Multi-Sector Transfers: | <ul style="list-style-type: none"> ▪ Disabled ▪ 2 Sectors ▪ 4 Sectors ▪ 8 Sectors ▪ 16 Sectors | [Disabled] | This option cannot be changed when Auto is selected. Specify the number of sectors per block for multiple sector transfer. |
| LBA Mode Control: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | Enables or disables Logical Block Addressing in place of Cylinder, Head, Sector addressing. This option cannot be changed when Auto is selected. |

Table 3: Fields, Options and Defaults for the Primary Master Submenu of the Main Menu

| Menu Field | Options | Default | Description |
|-----------------|--|------------|--|
| Transfer Mode: | <ul style="list-style-type: none"> ▪ Standard ▪ Fast PIO 1 ▪ Fast PIO 2 ▪ Fast PIO 3 ▪ Fast PIO 4 ▪ Multiword DMA 1 ▪ Multiword DMA 2 | [Standard] | Selects the method for moving data to/from the drive. Autotype the drive to select the optimum transfer mode. This option cannot be changed when Auto is selected. Multi-word DMA is automatically set to mode 1 for Fast PIO 1, Fast PIO 2, Fast PIO 3, and set to mode 2 for Fast PIO 4 / DMA. |
| Ultra DMA Mode: | <ul style="list-style-type: none"> ▪ Disabled ▪ Mode 0 ▪ Mode 1 ▪ Mode 2 ▪ Mode 3 ▪ Mode 4 ▪ Mode 5 | [Disabled] | Selects the method for moving data to/from the drive. Autotype the drive to select the optimum transfer mode. This option cannot be changed when Auto is selected. |

Exiting from Main Menu

When you have finished setting the parameters on this menu, you can either exit from the setup utility, or move to another menu. If you wish to exit from the setup utility, press the [Esc] key or use the cursor keys to go to the Exit menu. If you wish to move to another menu, use the cursor keys.

ADVANCED MENU – SETTING DEVICE FEATURE CONTROLS

The Advanced Menu allows you to:

- Set the I/O addresses for the serial and parallel ports.
- Set the keyboard and mouse features.
- Select between the display panel and an external CRT display.
- Enable or disable compensation for your display.
- Enable or disable the IDE, Mouse, LAN, and Wireless LAN controllers.

- Configure CPU and USB features in your system. (See *Navigating through the Setup Utility on page 2 for more information.*)

The following tables show the names of the menu fields for the Advanced Menu and its submenus, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use.

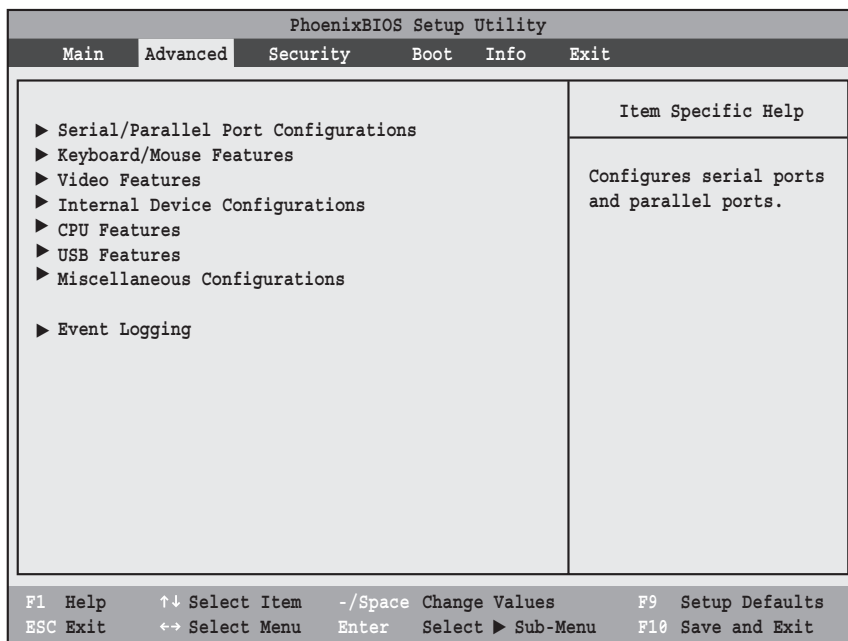


Figure 4. Advanced Menu

Table 4: Fields, Options and Defaults for the Advanced Menu

| Menu Field | Description |
|-------------------------------------|---|
| Serial/Parallel Port Configurations | When selected, opens the Serial/Parallel Port Configurations submenu which allows the user to modify settings for serial, infrared and parallel ports. |
| Keyboard/Mouse Features | When selected, opens the Keyboard/Mouse Features submenu, which allows setting external and internal keyboard and mouse parameters. |
| Video Features | When selected, opens the Video Features submenu, which allows setting of the display parameters, including routing of video signals to different displays. |
| Internal Device Configurations | When selected, opens the Internal Device Configuration submenu, which allows enabling or disabling the ATA, IDE, Bluetooth, Modem, LAN, and WLAN Controllers. |

Table 4: Fields, Options and Defaults for the Advanced Menu

| Menu Field | Description |
|------------------------------|--|
| CPU Features | When selected, opens the CPU Features submenu to allow you to change the CPU speed for battery life optimization. |
| USB Features | When selected, opens the USB Features submenu to allow you to enable or disable legacy USB devices and SCSI SubClass support. |
| Miscellaneous Configurations | When selected, opens the Miscellaneous Configurations submenu to allow you to enable or disable the power button, Wake Up On LAN, and control volume settings. |
| Event Logging | When selected, opens the event logging submenu. |

Serial/Parallel Port Configuration Submenu of the Advanced Menu

The Serial/Parallel Port Configuration submenu lets you set the I/O addresses and interrupt levels for the serial, infrared and parallel ports of your notebook.



I/O addresses, DMA channels and Interrupt levels can be entered in various ways, including via the BIOS setup utility, the control software for the I/O device, or the hardware. If any two ports or devices, serial or parallel, have the same address assigned, your notebook will not function normally. Keep a record of original settings before making any changes if restoration is required. See your hardware and software documentation as well as the setup utility to determine settings and limitations.



- To prevent IRQ and address conflicts, avoid changing the default settings. If you must change the settings, you can call 1-800-8Fujitsu for technical assistance.
- If your notebook emits a series of beeps that sounds like a code and the display is blank, refer to the Troubleshooting Section in the system User's Guide. The Troubleshooting Section includes a list of error messages and their meanings.
- All I/O addresses in Table 5 are in hexadecimal.

| PhoenixBIOS Setup Utility | |
|--|---|
| Advanced | |
| Serial/Parallel Port Configurations | Item Specific Help |
| Serial port: [Enabled] | [Disabled] The port is disabled. |
| I/O Address: [3F8 - 3FF] | |
| Interrupt: [IRQ 4] | |
| Infrared Port: [Enabled] | [Enabled] The port is enabled with user configuration. |
| Mode: [FIR] | |
| I/O Address: [2E8 - 2EF] | |
| Interrupt: [IRQ 3] | |
| I/O Address: [400 - 43F] | |
| DMA Channel: [DMA 3] | [Auto] Plug & Play OS configure the port. |
| Parallel Port: [Enabled] | |
| Mode: [Bi-directional] | |
| I/O Address: [378 - 37F] | |
| Interrupt: [IRQ 7] | |
| F1 Help ↑↓ Select Item -/Space Change Values F9 Setup Defaults ESC Exit ↔ Select Menu Enter Select ► Sub-Menu F10 Save and Exit | |

Figure 5. Serial/Parallel Port Configuration Submenu

Table 5: Fields, Options and Defaults for the Serial/Parallel Port Configuration Submenu of Advanced Menu

| Menu Field | Options | Default | Description |
|----------------|--|------------------|---|
| Serial Port: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled ▪ Auto | [Enabled] | Configures the serial port using either no configuration (Disabled), a user defined configuration (Enabled), or by allowing the BIOS or OS to choose the configuration (Auto). |
| I/O Address: | <ul style="list-style-type: none"> ▪ 3F8 - 3FF ▪ 2F8 - 2FF ▪ 3E8 - 3EF ▪ 2E8 - 2EF | [3F8 - 3FF] | Allows user to set the serial port base I/O address when serial port is Enabled. |
| Interrupt: | <ul style="list-style-type: none"> ▪ IRQ 3 ▪ IRQ 4 ▪ IRQ 10 ▪ IRQ 11 | [IRQ 4] | Allows user to set the serial port interrupt when serial port is Enabled. |
| Infrared Port: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled ▪ Auto | [Enabled] | Configures the infrared port using either no configuration (Disabled), a user defined configuration (Enabled), or by allowing the BIOS or OS to choose the configuration (Auto). |
| Mode: | <ul style="list-style-type: none"> ▪ IrDA ▪ FIR | [FIR] | When the infrared port is enabled this option is available allowing the user to set the mode for the infrared port. |
| I/O Address: | <ul style="list-style-type: none"> ▪ 3F8 - 3FF ▪ 2F8 - 2FF ▪ 3E8 - 3EF ▪ 2E8 - 2EF | [2E8 - 2EF] | Allows user to set the infrared port I/O address when the infrared port is Enabled. |
| Interrupt: | <ul style="list-style-type: none"> ▪ IRQ 3 ▪ IRQ 4 ▪ IRQ 10 ▪ IRQ 11 | [IRQ 3] | Allows user to set the infrared port interrupt when the infrared port is Enabled. |
| I/O Address: | <ul style="list-style-type: none"> ▪ 400 - 43F ▪ 480 - 4BF ▪ 500 - 53F ▪ 580 - 5BF | [400 - 43F] | Allows user to set the infrared port interrupt when Fast Infrared (FIR) mode is selected. |
| DMA Channel: | <ul style="list-style-type: none"> ▪ DMA 1 ▪ DMA 3 | [DMA 3] | Allows user to set the infrared port DMA Channel when the infrared port is Enabled. |
| Parallel Port: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled ▪ Auto | [Enabled] | Configures the parallel port using either no configuration (Disabled), a user defined configuration (Enabled), or by allowing the BIOS or OS to choose the configuration (Auto). |
| Mode: | <ul style="list-style-type: none"> ▪ Output Only ▪ Bi-directional ▪ ECP | [Bi-directional] | When the parallel port is enabled this option is available allowing the user to set the parallel port mode. Bi-directional allows two-way transfer of information between your notebook and a connected parallel device. Output Only (Half Duplex) allows information to be transferred in only one direction, from your notebook to the printer or similar device. ECP Mode allows communication with the ECP class of parallel I/O devices. |
| I/O address: | <ul style="list-style-type: none"> ▪ 378 - 37F ▪ 278 - 27F ▪ 3BC - 3BF | [378 - 37F] | Allows user to set the parallel port base I/O address when the parallel port is Enabled. |
| Interrupt: | <ul style="list-style-type: none"> ▪ IRQ 5 ▪ IRQ 7 | [IRQ 7] | Allows user to set the parallel port interrupt when the parallel port is Enabled. |

Keyboard/Mouse Features Submenu of the Advanced Menu

The Keyboard/Mouse Features submenu is for setting the parameters of the integrated and external mouse and keyboard.

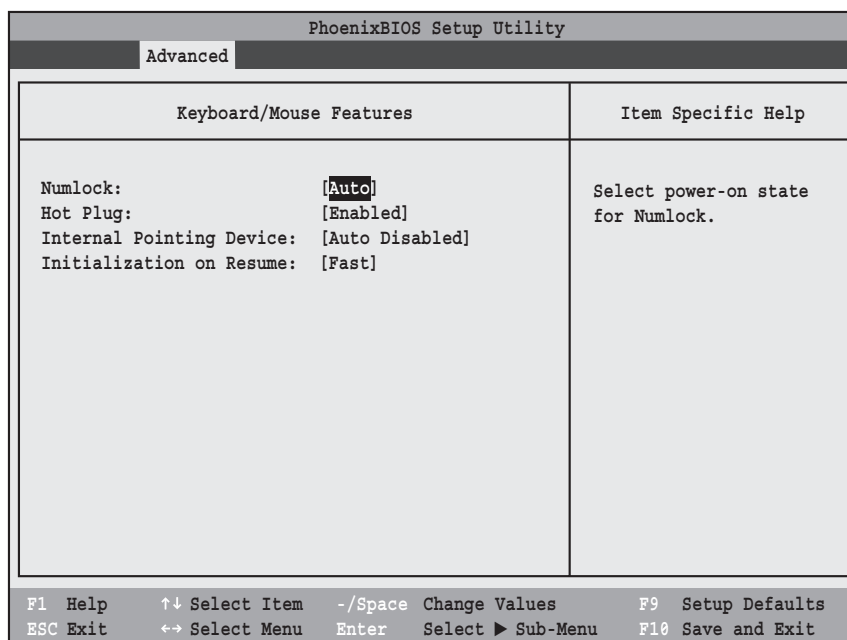


Figure 6. Keyboard/Mouse Features Submenu

Table 6: Fields, Options and Defaults for the Keyboard/Mouse Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|---------------------------|--|-----------------|--|
| Numlock: | <ul style="list-style-type: none"> ▪ Auto ▪ On ▪ Off ▪ On/Padlock Off | [Auto] | Sets the NumLock function state when the computer completes booting. |
| Hot Plug: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables and disables the ability to plug a mouse or keyboard into the PS/2 port and have it immediately recognized and activated. |
| Internal Pointing Device: | <ul style="list-style-type: none"> ▪ Auto Disabled ▪ Manual Setting ▪ Always Enabled ▪ Always Disabled | [Auto Disabled] | Sets the device controlling the mouse cursor on the screen. Always Enabled makes the pointing device always enabled whether there is an external mouse or not. Always Disabled makes the pointing device always disabled. Auto Disabled disables the internal pointing device when an external pointing device is connected to the PS/2 port. Manual Setting allows the device to be enabled or disabled using a HotKey. |
| Initialization on Resume: | <ul style="list-style-type: none"> ▪ Fast ▪ Normal | [Fast] | When Fast is selected, initialization for the external PS/2 devices is optimized to speed up on Resume. When Normal is selected, initialization is not optimized. |

Video Features Submenu of the Advanced Menu

The Video Features submenu is for setting the display parameters.

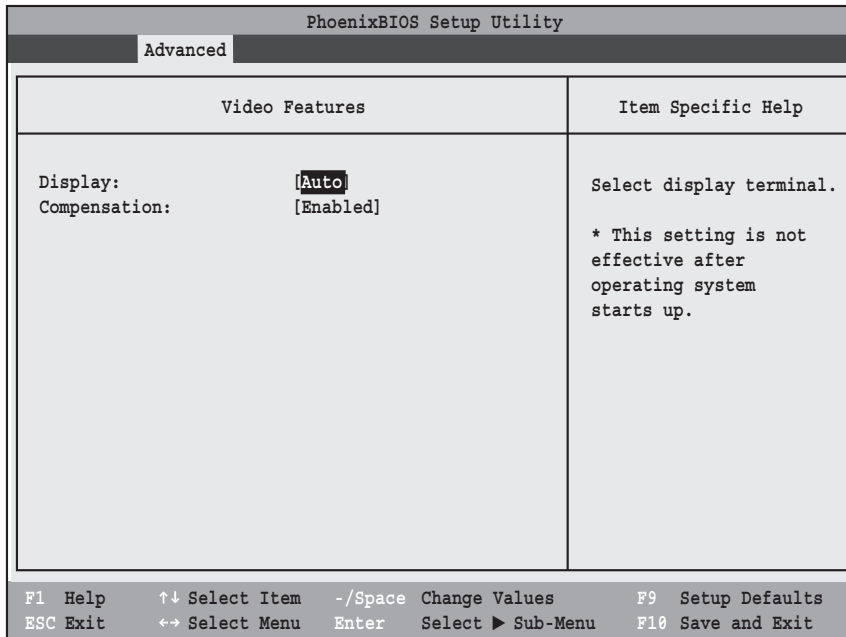


Figure 7. Video Features Submenu

Table 7: Fields, Options and Defaults for the Video Features Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|---------------|---|-----------|--|
| Display: | <ul style="list-style-type: none"> ▪ Internal Flat Panel ▪ External (Analog) ▪ External (Digital) ▪ Autos | [Auto] | Selects where the video signal will be routed. |
| Compensation: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables compensation which controls spacing on the display. When enabled, displays with less than pixel resolutions of 1024 x 768 or 800 x 600 will still cover the entire screen. A resolution below 800 x 600 will fill the screen, but due to the low resolution, will appear blocky and may not be acceptable. |

Internal Device Configurations Submenu of the Advanced Menu

The Internal Device Configuration submenu allows the user to enable or disable IDE, Modem, LAN and Wireless LAN Controllers.

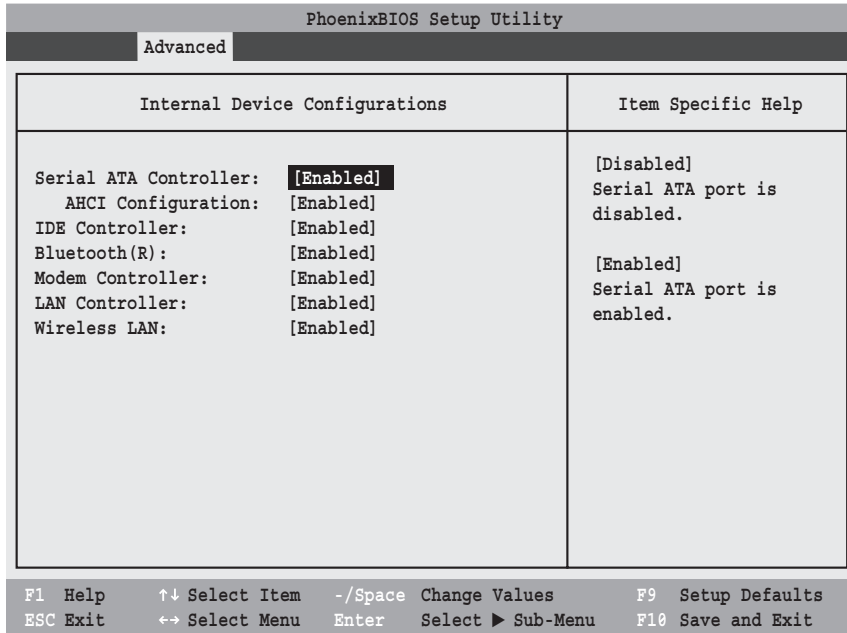


Figure 8. Internal Device Configuration Submenu

Table 8: Fields, Options and Defaults for the Internal Device Configuration Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|------------------------|---|-----------|---|
| Serial ATA Controller: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables the Serial ATA port. |
| AHCI Configuration: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables the selected Advanced Host Controller Interface (AHCI). |
| IDE Controller: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables selected IDE devices. |
| Modem Controller: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables Modem controller. |
| LAN Controller: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables the LAN controller. |
| Wireless LAN: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables the Wireless LAN controller. |

CPU Features Submenu of the Advanced Menu

The CPU Features submenu provides options for configuring the Intel SpeedStep power management features of the CPU.

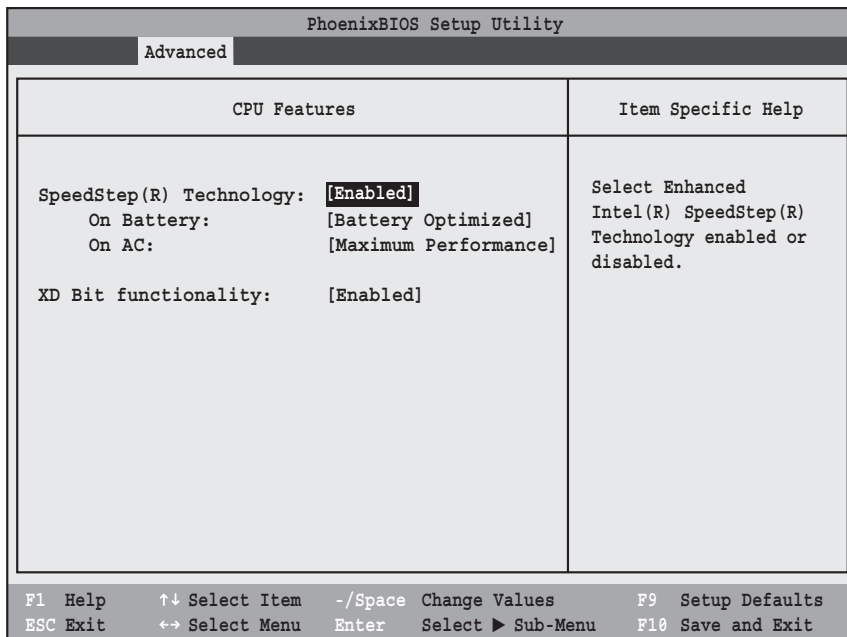


Figure 9. CPU Features Submenu

Table 9: Fields, Options and Defaults for the CPU Features Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|--------------------------|---|-----------------------|--|
| SpeedStep(R) Technology: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Enables or disables the SpeedStep(R) Technology features. When disabled, On Battery and On AC are disabled. |
| On Battery: | <ul style="list-style-type: none"> ▪ Maximum Performance ▪ Battery Optimized ▪ Automatic | [Battery Optimized] | When Maximum Performance is selected, CPU speed is maximized. When Battery Optimized is selected, CPU <i>power requirements</i> are optimized for battery operation. When Automatic is selected, the CPU speed is determined by the power source used. |
| On AC: | <ul style="list-style-type: none"> ▪ Maximum Performance ▪ Battery Optimized ▪ Automatic | [Maximum Performance] | When Maximum Performance is selected, CPU speed is maximized. When Battery Optimized is selected, CPU <i>power requirements</i> are optimized for battery operation. When Automatic is selected, the CPU speed is determined by the power source used. |
| XD Bit functionality: | <ul style="list-style-type: none"> ▪ Enabled ▪ Disabled | [Enabled] | Enables or disables the Execute Disable Bit feature. |

USB Features Submenu of the Advanced Menu

The USB Features submenu provides options for enabling or disabling the USB Floppy Disk Drive.

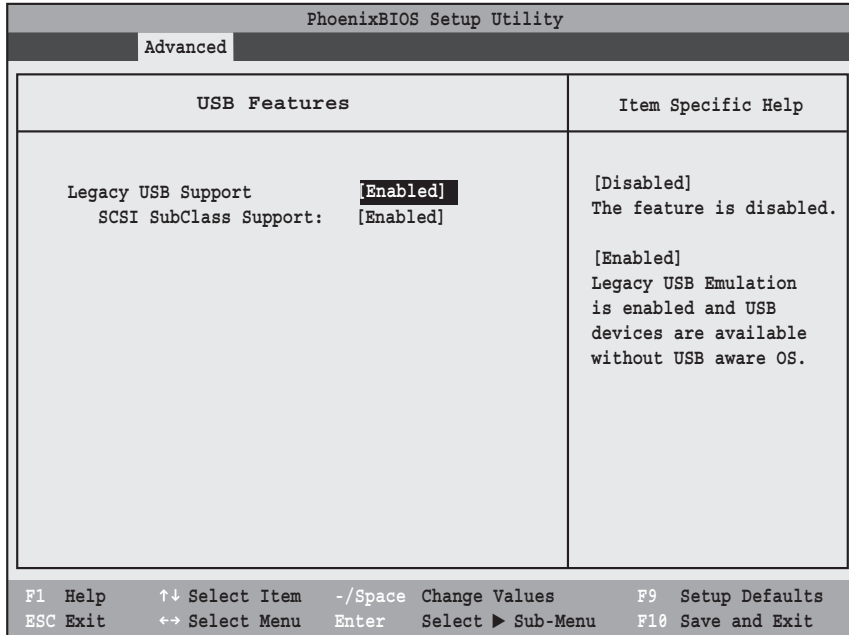


Figure 10. USB Features Submenu

Table 10: Fields, Options and Defaults for the USB Features Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|------------------------|---|-----------|---|
| Legacy USB Support: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | When Enabled is selected, Legacy USB Emulation is enabled and the USB devices are available without a USB-aware OS. When Disabled is selected, Legacy USB support is disabled. |
| SCSI SubClass Support: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | When Enabled is selected, USB devices that belong to the SCSI subclass in the mass storage class (e.g., USB Memory Key) are enabled. Note that enabling this feature may cause the system to hang during POST, depending on the device that is connected. |

Miscellaneous Configurations Submenu of the Advanced Menu

The Miscellaneous Configurations submenu provides options for enabling or disabling the power button and the Wake Up On LAN feature, and setting the volume and video memory size.

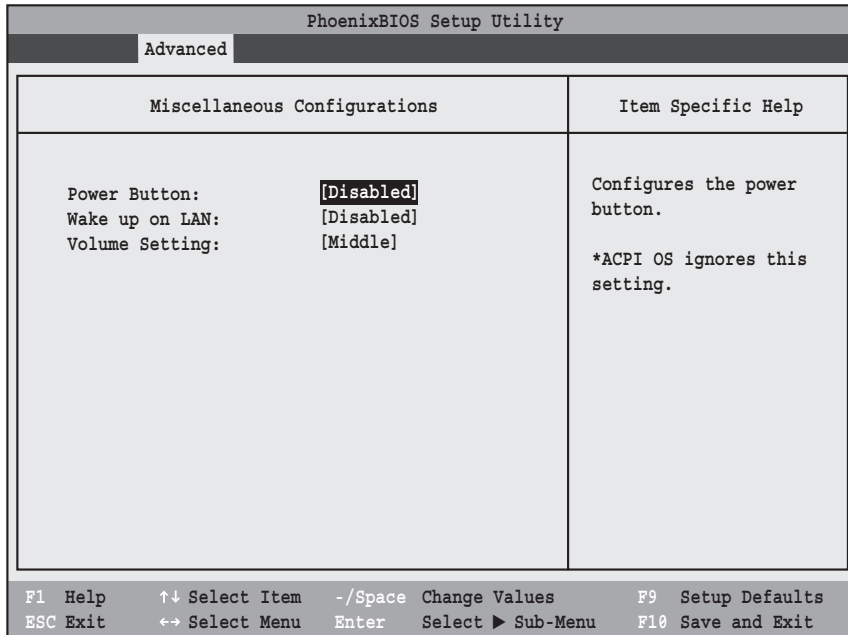


Figure 11. Miscellaneous Configurations Submenu

Table 11: Fields, Options and Defaults for the Miscellaneous Configurations Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|-----------------|---|------------|--|
| Power Button: | <ul style="list-style-type: none"> ▪ Disabled ▪ Power Off | [Disabled] | Selecting Disabled disables the power button. Selecting Power Off allows you to turn off system power with the power button. |
| Wake up on LAN: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | Selecting Enabled allows the system to wake up when the internal LAN device receives a specific signal while in power-off state. Selecting Disabled disables this feature. |
| Volume Setting: | <ul style="list-style-type: none"> ▪ Off ▪ Minimum ▪ Middle ▪ Maximum | [Middle] | Selects the initial volume setting for the system. |

Event Logging Submenu of the Advanced Menu

The Event Logging submenu configures event logging features for DMI events.

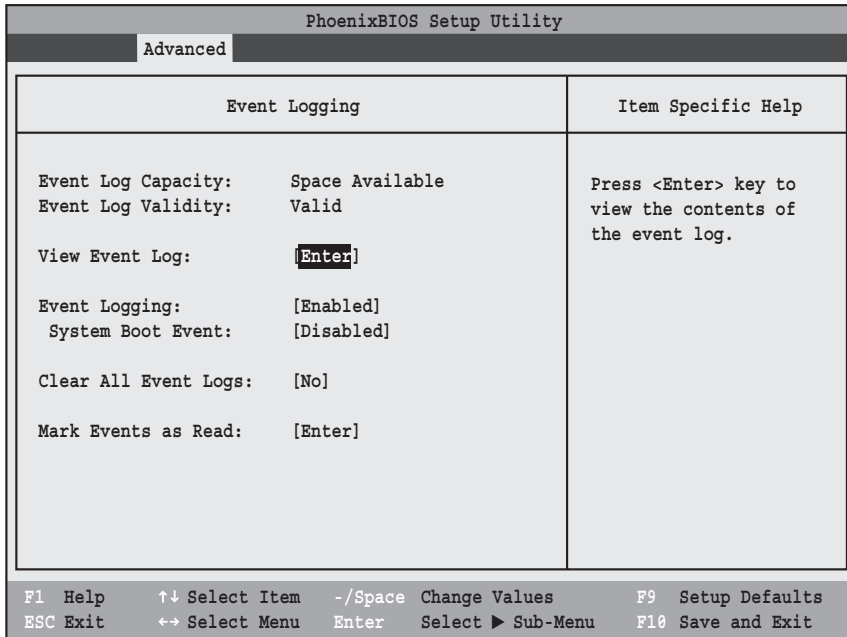


Figure 12. Event Logging Submenu

Table 12: Fields, Options and Defaults for the Event Logging Submenu of the Advanced Menu

| Menu Field | Options | Default | Description |
|-----------------------|---|-----------------|---|
| Event Log Capacity: | | Space Available | Display only |
| Event Log Validity: | | Valid | Display only |
| View Event Log: | <ul style="list-style-type: none"> ▪ Enter | [Enter] | Allows you to view content of event log |
| Event Logging: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Turns event logging on and off for all DMI events. |
| System Boot Event: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | Turns event logging on and off for DMI system boot events. |
| Clear All Event Logs: | <ul style="list-style-type: none"> ▪ No ▪ Yes | [No] | When set to [Yes] all event logs will be cleared at next boot. |
| Mark Events as Read: | <ul style="list-style-type: none"> ▪ Enter | [Enter] | Allows you to mark all events currently in the event log as having been read. |

SECURITY MENU – SETTING THE SECURITY FEATURES

The Security menu allows you to set up the data security features of your notebook to fit your operating needs and to view the current data security configuration. (See *Navigating through the Setup Utility on page 2 for more information.*)

The following tables show the names of the menu fields for the Security Menu and its submenus, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use. The default condition is no passwords required and no write protection.



If you set a password, write it down and keep it in a safe place. If you forget the password you will have to contact your support representative to regain access to your secured functions and data.



- Entering a password incorrectly 3 times in a row causes the keyboard and mouse to be locked out and the warning [System Disabled] to be displayed. If this happens, restart the computer by turning off and on the power with the power switch and use the correct password on reboot.
- If you make an error when re-entering the password a warning will display on the screen. To try again press [Enter], then retype the password. Press [Esc] to abort the password setting process.
- If the Power Management Security is Enabled and the Password on Boot is Disabled you will not have to type your password upon resuming the system from the Suspend or Save-to-Disk modes. Power Management Security will work only if Password boot is enabled.
- Boot sector protection must be set to [Normal] to install or upgrade an operating system.

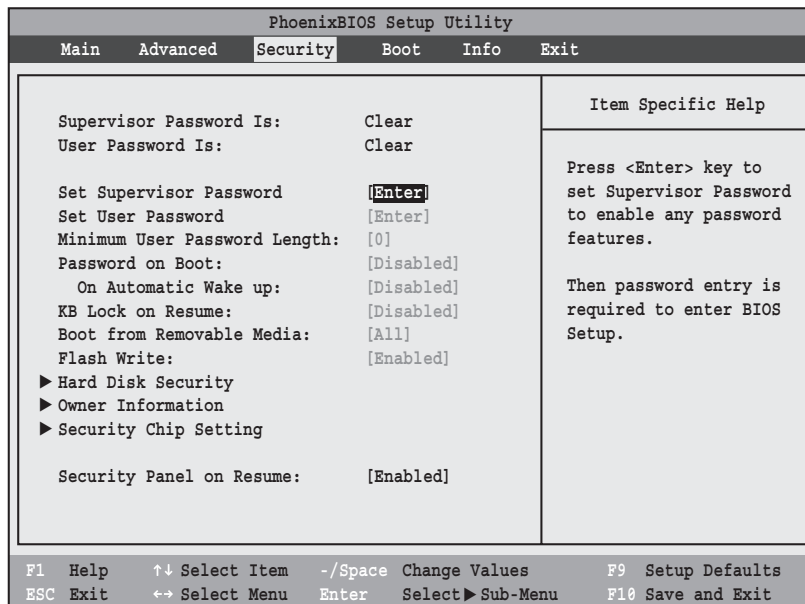


Figure 13. Security Menu

Table 13: Fields, Options and Defaults for the Security Menu

| Menu Field | Options | Default | Description |
|-------------------------------|--|------------|--|
| Supervisor Password is: | — | Clear | A display-only field. Set is displayed when the system supervisor password is set and Clear when it is not. |
| User Password is: | — | Clear | A display-only field. Set is displayed when the general user password is set, and Clear when it is not. |
| Set Supervisor Password | — | [Enter] | Sets, changes or cancels the Supervisor Password. The Supervisor Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. To cancel a password press the Enter key instead of entering characters in the Enter New Password field and in the Re-enter New Password field. When a Supervisor Password is set it must be used to access the BIOS setup utility. |
| Set User Password | — | [Enter] | This field can only be accessed if the Supervisor Password is set. Sets, changes or cancels the User Password. A User Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. To cancel a password press [Enter] key instead of entering characters in the Enter New Password field and in the Re-enter New Password field. When a User Password is set it must be used to access the BIOS setup utility. |
| Minimum User Password Length: | — | [0] | Supervisor can set password length (0 to 8) for user password. User cannot set a password shorter than the minimum length. |
| Password on Boot: | <ul style="list-style-type: none"> ▪ Disabled ▪ First Boot ▪ Every Boot | [Disabled] | When set to First Boot, a password (User or Supervisor) is required just once after the Power On Self Test (POST) before the operating system will be read from a disk. When set to Every Boot, a password (User or Supervisor) is required every time after the Power On Self Test (POST) before the operating system will be read from a disk. When set to Disabled no password is required. |
| On Automatic Wake up: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | When disabled, password entry is not required when the system wakes up automatically. When enabled, password entry is required upon wake up. |
| KB Lock on Resume: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | When set to Enabled, the PS/2 mouse and keyboard inputs are locked out upon Resume from Suspend or Save to Disk mode until you enter the password. When set to Disabled no password is required. If no Supervisor Password is set, this feature is not available and no password is required. |
| Boot from Removable Media: | <ul style="list-style-type: none"> ▪ All ▪ Supervisor only | [All] | Supervisor only allows access to boot the computer to removable media after the Supervisor Password is entered. |
| Flash Write: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | When disabled, the BIOS Flash memory will be write protected. |
| Hard Disk Security: | — | — | Configures hard disk security features |
| Owner Information: | — | — | Sets Owner information. |
| Security Chip Setting | — | — | Opens the Security Chip Setting submenu to configure the Security Chip. |
| Security Panel on Resume: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | Enabled | Enables or disables the Security Panel feature upon Resume from Suspend. |

Exiting from the Security Menu

When you have finished setting the parameters on the Security Menu, you can either exit from setup utility or move to another menu. If you wish to exit from setup utility, press the [Esc] key to go to the Exit Menu. If you wish to move to another menu, use the cursor keys.

Hard Disk Security Submenu of the Security Menu

The Hard Disk Security submenu is for configuring hard disk security features.

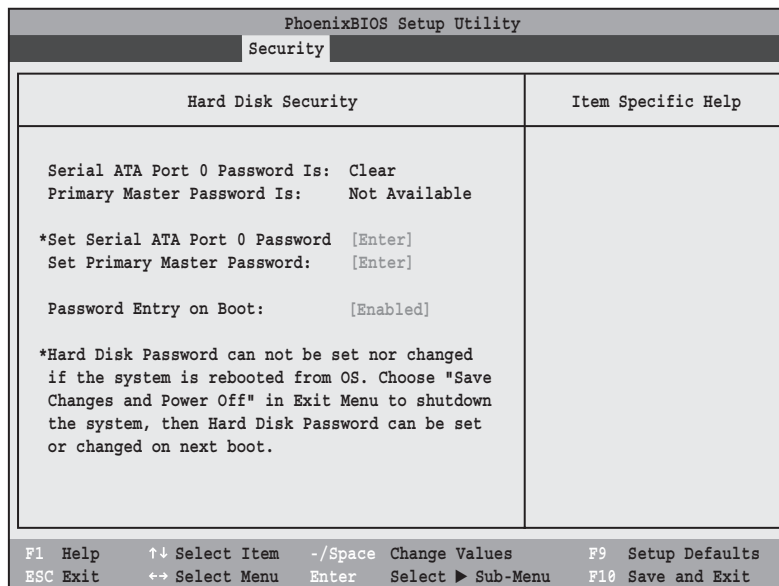


Figure 14. Hard Disk Security Submenu

Table 14: Fields, Options and Defaults for the Hard Disk Security Submenu of the Security Menu

| Menu Field | Options | Default | Description |
|---------------------------------|---|---------------|---|
| Serial ATA Port 0 Password Is: | — | Clear | Display-only. Default is Clear. When the Primary Master Password has been set, the field changes to Set. When this password is set, the primary hard disk drive cannot be used in another system unless the password is entered. |
| Primary Master Password Is: | — | Not Available | Display-only. Default is Not Available. When Secondary Master Password has been set, the field changes to Set. When this password is set, the secondary (modular) hard disk drive cannot be used in another system unless the password is entered. |
| Set Serial ATA Port 0 Password: | — | [Enter] | Sets, changes or cancels the Serial ATA Port 0 Password. The Serial ATA Port 0 Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. When a Serial ATA Port 0 Password is set, it must be used to access the hard drive if it is used in another system. Note that the password will not take effect until the system has been rebooted. Note that the hard disk password cannot be set or changed if the system is rebooted from the OS. Choose "Save Changes and Power Off" in the Exit menu to shut down the system, then the password can be set or changed on the next boot. |
| Set Primary Master Password: | — | [Enter] | Sets, changes or cancels the Primary Master Password. The Primary Master Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. When a Primary Master Password is set, it must be used to access the modular hard drive if it is used in another system. Note that the password will not take effect until the system has been rebooted. |
| Password Entry on Boot: | <ul style="list-style-type: none"> ■ Disabled ■ Enabled | [Enabled] | When set to disabled, entry of a Hard Disk Password is not required before OS boot. (The hard disk is still password-protected without password entry.) |

Owner Information Submenu of the Security Menu

The Owner Information submenu is for setting owner information. Note that the owner information cannot be set without having entered a Supervisor Password.

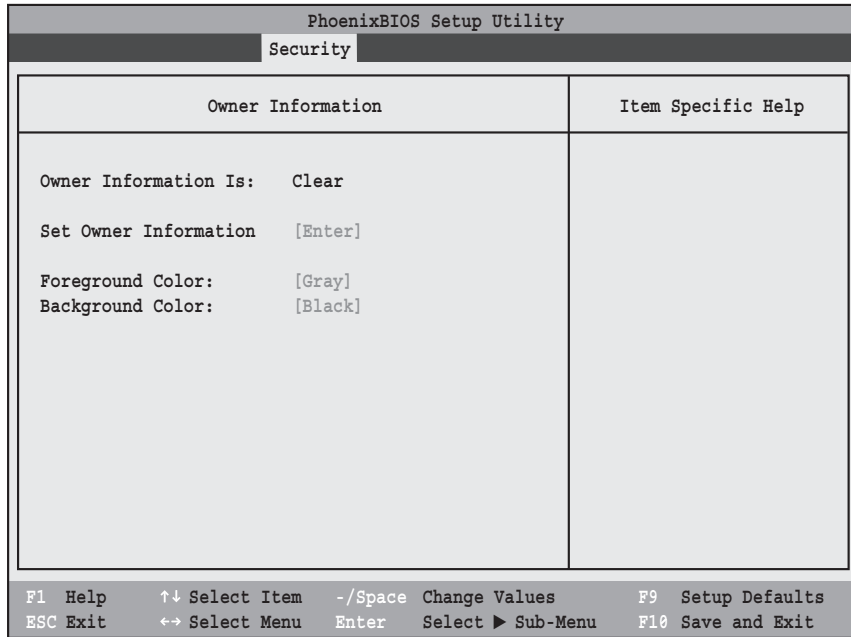


Figure 15. Owner Information Submenu

Table 15: Fields, Options and Defaults for the Owner Information Submenu of the Security Menu

| Menu Field | Options | Default | Description |
|------------------------|---|---------|---|
| Owner Information Is: | — | Clear | Display only. |
| Set Owner Information: | — | [Enter] | Field to write owner information, (i.e., name). |
| Foreground Color: | <ul style="list-style-type: none"> ▪ Black ▪ Blue ▪ Green ▪ Cyan ▪ Red ▪ Magenta ▪ Brown ▪ White ▪ Gray ▪ Light Blue ▪ Light Green ▪ Light Cyan ▪ Light Red ▪ Light Magenta ▪ Yellow ▪ Bright White | [Gray] | Set foreground color. |
| Background Color: | <ul style="list-style-type: none"> ▪ Black ▪ Blue ▪ Green ▪ Cyan ▪ Red ▪ Magenta ▪ Brown ▪ White ▪ Gray ▪ Light Blue ▪ Light Green ▪ Light Cyan ▪ Light Red ▪ Light Magenta ▪ Yellow ▪ Bright White | [Black] | Set background color. |

Security Chip Setting Submenu of the Security Menu

The Security Chip Setting submenu is used to enable or disabled the embedded security chip.

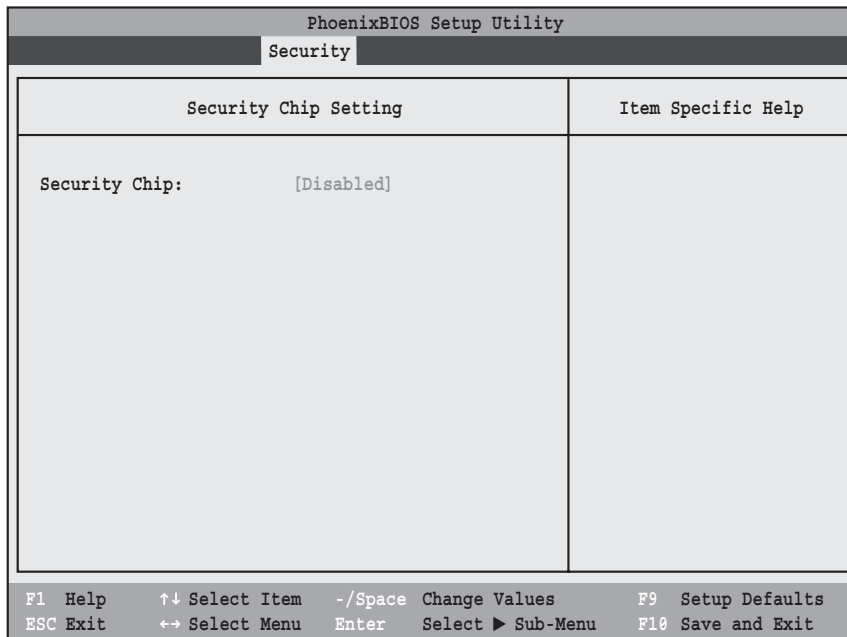


Figure 16. Security Chip Setting Submenu

| Menu Field | Options | Default | Description |
|----------------|---|------------|---|
| Security Chip: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | Allows you to enable or disable the security chip. Note that this is only active if a Supervisor Password has been entered. A reboot is required after exit to configure the Security Chip correctly. Clear Security Chip option becomes selectable after reboot. |

BOOT MENU – SELECTING THE OPERATING SYSTEM SOURCE

The Boot Menu is used to select the order in which the BIOS searches sources for the operating system. Follow the instructions for Navigating Through the Setup Utility to make any changes. (See *Navigating through the Setup Utility* on page 2 for more information.)

The following tables show the names of the menu fields for the Boot menu and its submenu, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use.

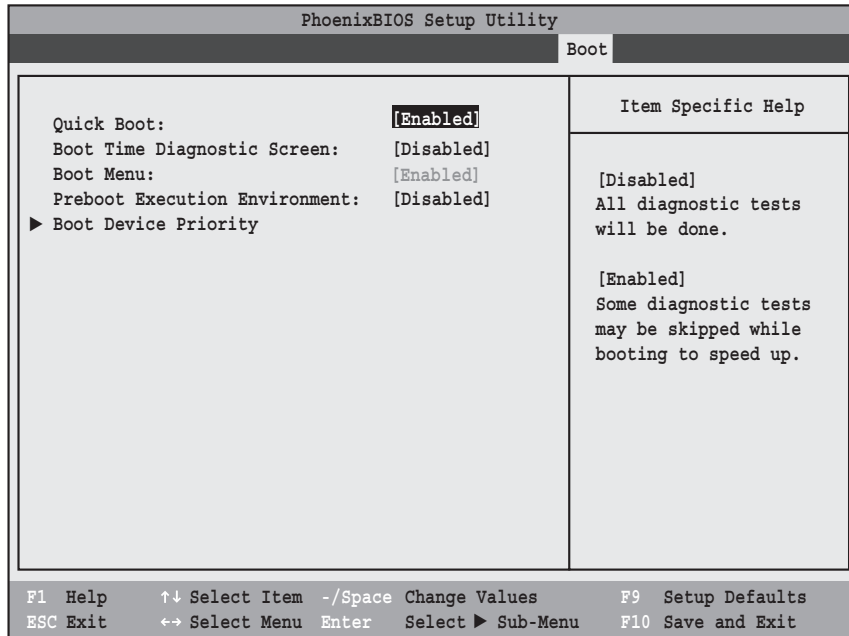


Figure 17. Boot Menu

Table 17: Fields, Options and Defaults for the Boot Menu

| Menu Field | Options | Default | Description |
|--------------------------------|---|------------|---|
| QuickBoot: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | Turns on and off booting with a truncated set of Power On Self Test. (Fewer tests mean faster startup.) |
| Boot-time Diagnostic Screen: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | Turns on and off display of test results instead of Fujitsu logo screen during Power On Self Test. |
| Boot Menu: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Enabled] | When Disabled, the Boot Menu is disabled and the [F12] key is ignored. When Enabled, the Boot Menu is enabled. |
| Preboot Execution Environment: | <ul style="list-style-type: none"> ▪ Disabled ▪ Enabled | [Disabled] | Turns on and off the preboot execution environment feature. |
| Boot Device Priority | — | — | This menu allows setting up the source for the operating system. See "The Boot Device Priority Submenu" in the following section. |

Boot Device Priority Submenu of the Boot Menu

The Boot Device Priority submenu is for setting the order of checking of sources for the operating system.



- Be careful of the operating environment when booting from a CD-ROM or you may overwrite files by mistake.
- A bootable CD-ROM has either a floppy disk format or a hard drive format. When the bootable CD-ROM is used, the drive allocations change automatically without changing the BIOS setup. If a floppy disk format is used, the CD-ROM becomes Drive A. The CD-ROM will only take drive C: (hard drive format) if the internal hard drive is not present or is disabled. The bootable CD-ROM can never use a C: designation if a formatted internal hard drive is present since the C: designator is always reserved for the internal hard drive. The boot sequence ignores the new drive designations, however, your application software will use the new designations.

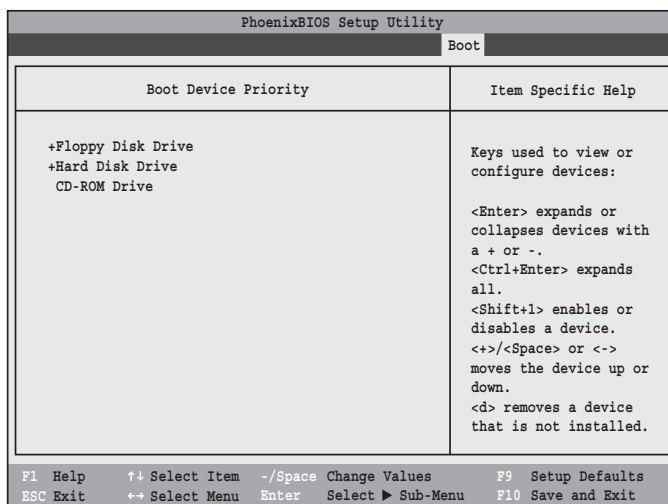


Figure 18. Boot Device Priority Submenu

Table 18: Fields, Options and Defaults for the Boot Device Priority Submenu of the Boot Menu

| Menu Field | Description |
|--|--|
| +Floppy Disk Drive +Hard Disk Drive CD-ROM Drive | <p>The boot selections determine the order in which the BIOS searches for the operating system during a startup sequence. To view all devices related to a source, press [Enter]; to view all devices related to all sources, press [Ctrl] + [Enter]. To change the order, highlight one source by using the [up] or [down] cursor keys and then press the [+] or [-] key to change the order number. [Shift] + [1] enables a device. Tapping [d] removes from the list a device that is not installed. Be sure to save your changed order when you exit the BIOS setup utility.</p> <p>NOTE: Be aware that if you use the CD-ROM drive as the first boot device, certain files may be overwritten, depending upon your operating environment.</p> |

Exiting from Boot Menu

When you have finished setting the boot parameters with the Boot Menu, you can either exit from the setup utility or move to another menu. If you wish to exit from the setup utility press the [Esc] key to go to the Exit Menu. If you wish to move to another menu, use the cursor keys.

INFO MENU - DISPLAYS BASIC SYSTEM INFORMATION

The Info Menu is a display only screen that provides the configuration information for your notebook.

The following table shows the names of the menu fields for the Info menu and the information displayed in those fields. These fields are for information purposes

only, and cannot be modified by the user (except for the Asset Number as in the Point below).



The information, including CPU type and speed, and total memory, displayed on this screen varies according to the unit you purchased.

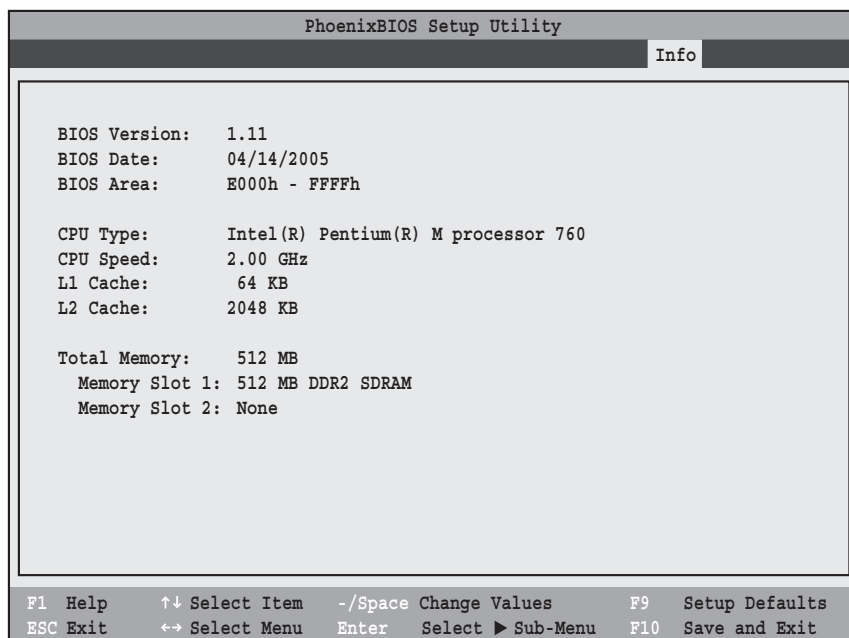


Figure 19. Info Menu

Table 19: Fields, Options and Defaults for the Info Menu

Note that the parameters listed in the following table may be different, depending upon the system configuration.

| Menu Field | Default | Menu Field | Default |
|---------------|-------------------------------------|----------------|-------------------|
| BIOS Version: | 1.11 | L1 Cache: | 64 KB |
| BIOS Date: | 04/14/2005 | L2 Cache: | 2048 KB |
| BIOS Area: | E000h - FFFFh | Total Memory: | 512 MB |
| CPU Type: | Intel(R) Pentium(R) M processor 760 | Memory Slot 1: | 512 MB DDR2 SDRAM |
| CPU Speed: | 2.00 GHz | Memory Slot 2: | None |

EXIT MENU – LEAVING THE SETUP UTILITY

The Exit Menu is used to leave the setup utility. Follow the instructions for Navigating Through the Setup Utility to make any changes. (See *Navigating through the Setup Utility* on page 2 for more information.)

The following table shows the names of the menu fields for the Exit menu, the default settings and a description of the field's function and any special information needed to help understand the field's use.

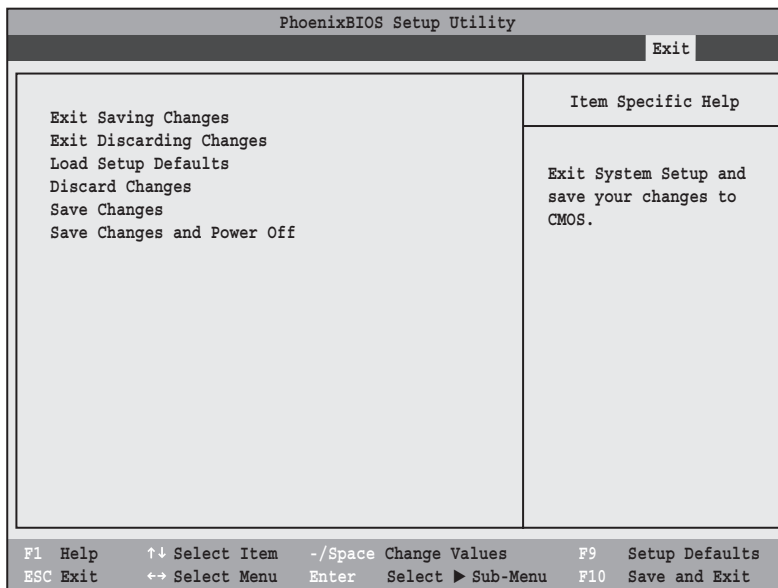


Figure 20. Exit Menu

Table 20: Fields, Options and Defaults for the Exit Menu

| Menu Field | Description |
|----------------------------|---|
| Exit Saving Changes | Exit Saving Changes and Exit will store all the entries on every menu of the setup utility to the BIOS memory, then exit the utility. A confirmation message <i>Save Configuration changes and exit now? [Yes][No]</i> is displayed. |
| Exit Discarding Changes | Selecting Exit Discarding Changes and Exit will exit the setup utility with out writing to the BIOS memory. When the BIOS recognizes this selection it will load the operating system and begin operation. |
| Load Setup Defaults | Selecting Load Setup Defaults will load the factory preset default values for all menu fields, then display the message <i>Load default configuration now? [Yes] [No]</i> . When confirmed the setup utility will return to the Exit Menu. To return to another menu follow the directions in the Navigating Through the Setup Utility Section. |
| Discard Changes | Selecting Discard Changes will load the previous values in BIOS memory for all menu fields. The message <i>Load previous now? [Yes] [No]</i> will be displayed. When confirmed the setup utility will return to the Exit menu. To return to another menu, follow the directions in the Navigating Through the Setup Utility Section. |
| Save Changes | Selecting Save Changes will cause the new settings in all menus to be written to the BIOS memory. The message <i>Save configuration changes now? [Yes] [No]</i> will be displayed. When confirmed, the setup utility will return to the Exit menu. To return to another menu, follow the directions in the Navigating Through the Setup Utility section. |
| Save Changes and Power Off | Selecting Save Changes and Power Off will cause the new settings in all menus to be written to the BIOS memory. The message <i>Save configuration changes and power off now? [Yes] [No]</i> will be displayed. When confirmed, the system will shut down. If No is selected, the system will return to the Exit menu. To return to another menu, follow the directions in the Navigating Through the Setup Utility section. |

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