

Fujitsu LifeBook T Series **BIOS Guide**

LifeBook T Series Model:
T1010 with UMTS

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FUJITSU COMPUTER SYSTEMS CORPORATION

T 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 (or use the TrustedCore Menu, as detailed in the next section):

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.

Using the TrustedCore Menu

When the Fujitsu logo appears on the screen, press the [Enter] key or click on the left mouse or touchpad button; the TrustedCore Menu will appear.

The TrustedCore Menu provides shortcuts to the following menus and information screens:

- BIOS Setup
- Diagnostic Screen
- Boot Menu
- Patent Information
- System Information
- Continue Booting

Clicking on any of the fields will invoke the screen, information, or action described.

The Boot Menu can also be invoked by pressing the [F12] key when the Fujitsu logo appears on the screen.

Navigating through the Setup Utility

The BIOS setup utility consists of six menus: Info, System, Advanced, Security, Boot, 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 lower selection and [F5] or [-] to go to the next higher 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.

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- 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.
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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 Info Menu with current parameters values.

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.



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

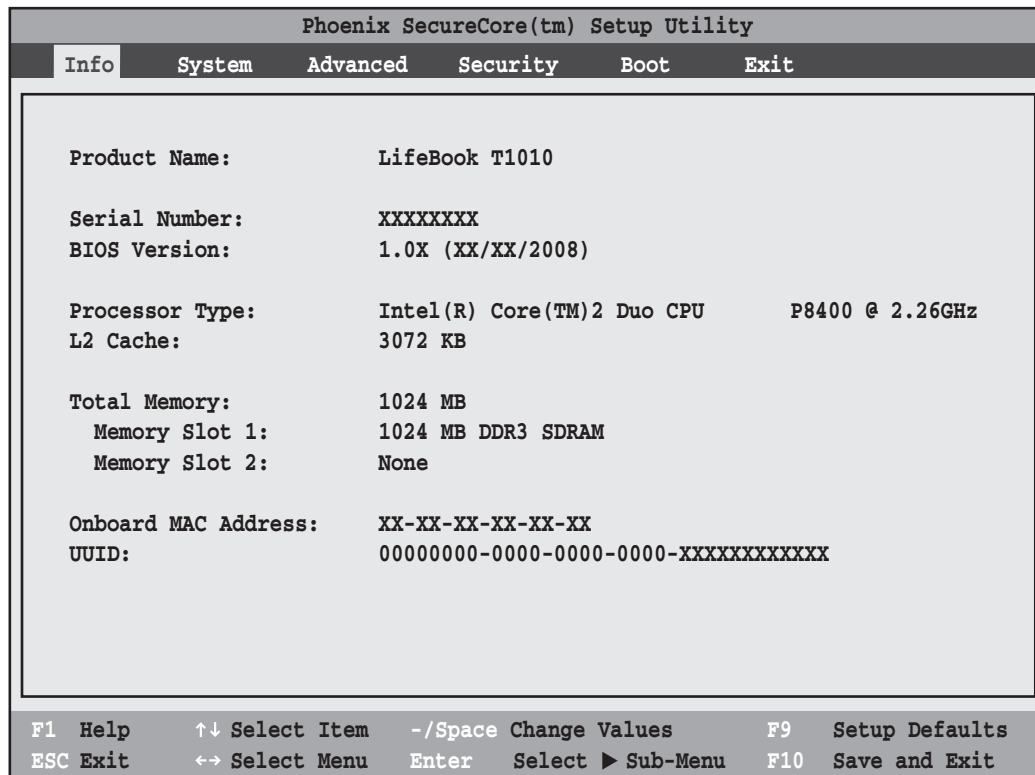


Figure 1. Info Menu

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

Menu Field	Default	Menu Field	Default
Note that all of the fields on this screen are display only and are for reference. Note that the parameters listed may be different for your system , depending upon the system configuration.			
Product Name:	LifeBook T1010	Total Memory:	1024 MB
Serial Number:	XXXXXXXX	Memory Slot 1:	1024 MB DDR2 SDRAM
BIOS Version:	1.0 (XX/XX/2008)	Memory Slot 2:	None
Processor Type:	Intel(R) Core(TM)2 Duo CPU P8400 @ 2.26GHz	Onboard MAC Address:	XX-XX-XX-XX-XX-XX
L2 Cache:	3072 KB	UUID:	00000000-0000-0000-0000-XXXXXXXXXXXX

SYSTEM MENU – SETTING STANDARD SYSTEM PARAMETERS

The System 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 System 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 Date and Time icon on your Windows Control panel or type time or date from the MS-DOS prompt.

Phoenix SecureCore(tm) Setup Utility		
Info	System	Advanced Security Boot Exit
System Time: [14:57:01] System Date: [01/14/2009]		Item Specific Help
▶ Drive0 [FUJITSU MHZ2080BH G2] ▶ Drive1 [MATSHITADVD-RAM UJ870BJ]		Adjust calendar clock. <Tab>, <Shift-Tab>, or <Enter> selects field.
Language: [English (US)]		
F1 Help ↑↓ Select Item -/Space Change Values F9 Setup Defaults ESC Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit		

Figure 2. System Menu

Table 2: Fields, Options and Defaults for the System 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: 03/20/2007. You may change each segment of the date separately. Move between the segments with the [Tab] key and/or [Shift] + [Tab] keys.

Table 2: Fields, Options and Defaults for the System Menu

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

Menu Field	Options	Default	Description
Drive0	Selects the Drive0 Serial ATA drive submenu	The product number of the hard drive.	Display the type of device on this ATA/IDE interface. Pressing the Enter key selects the Serial ATA Drive0 submenu allowing additional device configuration options for this interface.
Drive1:	Selects the Drive1 Serial ATA drive submenu	The product number of the optical drive.	Display the type of device on this ATA/IDE interface, if there is one. Pressing the Enter key selects the Serial ATA Drive1 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.

Drive0 Submenu of the System Menu

The Drive0 submenu identifies what ATA devices are installed.

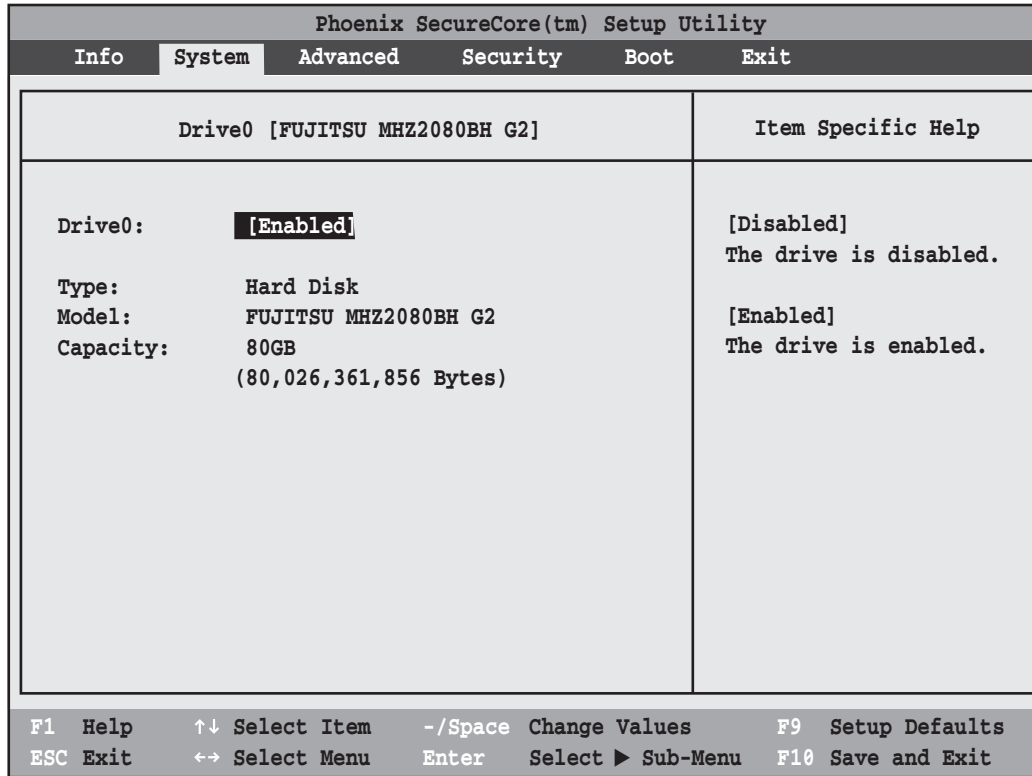


Figure 3. Drive0 Master Submenu

Table 3: Fields, Options and Defaults for the Drive0 Submenu of the System Menu

Menu Field	Options	Default	Description
Drive0:	<ul style="list-style-type: none"> Disabled Enabled 	[Enabled]	Allows you to enable or disable the hard drive 0.
Type:	---	---	Information only: Displays the type of hard disk installed as drive 0.
Model:	---	---	Information only: Displays the model of hard disk installed as drive 0.
Capacity	---	---	Information only: Displays the capacity of hard disk installed as drive 0.

Drive1 Submenu of the System Menu

The Drive1 submenu allows you to configure secondary ATA devices.

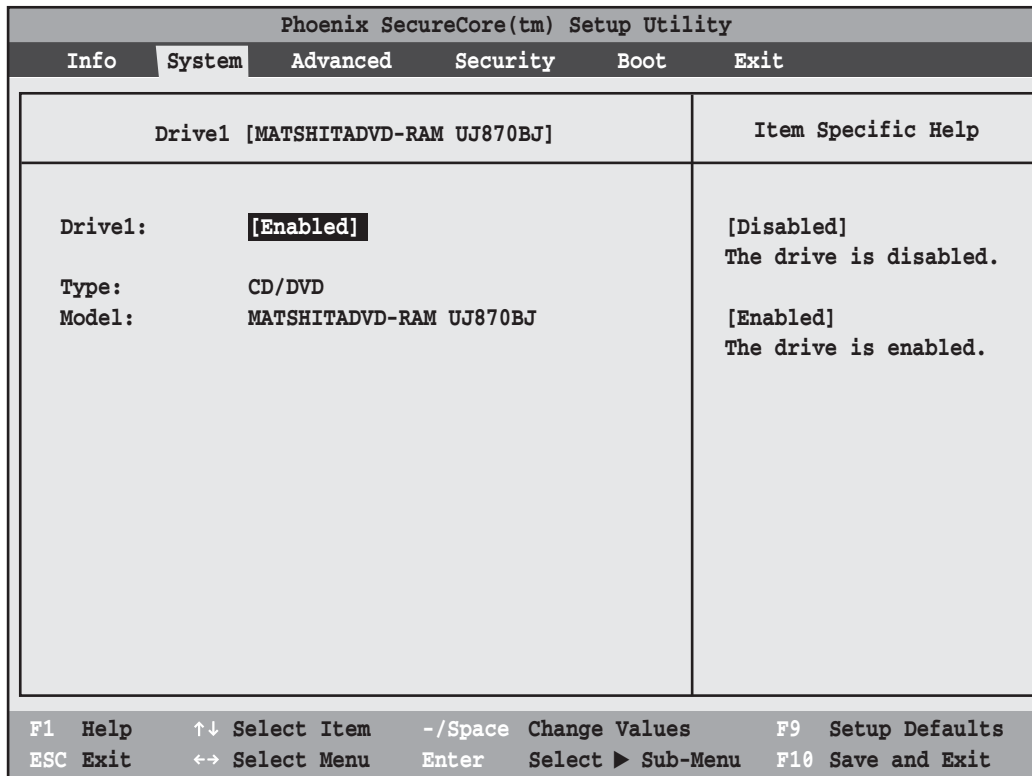


Figure 4. Drive1 Submenu

Table 4: Fields, Options and Defaults for the Drive1 Submenu of the System Menu

Menu Field	Options	Default	Description
Drive1:	<ul style="list-style-type: none"> ■ Disabled ■ Enabled 	[Enabled]	Allows you to enable or disable the drive 1.
Type:	---	---	Information only: Displays the type of device installed as drive 1.
Model:	---	---	Information only: Displays the model of device installed as drive 1.

Exiting from System 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 keyboard and mouse features.
- Select between the display panel and an external 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.

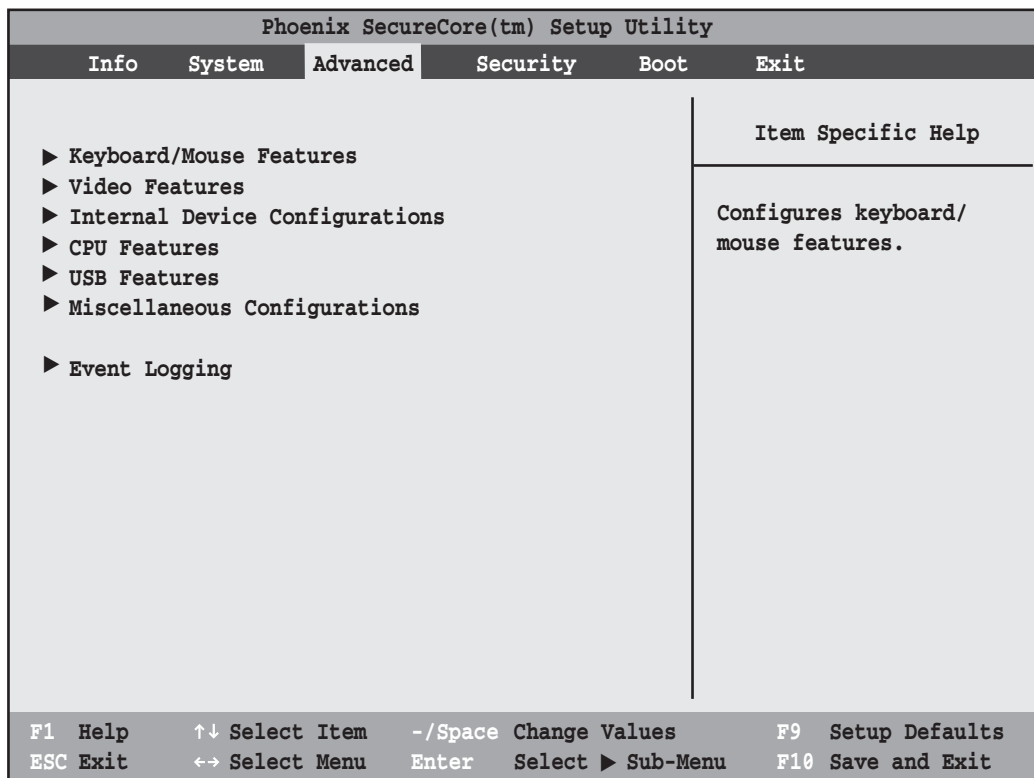


Figure 5. Advanced Menu

Table 5: Fields, Options and Defaults for the Advanced Menu

Menu Field	Description
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, Bluetooth, LAN, WLAN, UMTS and internal camera controllers.
CPU Features	When selected, opens the CPU Features submenu to allow you to change the CPU speed for battery life optimization.

Table 5: Fields, Options and Defaults for the Advanced Menu

Menu Field	Description
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.

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.

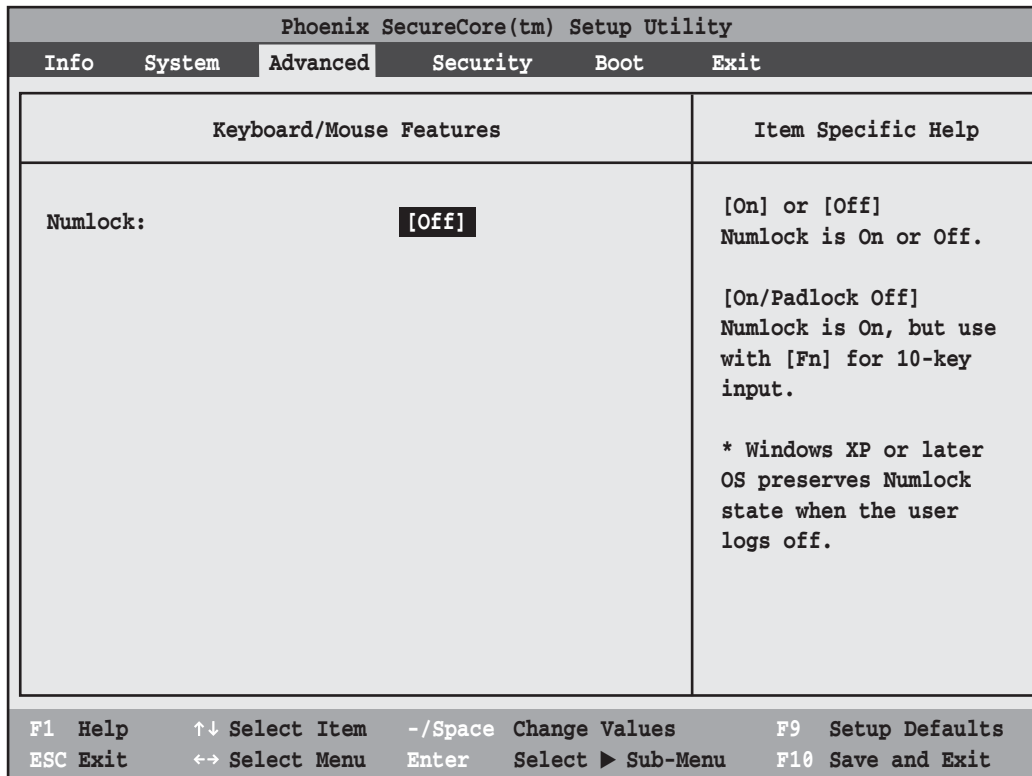


Figure 6. Keyboard/Mouse Features Submenu

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"> On Off On/Padlock Off 	[Off]	Sets the NumLock function state when the computer completes booting. When [On] or [Off], Numlock is on or off. When [On/Padlock Off] is selected, Numlock is on, but [Fn] key must be pressed used for 10-key input. Windows XP (or later OS) preserves Numlock state when the user logs off.

Video Features Submenu of the Advanced Menu

The Video Features submenu is for setting the display parameters.

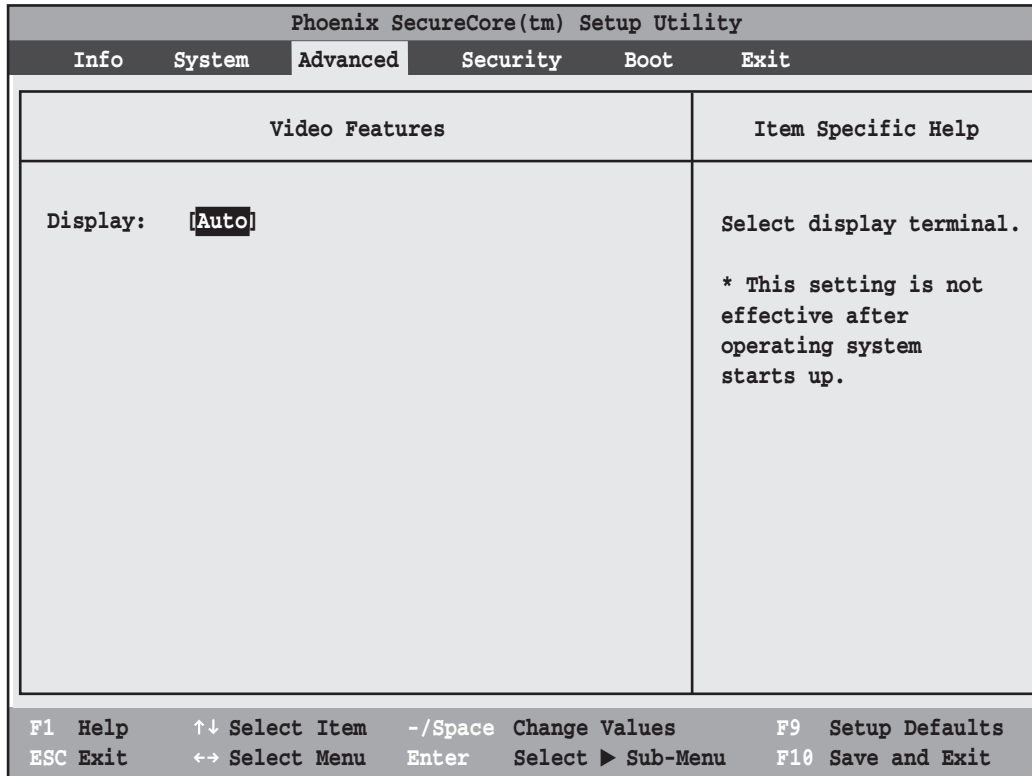


Figure 7. Video Features Submenu

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) ■ Auto 	[Auto]	Selects where the video signal will be routed. Note that this setting is overridden after Windows starts up.

Internal Device Configurations Submenu of the Advanced Menu

The Internal Device Configuration submenu allows the user to enable or disable Bluetooth, LAN, Wireless LAN, UMTS, and internal camera controllers.

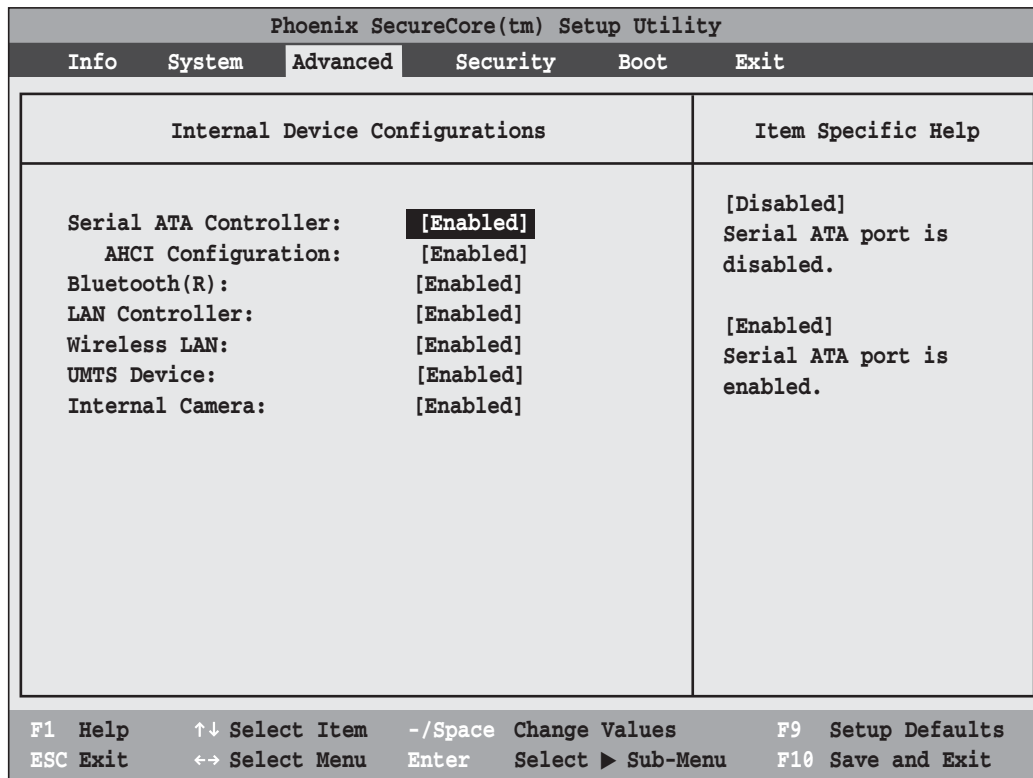


Figure 8. Internal Device Configuration Submenu

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).
Bluetooth:	<ul style="list-style-type: none"> Disabled Enabled 	[Enabled]	Enables or disables the Bluetooth device.
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.
UMTS Device:	<ul style="list-style-type: none"> Disabled Enabled 	[Enabled]	Enables or disables the Universal Mobile Telecommunications System (UMTS) controller.
Internal Camera:	<ul style="list-style-type: none"> Disabled Enabled 	[Enabled]	Enables or disables the Internal Camera.

CPU Features Submenu of the Advanced Menu

The CPU Features submenu provides options for configuring the Intel Core Multi-Processing and SpeedStep power management features of the CPU.

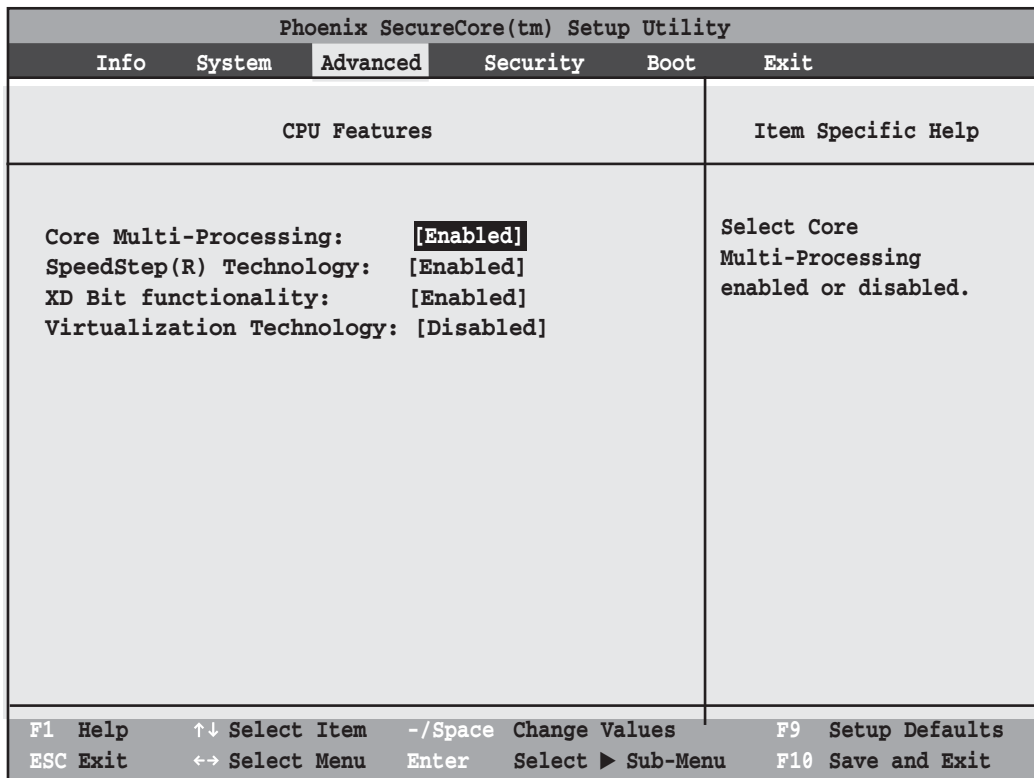


Figure 9. CPU Features Submenu

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

Menu Field	Options	Default	Description
Core Multi-Processing:	<ul style="list-style-type: none"> Enabled Disabled 	[Enabled]	Enables or disables the Intel Core Multi-Processing features.
SpeedStep(R) Technology:	<ul style="list-style-type: none"> Disabled Enabled 	[Enabled]	Enables or disables the SpeedStep(R) Technology features.
XD Bit functionality:	<ul style="list-style-type: none"> Enabled Disabled 	[Enabled]	Enables or disables the Execute Disable Bit feature.
Virtualization Technology:	<ul style="list-style-type: none"> Disabled Enabled 	[Disabled]	Enables or disables Virtualization Technology, an Intel technology which includes hardware enhancements to improve upon software-based virtualization technologies.

USB Features Submenu of the Advanced Menu

The USB Features submenu provides options for enabling or disabling the USB devices.

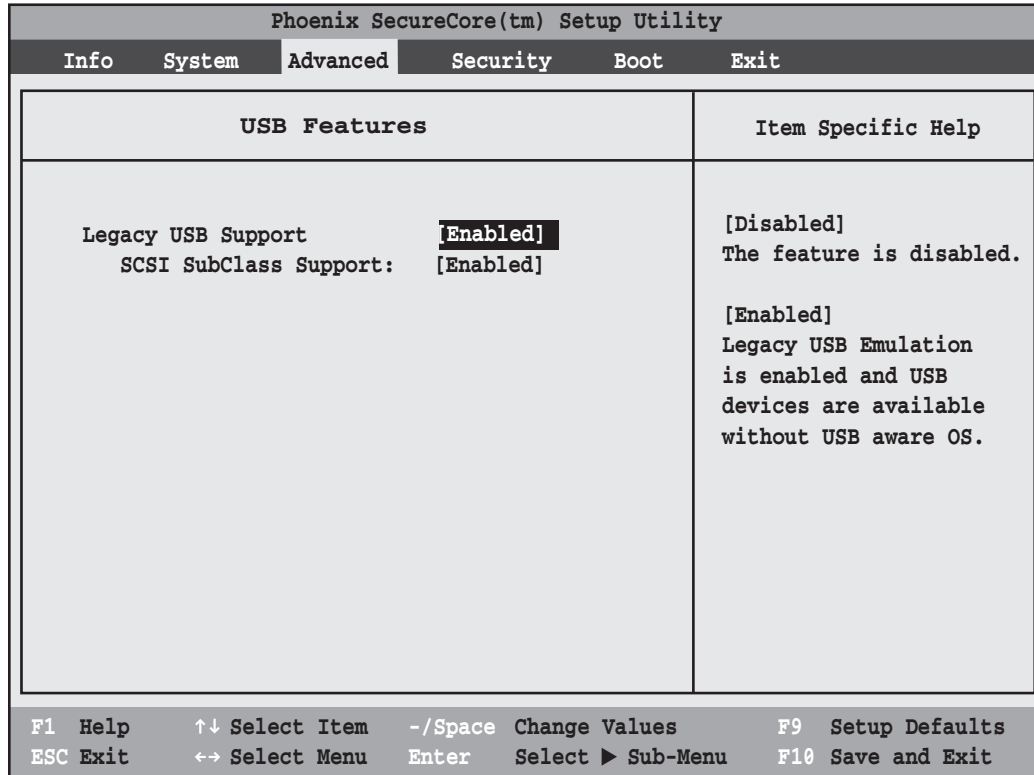


Figure 10. USB Features Submenu

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.

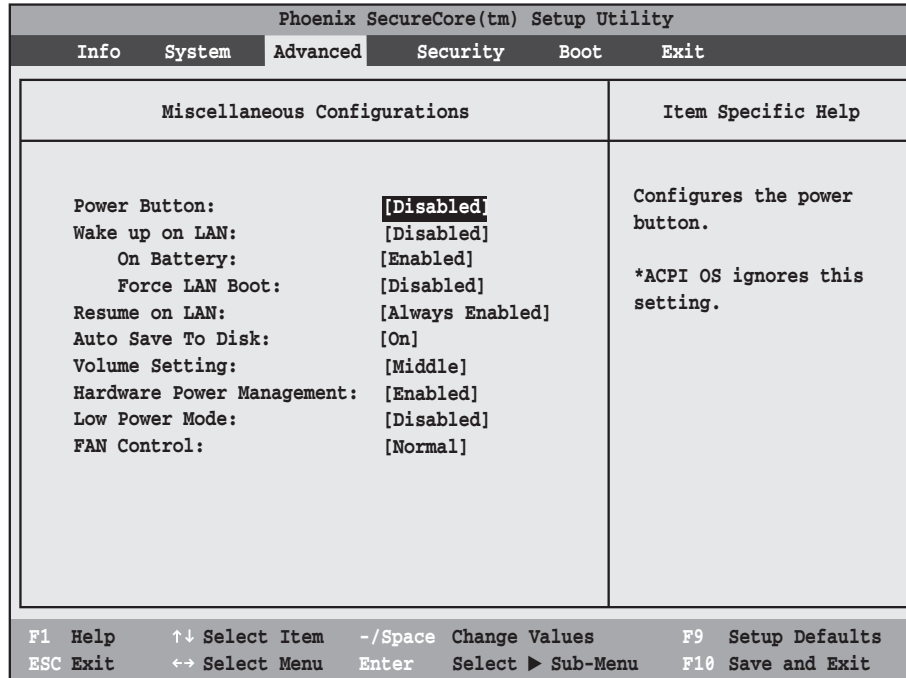


Figure 11. Miscellaneous Configurations Submenu

Table 11: Fields, Options and Defaults for the Miscellaneous Configurations Submenu of 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]	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.
On Battery:	<ul style="list-style-type: none"> Disabled Enabled 	[Enabled]	This feature is active only when "Wake up on LAN" is enabled. When disabled, the system will "Wake up on LAN" only when an AC Adapter is connected.
Force LAN Boot:	<ul style="list-style-type: none"> Disabled Enabled 	[Disabled]	This feature is active only when "Wake up on LAN" is enabled. When enabled, in the event of a system wake-up on LAN, the system will try to first boot from the LAN before attempting to boot from any other device, regardless of the BIOS boot priority settings or disabling of the Preboot Execution Environment.
Resume on LAN:	<ul style="list-style-type: none"> On AC mode only Always Enabled 	[Always Enabled]	When [On AC mode only] is selected, the system will "Wake up on LAN" from sleep (standby) or hibernate only when an AC Adapter is connected.
Auto Save To Disk:	<ul style="list-style-type: none"> Off On 	[On]	When turned on, when a suspended system enters a low battery state, it will save its state and then power off.
Volume Setting:	<ul style="list-style-type: none"> Off Minimum Middle Maximum 	[Middle]	Selects the initial volume setting for the system.

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

Menu Field	Options	Default	Description
Hardware Power Management:	<ul style="list-style-type: none">▪ Disabled▪ Enabled	[Enabled]	Allows you to enable or disable the Hardware Power Management technology.
Low Power Mode:	<ul style="list-style-type: none">▪ Disabled▪ Enabled	[Disabled]	Enables and disables low power mode (Energy Star models).
FAN Control:	<ul style="list-style-type: none">▪ Normal▪ Silent	[Normal]	Determines the operating noise level of the fan.

Event Logging Submenu of the Advanced Menu

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

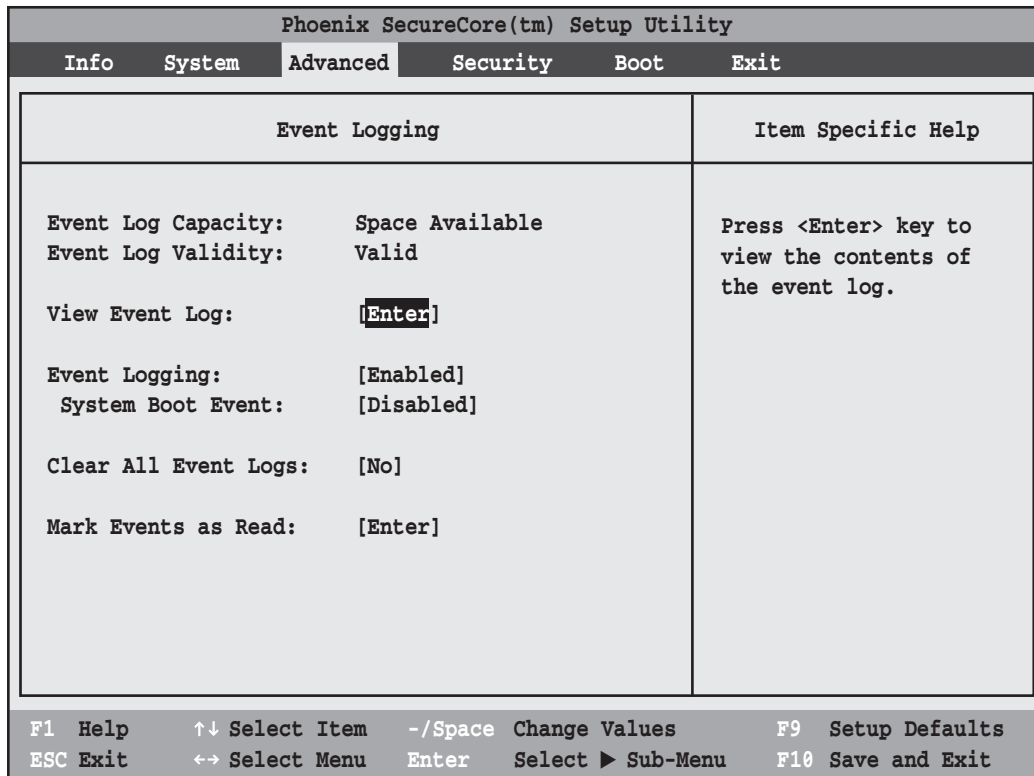


Figure 12. Event Logging Submenu

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:	▪ Enter	[Enter]	Allows you to view content of event log
Event Logging:	▪ Disabled ▪ Enabled	[Enabled]	Turns event logging on and off for all DMI events.
System Boot Event:	▪ Disabled ▪ Enabled	[Disabled]	Turns event logging on and off for DMI system boot events.
Clear All Event Logs:	▪ No ▪ Yes	[No]	When set to [Yes] all event logs will be cleared at next boot.
Mark Events as Read:	▪ Enter	[Enter]	Lets you 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 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.



Remember your passwords! If you set and forget your User and Master hard disk passwords, Fujitsu Computer Systems will not be able to reset it. You may lose data and have to replace your system board or hard disk drive.



- 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 Security Panel on Resume 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.

Phoenix SecureCore(tm) Setup Utility			
Info	System	Advanced	Security
Supervisor Password Is:		Clear	
User Password Is:		Clear	
Set Supervisor Password		[Enter]	
Set User Password		[Enter]	
Minimum User Password Length:		[0]	
Password on Boot:		[Disabled]	
On Automatic Wake up:		[Disabled]	
Boot from Removable Media:		[All]	
Flash Write:		[Enabled]	
▶ Hard Disk Security			
▶ Owner Information			
		Item Specific Help	
		Press <Enter> key to set Supervisor Password to enable any password features.	
		Then password entry is required to enter BIOS Setup.	
F1 Help	↑↓ Select Item	-/Space Change Values	F9 Setup Defaults
ESC Exit	↔ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

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.
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.

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.

Phoenix SecureCore(tm) Setup Utility			
Info	System	Advanced	Security
Hard Disk Security		Item Specific Help	
Drive0:	Clear		
Set Master Password	[Enter]		
Set User Password	[Enter]		
Drive1:	Not Available		
Set Master Password	[Enter]		
Set User Password	[Enter]		
Password Entry on Boot:	[Enabled]		
F1 Help ↑↓ Select Item -/Space Change Values F9 Setup Defaults ESC Exit ↔ Select Menu Enter Select ► Sub-Menu F10 Save and Exit			

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
Drive0:	—	Clear	Display-only. Default is Clear. When the Drive0 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.
Set Master Password	—	[Enter]	Sets, changes or cancels the Drive0 Master Password. The Drive0 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 Drive0 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.
Set User Password	—	[Enter]	Sets, changes or cancels the Drive0 User Password. The Drive0 User Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. When a Drive0 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.
Drive1:	—	Clear	Display-only. Default is Clear. When the Drive1 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. When only one drive is installed (Drive 0:), [Not available] appears here.

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

Menu Field	Options	Default	Description
Set Master Password	_____	[Enter]	Sets, changes or cancels the Drive1 Master Password. The Drive10 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 Drive0 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.
Set User Password	_____	[Enter]	Sets, changes or cancels the Drive1 User Password. The Drive1 User Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. When a Drive0 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.
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.

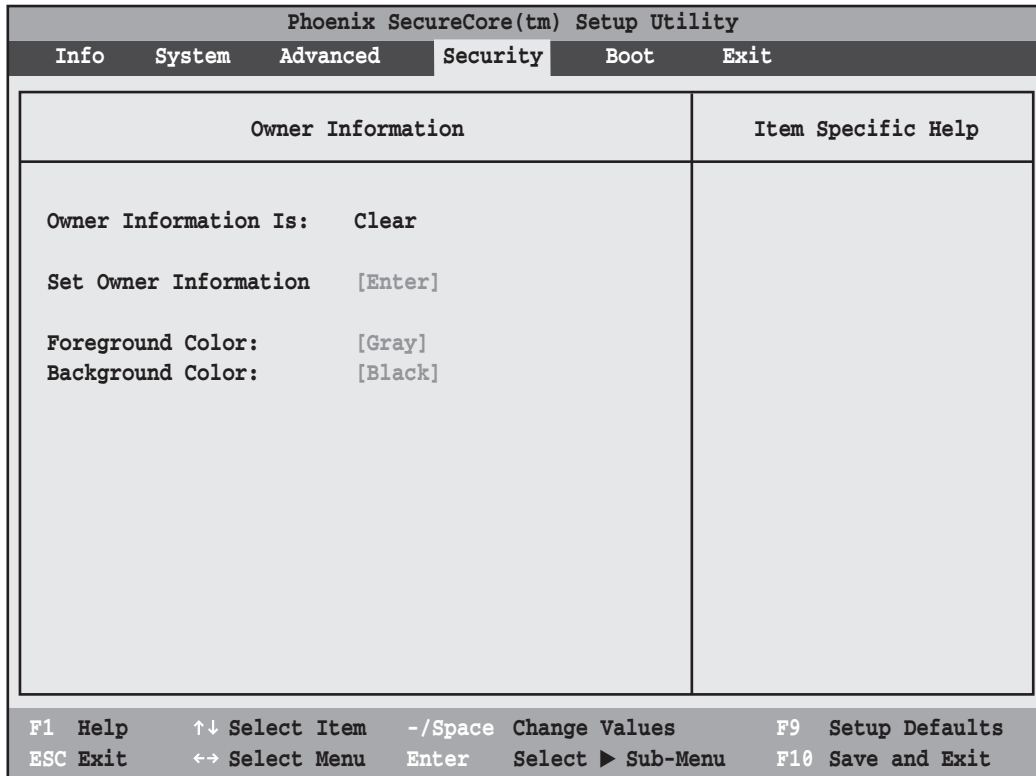


Figure 15. Owner Information Submenu

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:	<div> <div> ■ Black ■ Blue ■ Green ■ Cyan ■ Red ■ Magenta </div> <div> ■ Brown ■ White ■ Gray ■ Light Blue ■ Light Green </div> <div> ■ Light Cyan ■ Light Red ■ Light Magenta ■ Yellow ■ Bright White </div> </div>	[Gray]	Set foreground color.
Background Color:	<div> <div> ■ Black ■ Blue ■ Green ■ Cyan ■ Red ■ Magenta </div> <div> ■ Brown ■ White ■ Gray ■ Light Blue ■ Light Green </div> <div> ■ Light Cyan ■ Light Red ■ Light Magenta ■ Yellow ■ Bright White </div> </div>	[Black]	Set background color.

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.

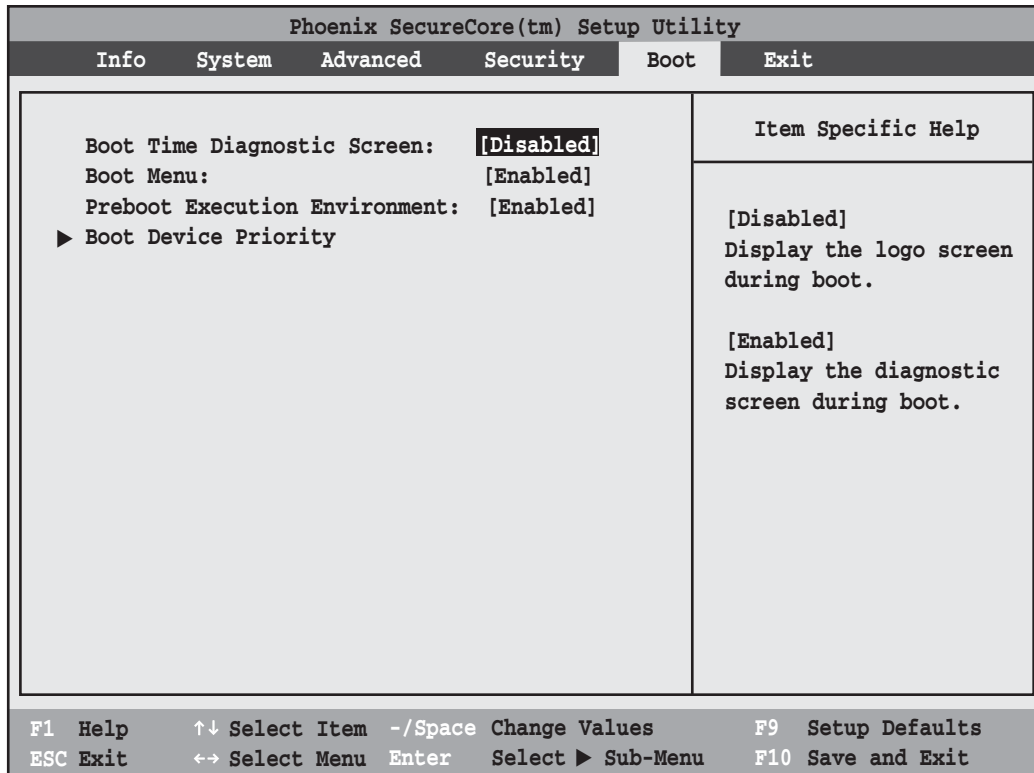


Figure 16. Boot Menu

Table 16: Fields, Options and Defaults for the Boot Menu

Menu Field	Options	Default	Description
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 	[Enabled]	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 or you may overwrite files by mistake.
- A bootable CD-ROM has either a floppy disk format or a hard drive format. When the CD-ROM is used, 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 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 hard drive. The boot sequence ignores the new drive designations, but your application software will use the new designations.

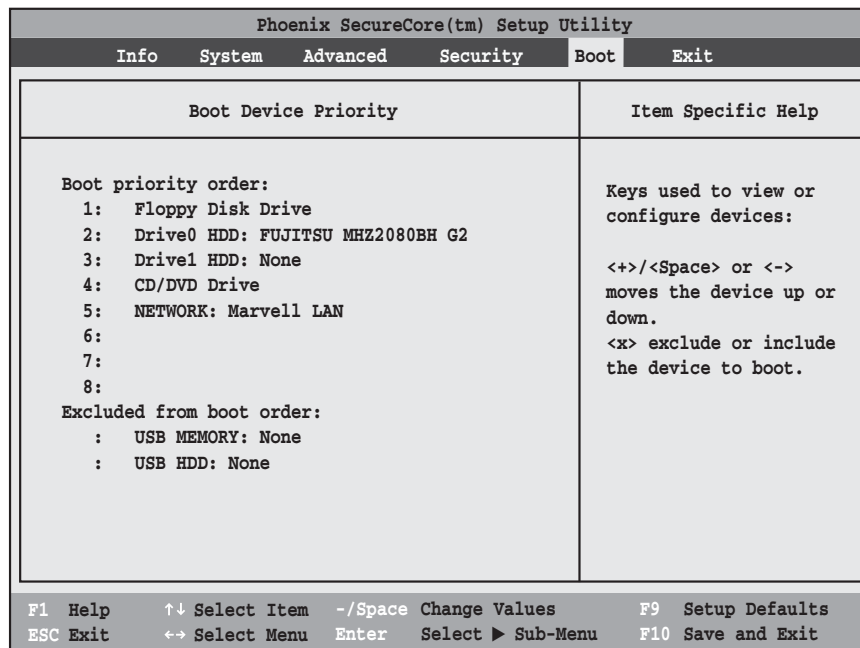


Figure 17. Boot Device Priority Submenu

Table 17: Fields, Options and Defaults for the Boot Device Priority Submenu of the Boot Menu

Menu Field	Description
Boot priority order: 1: Floppy Disk Drive 2: Drive0: 3: Drive1: 4: CD/DVD Drive 5: NETWORK: 6: 7: 8: Excluded from boot order: : USB MEMORY: : USB HDD:	<p>The boot selections determine the order in which the BIOS searches for the operating system during a startup sequence. 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. Tapping [x] removes from the list a device that is not installed. Tapping [x] on an item in the Excluded list adds the device to the Boot priority list. 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.

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.

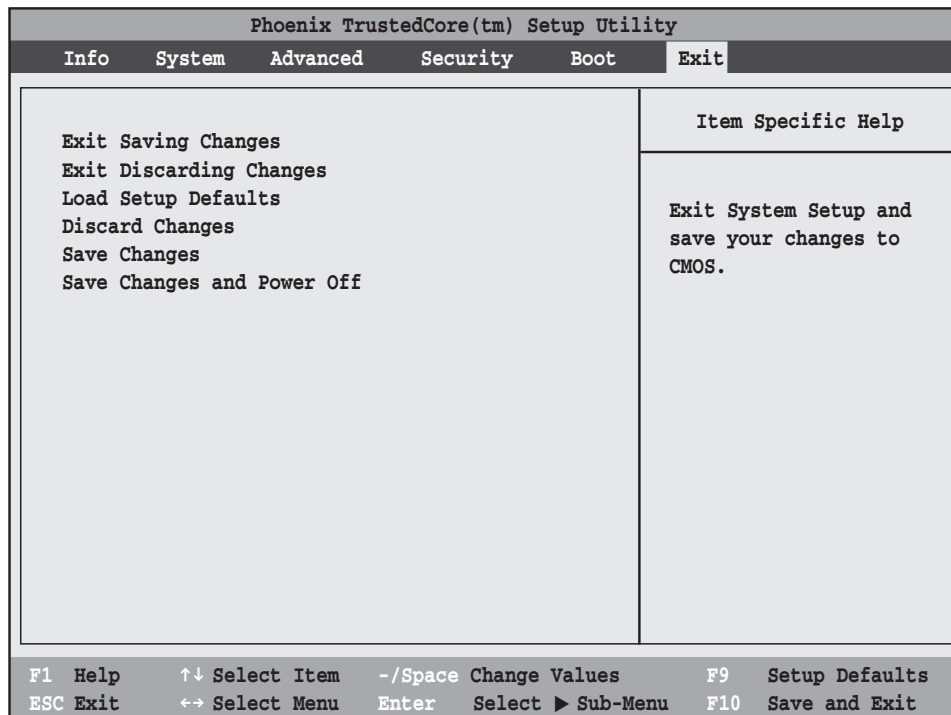


Figure 18. Exit Menu

Table 18: 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 <code>Save Configuration changes and exit now? [Yes][No]</code> 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. A confirmation message <code>Discard changes and exit now? [Yes][No]</code> is displayed.
Load Setup Defaults	Selecting Load Setup Defaults will load the factory preset default values for all menu fields, then display the message <code>Load default configuration now? [Yes] [No]</code> . 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 <code>Load previous configuration now? [Yes] [No]</code> 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 <code>Save configuration changes now? [Yes] [No]</code> 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 <code>Save configuration changes and power off now? [Yes] [No]</code> 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.