

Fujitsu LifeBook V Series BIOS Guide

LifeBook V Series Model: V1020

Document Date: 01/17/2008 Document Part Number: FPC58-1825-01

FUJITSU COMPUTER SYSTEMS CORPORATION

A 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: [←], [→]
- 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.
 - 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 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.

		1	Phoeni	x Tru	stedC	ore(tm)	Setup	Utility			
	Info	System	Adva	nced		Security	?	Boot	Ex	it	
	Produ	ict Name:		LifeE	Book N	71020					
	and	1 Mumbers		~~~~	77777						
	Seria	al Number:									
	BIOS	Version:		1.04	(XX/)	XX/2008)					
	Duca			T=+-1	())		2 D	CDU	<i>m</i>E 4 E 0	e 1 ccan	_
	Proce	essor Type:		Intel	L(R) (core(TM)	2 Duo	CPU	15450	@ 1.66GH	z
	L2 Ca	ache:		2048	KB						
	meter.	Mamaana		2040	100						
	Total	L Memory:		2048	MB						
	Mer	nory Slot 1:		1024	MB DI	DR2 SDRA	М				
	Mer	nory Slot 2:		1024	MB DI	DR2 SDRA	М				
	Onboa	ard MAC Address	5:	00-X3	<-xx-3	x-xx-xx					
	UUID	:		XXXXX	XXXX-X	XXX-XXX	x-xxx	K-XXXXXX	XXXXXX		
F 1	Helr		- Ttom	_ /	Space	Change	Value	e	F 9 Se	tun Defai	11+9
- r -	C Ewit		Monu		tor	Cologe	► Cub	Monu	E10 Co	we and E	
F1 ES	Help C Exit) ↑↓ Select : ←→ Select	: Item : Menu	- / En	Space ter	Change Select	Value Sub	s -Menu	F9 Se F10 Sa	tup Defau	lts

Figure 1. Info Menu

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

Menu Field	Default	Menu Field	Default
Note that all of t information.) No	he fields on this screen are display only and ar te that the parameters shown may be differer	e for reference only. ("X"'s ar it for your system , depending	e used for system-specific upon system configuration.
Product Name:	LifeBook V1020	Total Memory:	2048 MB
Serial Number::	XXXXXXXX	Memory Slot 1:	1024 MB DDR2 SDRAM
BIOS Version:	1.0X (XX/XX/2008)	Memory Slot 2:	1024 MB DDR2 SDRAM
Processor Type:	Intel(R) Core(TM)2 Duo CPU T5450 @ 1.66GHz	Onboard MAC Address:	XX-XX-XX-XX-XX
L2 Cache:	2048 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 TrustedCore(tm) Setup Utility							
Info System	Advanced Security	Boot Exit						
Guster Time	[22 , 52, 61]	Item Specific Help						
System Time: System Date:	[01/17/2008]	Adjust calendar clock.						
▶ Drive0 ▶ Drive1	[TOSHIBA MK1637GSX] [HL-DT-ST DVDRAM_GSA_T20N]	<tab>, <shift-tab>, or <enter> selects field.</enter></shift-tab></tab>						
Language:	[English (US)]							
Fl Help AL Sele	ant Item -/Ghange Vi	alues E4 Setup Defaults						
ESC Exit ↔ Sele	ect 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.

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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	The product	Display the type of device on this ATA/IDE interface. Pressing the
	Serial ATA drive	number of the hard	Enter key selects the Serial ATA DriveO submenu allowing additional
	submenu	drive.	device configuration options for this interface.
Drive1:	Selects the Drive1	The product	Display the type of device on this ATA/IDE interface, if there is one.
	Serial ATA drive	number of the	Pressing the Enter key selects the Serial ATA Drive1 submenu allow-
	submenu	optical drive.	ing additional device configuration options for this interface.
Language:	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.

	Phoenix Trusted	Core(tm) Setup	Utility
Info System	Advanced Sec	urity Boot	Exit
Drive0	[TOSHIBA MK1637GSX]		Item Specific Help
Type: Total Sectors: Maximum Capacity:	[Auto] LBA Fo: 312581808 160GB SATA	rmat	Select Serial ATA/IDE drive installed here. [Auto] The BIOS auto-types the
			drive on boot time. [None] The drive is disabled.
F1 Help $\uparrow \downarrow$ Sel ESC Exit \leftrightarrow Sel	lect Item -/Space lect Menu Enter	e Change Values Select 🕨 Sub-	s F9 Setup Defaults Menu F10 Save and Exit

Figure 3. Drive0 Master Submenu

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

Menu Field	Options	Default	Description		
Туре:	AutoNone	[Auto]	Selects the hard drive 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		

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Drive1 Submenu of the System Menu

The Drive1 submenu allows you to configure secondary ATA devices.

	Phoenix TrustedCore	(tm) Setup Uti	lity
Info System	m Advanced Secur:	ity Boot	Exit
Drivel	[HL-DT-ST DVDRAM_GSA_T2	20N]	Item Specific Help
Type:	[Auto]		Select Serial ATA/IDE drive installed here.
Transfer Mode: Ultra DMA Mode:	[Standard] [Disabled]		[Auto] The BIOS auto-types the drive on boot time.
			[None] The drive is disabled.
F1 Help ↑↓ ESC Exit ↔	Select Item -/Space Select Menu Enter	Change Values Select ► Sub-	F9 Setup Defaults Menu F10 Save and Exit

Figure 4. Drive1 Submenu

Table 4: Fields, Op	tions and Defaults	for the Drive1	Submenu of the S	ystem Menu
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Menu Field	Options	Default	Description
Туре:	AutoNone	[Auto]	NOTE: The Type field does not appear as a drop-down menu. Tap the spacebar to toggle the selections. 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.
Transfer Mode:	 Standard Fast PIO 1 Fast PIO 2 Fast PIO 3 Fast PIO 4 Multiword DMA 1 Multiword DMA 2 	[Standard]	This option cannot be changed (automatically identified by the BIOS). Selects the method for moving data to/from the drive. Autotype the drive to select the optimum transfer mode. 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:	 Disabled Mode 0 Mode 1 Mode 2 Mode 3 Mode 4 Mode 5 	[Disabled]	This option cannot be changed (automatically identified by the BIOS). Selects the method for moving data to/from the drive. Autotype the drive to select the optimum transfer mode.

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.

	Phoenix Trus	stedCore(tm) Se	tup Util:	ity
Info Sys	stem Advanced	l Security	Boot	Exit
▶ Keyboard/Mou	1se Features			Item Specific Help
 Video Featur Internal Dev CPU Features USB Features Miscellaneou Event Loggin 	res vice Configurati s s Configuration	ons		Configures keyboard/ mouse features.
F1 Help ↑J ESC Exit ↔	Select Item Select Menu	-/Space Change Enter Select	Values Sub-Me	F9 Setup Defaults enu F10 Save and Exit

Figure 5. Advanced Menu

Table 5: Fields,	Options	and	Defaults for	or the	Advanced	Menu
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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, IDE, Bluetooth, Modem, LAN, and WLAN Controllers.
CPU Features	When selected, opens the CPU Features submenu to allow you to change the CPU speed for battery life optimization.

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.

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Keyboard/Mouse Features Submenu of the Advanced Menu

The Keyboard/Mouse Features submenu is for turning NumLock on or off..

			Phoenix	TrustedCon	re(tm) S	Setup U	tility
	Info	System	Advanced	Securi	lty	Boot	Exit
		Key	board/Mouse	e Features			Item Specific Help
	Numloc}	C:		Off]			<pre>[0n] or [0ff] Numlock is On or Off. [0n/Padlock Off] Numlock is On, but use with [Fn] for 10-key input. * Windows XP or later OS preserves Numlock state when the user logs off.</pre>
F	1 Help SC Exit	î↓ Se ←→ Se	lect Item	-/Space Enter	Change Select	Values	F9 Setup Defaults Menu F10 Save and Exit

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:	 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.

		Phoenix	TrustedCo	ore(tm)	Setup Ut	ility	
Info	System	Advance	l Sec	urity	Boot	Exit	
		Video Feat	ures			Item S <u>r</u>	pecific Help
Display:		[<mark>A</mark> u	to)			Select di * This se effective operating starts up	splay terminal. tting is not after system
F1 Help ESC Exit	↑↓ Sel ←→ Sel	ect Item ect Menu	-/Space Enter	Change Select	Values Sub-Me	F9 9 enu F10 9	Setup Defaults Save and Exit

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:	 Internal Flat Panel External Auto 	[Auto]	Selects where the video signal will be routed. Note that this setting is overridden after Windows starts up.

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Internal Device Configurations Submenu of the Advanced Menu

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

Phoenix	TrustedCore(tm)	Setup Uti	lity
Info System Advance	ed Security	Boot	Exit
Internal Device	Configurations		Item Specific Help
Serial ATA Controller: AHCI Configuration: IDE Controller: Bluetooth(R): LAN Controller: Wireless LAN:	[Enabled] [Enabled] [Enabled] [Enabled] [Enabled]		[Disabled] Serial ATA port is disabled. [Enabled] Serial ATA port is enabled.
F1 Help ↑↓ Select Item ESC Exit ↔ Select Menu	-/Space Chang Enter Selec	ge Values st ▶ Sub-Me	F9 Setup Defaults enu F10 Save and Exit

Figure 8. Internal Device Configuration Submenu

Table 8: Fields, O	Options and Det	faults for the Intern	al Device Configuration	Submenu of the Advanced Menu

Menu Field	Options	Default	Description
Serial ATA Controller:	DisabledEnabled	[Enabled]	Enables or disables the Serial ATA port.
AHCI Configuration:	DisabledEnabled	[Enabled]	Enables or disables the selected Advanced Host Controller Interface (AHCI).
IDE Controller:	DisabledEnabled	[Enabled]	Enables or disables selected IDE devices.
Bluetooth(R):	DisabledEnabled	[Enabled]	Enables or disables the Bluetooth controller.
LAN Controller:	DisabledEnabled	[Enabled]	Enables or disables the LAN controller.
Wireless LAN:	DisabledEnabled	[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 Core Multi-Processing and SpeedStep power management features of the CPU.

Phoenix TrustedCore(tm) Setup Utility					
Info System Advance	ed Security Boot	Exit			
CPU Featu	ires	Item Specific Help			
Core Multi-Processing: SpeedStep(R) Technology: On Battery: On AC: XD Bit functionality:	[Enabled] [Battery Optimized] [Maximum Performance] [Enabled]	Select Core Multi-Processing enabled or disabled.			
F1 Help ↑↓ Select Item ESC Exit ↔ Select Menu	-/Space Change Values Enter Select ▶ Sub-Me	F9 Setup Defaults nu F10 Save and Exit			

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-Pro- cessing:	Core Multi-Pro- cessing: • Enabled [Enabled]		Enables or disables the Intel Core Multi-Processing features.
SpeedStep(R) Technology: Disabled Enabled		[Enabled]	Enables or disables the SpeedStep(R) Technology features. When disabled, On Battery and On AC are disabled.
On Battery:	 Maximum Performance Battery Optimized Automatic 	[Battery Optimized]	When Maximum Performance is selected, CPU speed is maxi- mized. When Battery Optimized is selected, CPU power require- ments are optimized for battery operation. When Automatic is selected, the CPU speed is determined by the power source used.
On AC:	 Maximum Performance Battery Optimized Automatic 	[Maximum Performance]	When Maximum Performance is selected, CPU speed is maxi- mized. When Battery Optimized is selected, CPU power require- ments are optimized for battery operation. When Automatic is selected, the CPU speed is determined by the power source used.
XD Bit functionality:	EnabledDisabled	[Enabled]	Enables or disables the Execute Disable Bit feature.

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USB Features Submenu of the Advanced Menu

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

			Phoenix T	rustedCore	e(tm) Se	etup Util	lity
	Info	System	Advanced	l Secu	rity	Boot	Exit
		υ	SB Featu	Item Specific Help			
	Legac SC	y USB Sup SI SubCla	pport ss Support	[Bnab] : [Enab]	Led] Led]		[Disabled] The feature is disabled. [Enabled] Legacy USB Emulation is enabled and USB devices are available without USB aware OS.
F E	1 Help SC Exit	↑↓ Se ←→ Se	lect Item lect Menu	-/Space Enter	Change Select	Values Sub-M	F9 Setup Defaults Nenu F10 Save and Exit

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:	DisabledEnabled	[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:	DisabledEnabled	[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.

Phoenix TrustedCore(tm) Setup Utility								
Info	System	Advanced	Sec	urity	Boot	Exit		
	Miscellan	eous Confi	iguratio	ons		Item Specific Help		
Power E Wake up Force Volume Hardwar	utton: on LAN: LAN Boot: Setting: e Power Ma		Configures the power button. *ACPI OS ignores this setting.					
F1 Help ESC Exit	↑↓ Selec ↔ Selec	t Item t Menu	/Space Inter	Change Select	Values Sub-Me	F9 Setup Defaults enu F10 Save and Exit		

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:	ton: Disabled [Disabled Power Off		Selecting Disabled disables the power button. Selecting Power Off allows you to turn off system power with the power button.
Wake up on LAN:	DisabledEnabled	[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.
Force LAN Boot:	DisabledEnabled	[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.
Volume Setting:	 Off Minimum Middle Maximum 	[Middle]	Selects the initial volume setting for the system.
Hardware Power Management	DisabledEnabled	[Enabled]	Allows you to enable or disable the Hardware Power Management feature.

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Event Logging Submenu of the Advanced Menu

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

Phoer	nix TrustedCore(tm) Setup U	Vtility
Info System <mark>Adva</mark>	nced Security Boot	Exit
Event	Logging	Item Specific Help
Event Log Capacity: Event Log Validity: View Event Log:	Space Available Valid [Enter]	Press <enter> key to view the contents of the event log.</enter>
Event Logging: System Boot Event:	[Enabled] [Disabled]	
Clear All Event Logs:	[No]	
Mark Events as Read:	[Enter]	
F1 Help ↑↓ Select It ESC Exit ↔ Select Me	em -/Space Change Value enu Enter Select ► Sub	s F9 Setup Defaults -Menu F10 Save and Exit

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:	DisabledEnabled	[Enabled]	Turns event logging on and off for all DMI events.	
System Boot Event:	DisabledEnabled	[Disabled]	Turns event logging on and off for DMI system boot events.	
Clear All Event Logs:	NoYes	[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 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 TrustedCore(tm) Setup Utility								
Info System Ad	vanced Sec	urity Boot	Exit					
			Item Specific Help					
Supervisor Password	Is: Cle	ar						
User Password Is:	Cle	ar						
			Press <enter> key to</enter>					
Set Supervisor Passwo	ord [En	iteri	set Supervisor Password					
Set User Password	[En	iter]	to enable any password					
Minimum User Password	d Length: [0]		features.					
Password on Boot:	[Di	.sabled]						
On Automatic Wake	up: [Di	.sabled]	Then password entry is					
Boot from Removable I	Media: [Al	.1]	required to enter BIOS					
Flash Write:	LEn	labled]	Setup.					
Hard Disk Security								
▶ Owner Information								
F1 Help ↑↓ Select I	tem -/Space	Change Values	F9 Setup Defaults					
ESC Exit ↔ Select M	lenu Enter	Select > Sub-Mer	u F10 Save and Exit					

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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 Pass- word 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:	 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 Supervi- sor) 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 pass- word is required.
On Automatic Wake up:	DisabledEnabled	[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:	 All Supervisor only 	[All]	Supervisor only allows access to boot the computer to removable media after the Supervisor Password is entered.
Flash Write:	DisabledEnabled	[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

Phoen	x TrustedC	ore(tm)	Setup Ut	ility	
Info System Advan	ced Sec	urity	Boot	Exit	
Hard Disk	Security			Item Specif	ic Help
Drive0:	Clear				
Set Master Password	[Enter]				
Set User Password	[Enter]				
1 Help ↑↓ Select Item SC Exit ↔ Select Menu	-/Space Enter	Change Select	Values	F9 Setup enu F10 Save	Defaul and Exi

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

Figure 14. Hard Disk Security Submenu

Menu Field	Options	Default	Description
Drive0:		Clear	Display-only. Default is Clear. When the DriveO 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 Master Password. The 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 Master Pass- word 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 User Password. The User Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case-sensitive. When aUser 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:	DisabledEnabled	[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 pass- word entry.)

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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.

Pho	enix TrustedCore(tm)	Setup Utility	
Info System Adv	anced Security	Boot Exit	
Owner	Information	Item	Specific Help
Owner Information Is:	Clear		
Set Owner Information	[Enter]		
Foreground Color: Background Color:	[Gray] [Black]		
F1 Help ↑↓ Select I ESC Exit ↔ Select N	Item -/Space Change Menu Enter Select	Values F9 Sub-Menu F1	Setup Defaults Save and Exit

Figure 15. Owner Information Submenu

Table 15: Fields	, Options and	Defaults for the	Owner Information	Submenu of t	he Security N	۱enu
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Menu Field	Options			Default	Description
Owner Information ls:	—			Clear	Display only.
Set Owner Information:				[Enter]	Field to write owner informa- tion, (i.e., name).
Foreground Color:	 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:	 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.

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.)

System

Boot Time Diagnostic Screen:

Advanced

Info

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.

Item Specific Help

F10 Save and Exit

Boot Menu: [Enabled] Preboot Execution Environment: [Enabled] ▶ Boot Device Priority [Disabled] Display the logo screen during boot. [Enabled] Display the diagnostic screen during boot. F1 Help ↑↓ Select Item -/Space Change Values F9 Setup Defaults

Phoenix TrustedCore(tm) Setup Utility

Security

[Disabled]

Boot

Exit

Figure 16. Boot Menu

Select > Sub-Menu

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

Exit

Select Menu Enter

Menu Field	Options	Default	Description
Boot-time Diagnostic Screen:	DisabledEnabled	[Disabled]	Turns on and off the diagnostic screen instead of Fujitsu logo screen during Power On Self Test.
Boot Menu:	DisabledEnabled	[Enabled]	When Disabled, the Boot Menu is disabled and the [F12] key is ignored. When Enabled, the Boot Menu is enabled.
Preboot Execution Environment:	DisabledEnabled	[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 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.

Phoenix TrustedCore(tm) Setup U	tility
Info System Advanced Security H	Boot Exit
Boot Device Priority	Item Specific Help
Boot priority order: 1: Floppy Disk Drive 2: Drive0 HDD: FUJITSU MHW2120BH 3: CD/DVD Drive 4: NETWORK: Marvell LAN 5: 6: 7: 8: Excluded from boot order: : USB MEMORY: None : USB HDD: None	Keys used to view or configure devices: <+>/ <space> or <-> moves the device up or down. <x> exclude or include the device to boot.</x></space>
F1 Help ↑↓ Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ▶ Sub-Me:	F9 Setup Defaults nu F10 Save and Exit

Figure 17. Boot Device Priority Submenu

Table 17: Fields, Options and Defaults for the Boot Device Priority Submenu of the Boot Me	s for the Boot Device Priority Submenu of the Boot Menu
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Menu Field	Description
Boot priority order: 1: Floppy Disk Drive 2: Drive0: 3: CD/DVD Drive 4: NETWORK: 5: 6:	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.
7: Excluded from boot order: : USB MEMORY: : USB HDD:	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.

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.

	Phoenix	TrustedCore	e(tm) Se	tup Util	ity
Info S	System Advanc	ed Secu	ırity	Boot	Exit
Exit Savi Exit Disc Load Setu Discard (Save Char Save Char	ing Changes carding Changes up Defaults Thanges nges nges and Power O	ff	-		Item Specific Help Exit System Setup and save your changes to CMOS.
F1 Help ESC Exit	↑↓ Select Item ↔ Select Menu	-/Space Enter	Change Select	Values Sub-Me	F9 Setup Defaults enu F10 Save and Exit

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 Save Configuration changes and exit now? [Yes][No] is displayed.
Exit Discarding Changes	Selecting Exit Discarding Changes and Exit will exit the setup utility with out writing to the BIOS memory. When 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 <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 mes- sage Load previous configuration now? [Yes] [No] 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.

	Table '	18: Fie	lds, Op	tions a	เnd De	faults	for	the	Exit I	Menu
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Menu Field	Description
Save Changes	Selecting Save Changes will cause the new settings in all menus to be written to the BIOS memory. The message Save configuration changes now? [Yes] [No] 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 Save configuration changes and power off now? [Yes] [No] 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.