

# Insyde Software BIOS Setup Utility

## System Parameters and Standard Settings

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## INTRODUCING BIOS SETUP

Your computer comes with a hardware configuration program called BIOS Setup that allows you to view and set system parameters.

The BIOS (Basic Input/Output System) is a layer of software, called 'firmware', that translates instructions from software (such as the operating system) into instructions that the computer hardware can understand. The BIOS settings also identify installed devices and establish special features.

### USE BIOS SETUP TO:

- set the current time and date,
- customise your hardware settings according to your needs,
- secure your computer with a password.

### ENTERING BIOS SETUP

You can access the BIOS program just after you turn on your computer. Just press the **F2** key when the following prompt appears:

*Press <F2> to run CMOS Setup or F12 to boot on network.*

When you press **F2** to enter BIOS Setup, the system interrupts the Power-On Self-Test (POST). If the system detects an error during POST, it prompts you with a double beep and a message: *Press <F1> to resume*. If you press **F1**, the system enters the BIOS Setup program. If you want to fix the error, carefully read the error message that appears above the prompt (taking notes if you want) and press **F2**.

**Note:** *If you receive this message repeatedly and the date displayed by your computer is inaccurate, then your CMOS battery may have lost charge. Contact your Technical Support Centre for advice.*

### THE SYSTEM INFORMATION SCREEN AND BIOS SETUP MENUS

The System Information screen is displayed when you first start the BIOS Setup Utility. It consists of three basic areas:

- Parameter Menus - Each menu at the top of the screen controls a group of related parameters.

- Main System information - The middle of the screen. This area displays the main system components and devices that have been detected. The values shown here are for information only and cannot be changed from BIOS Setup.
- Help - The bottom of the screen. This area shows help text for each parameter.

Options that are shown in dark grey are not available for the current selection.

### USING KEYS

The following table lists the BIOS Setup keys and their functions:

Key	Function
Letters highlighted in red or white.	Press the highlighted key to jump straight to the associated option. Press <b>Alt</b> to highlight the active keys in a window.
← → ↑ ↓	Use the cursor keys to move between the available options.
<b>Space</b> or <b>Enter</b>	Select an option or accept a change.
<b>Esc</b>	Exits the current window or menu. From the System Information screen, pressing <b>Escape</b> will immediately quit the BIOS Setup program.

Table 1: BIOS Setup Keys and Associated Functions

### SETUP MENUS

The Setup Utility features five menus which are listed on the menu bar at the top of the screen.

**Main** - use this menu to change the system time and date and to control system ports and components.

**Advanced** - use this menu to control system ports and components.

**Security** - use this menu to establish system passwords and protect the boot sector of the hard disk drive against infection by some virus types.

**Boot** - use this menu to set the boot sequence.

**Exit** - use this menu to exit the Setup utility with various save or discard options.

These menus are described in detail in the following pages.

**Note:** *BIOS menu entries and settings may have changed since this document was created.*

## SYSTEM INFORMATION SCREEN

The *System Information* Screen displays the main system components and devices that have been detected.

**Note:** *the values shown here are for information only and cannot be changed from BIOS Setup.*

The Information is divided into three areas: Devices, System and Memory.

### Devices

Parameter	Options	Description
Floppy Drive A	Example: None	Shows if a floppy disk drive has been attached to or installed in the system.
IDE Primary	Example: FUJITSU MHT2040AT	Displays the hard disk drive detected during boot.
IDE Secondary	Example: DW-224E	Displays the optical device detected during boot.

Table 2: *Devices*

### System

Parameter	Options	Description
CPU	Example: Intel Pentium 4	Displays the CPU type.
MAX speed	Example: 2660 MHz	Displays the CPU claimed speed.
CPU Speed	Example: 2666 MHz	Displays the CPU actual speed.
SYSTEM BIOS	Example: 0.90J	Displays the BIOS revision number.
EC BIOS	Example:: 0.23	Displays the embedded controller BIOS revision number (for keyboard, fans, etc).

Table 3: *System*

### Memory

Parameter	Options	Description
Base	Example: 640 KB	Displays the amount of base memory detected during boot.
Extended	Example: 228352 KB	Displays the amount of extended memory detected during boot.
Share Memory	Example: 32768 KB	Displays the amount of shared memory detected during boot.
Total	Example: 262144 KB	Displays total memory detected during boot.
Cache (Ext)	Example: 512 KB	Displays the amount of external cache memory detected during boot.

Table 4: *Memory*

## MAIN MENU

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Use the Main menu to change the System time and date.

Parameter	Options	Description
Date and Time	Year Month Day Hour Minute Second	Select this option to open the <i>Date and Time</i> window. To set the time, select the number to be changed and either increase or decrease the number with the up and down arrows or simply type the new number required.
Hard Disk Type	Standard Fast PIO Multiword DMA Ultra DMA-33 Ultra DMA-66/100	Select this option to open the <i>Hard Disk Type</i> window. Allows you to set the primary and/or secondary hard disk type.
Internal Numlock	<i>[enabled]</i> <i>[disabled]</i>	Controls how the internal numpad behaves if an external numpad is plugged into the computer.
USB Emulation	<i>[enabled]</i> <i>[disabled]</i>	Enables or disables the USB controller.

Table 5: Main Menu

## ADVANCED MENU

Use the Advanced menu to control system ports and components.  
 Factory settings are shown in **red**.

Parameter	Options	Description
Geyserville Support	<b>[enabled]</b> [disabled]	Select this option to open the <i>Geyserville Support</i> window. Enables or disables Intel CPU Power Management support.
Shared Video Memory	8M 16M <b>32M</b>	Select this option to open the <i>Shared Video Memory</i> window. Allows you to set the shared memory size.
Enable MC97 Controller	<b>[enabled]</b> [disabled]	Enables or disables the modem controller.
Enable AC97 Controller	<b>[enabled]</b> [disabled]	Enables or disables the audio controller.
Enable EtherNet Controller	<b>[enabled]</b> [disabled]	Enables or disables the LAN controller.

Table 6: Advanced Menu

## SECURITY MENU

Use the Security Menu to establish system passwords.  
Factory settings are shown in **red**.

### PASSWORD PROTECTION

Your computer supports a password for system security.  
Once you set and enabled a password, you must type it before you can start using the computer, including accessing the BIOS, or returning from Hibernation (Save To File) mode.

Parameter	Options	Description
Set Admin password	Select this option to to open the <i>Set Admin Password</i> window.	See below for more information.
Set User password	Select this option to to open the <i>Set User Password</i> window.	See below for more information.
Hard Disk Boot Sector	<i>[enabled]</i> <i>[disabled]</i>	When enabled, this option protects the boot sector of the hard disk drive against infection by some virus types.

Table 7: Security Menu

### *Set Admin Password*

Parameter	Options	Description
Enter old Admin Password	[Field for the password]	Only available if a password is currently defined. You will need to enter the current password if you wish to change any settings in the <i>Set Admin Password</i> window.
Enter new Admin Password	[Field for the password]	Enter a new password to establish password protection when turning on the computer If a password is entered here it must be verified by typing it in the <i>Verify new Admin Password</i> field.
Verify new Admin Password	[Field for the password]	Verify a new password to avoid typing errors denying you access to the computer.
Verify password when...	Boot System Enter SCU	If the <i>Boot System</i> option is enabled, the password will be requested when switching on the computer or resuming from Hibernation mode, and when entering BIOS Setup. If the <i>Enter SCU</i> option is enabled, the password will be requested when entering BIOS Setup only. If both <i>Boot System</i> and <i>Enter SCU</i> options are enabled, the <i>Set User Password</i> will be activated.

Table 8: *Set Admin Password*

*Set User Password*

Parameter	Options	Description
Enter old User Password	[Field for the password]	Only available if a password is currently defined. You will need to enter the current password if you wish to change any settings in the <i>Set User Password</i> window.
Enter new User Password	[Field for the password]	Enter a new password to establish password protection when turning on the computer. If a password is entered here it must be verified by typing it in the <i>Verify new User Password</i> field.
Verify new User Password	[Field for the password]	Verify a new password to avoid typing errors denying you access to the computer.
Verify password when...	Boot System Enter SCU	If the <i>Boot System</i> option is enabled, the password will be requested when switching on the computer or resuming from Hibernation mode, and when entering BIOS Setup. If the <i>Enter SCU</i> option is enabled, the password will be requested when entering BIOS Setup only.

Table 9: *Set User Password***ESTABLISHING PASSWORDS**

*Note: for more information on security features (hardware and operating system passwords), please refer to the 'Using Your Versa' section of the Online Documentation. You will find information on how to setup Windows® and network passwords, as well as passwords to resume from Standby mode or from the screensaver.*

**BIOS SETUP AND BOOT PASSWORDS**

To establish password protection for entering the BIOS Setup utility or accessing the computer at start up, you must set a password.

- To enter a password simply select *Set Admin password*, type the password of your choice, press **Enter**, re-enter the password to confirm, press **Enter** again, enable the *Boot System* option, enable the *Enter SCU* option if you want to set a *User password* and finally select OK and press **Enter** to close the *Set Admin Password* window.
- To initiate password protection while you step away from your system, simply put your system in Hibernation (Save To File) mode.

## BOOT MENU

Use this menu to modify the boot options, and to specify the order of the bootable devices.

Factory settings are shown in **red**.

## BOOT ORDER

The entries in this window represent devices that can be used to start your computer. When your computer starts it will search each device, following the order defined in the list, for any 'boot' (start-up) instructions available. If a disk is found that contains such information, it will be used to start your computer.

This can be useful if the disk contains a 'rescue' program, that will solve a serious problem with your computer (your Recovery Disk or Recovery CD does this). Consequently, you should check for removable devices before continuing to the main hard disk drive. Should your computer's hard drive develop a major fault, you will be able to use a bootable CD or floppy disk to start your computer instead..

***Note:** the Floppy Disk Drive entries refer to any USB floppy disk drive that may have been attached to your computer.*

Parameter	Options	Description
Boot Sequence	Click here to open the <i>Boot Sequence</i> window.	See below for more information.

Table 10: Boot Menu

### *Boot Sequence*

Parameter	Options	Description
1st Boot Device	Hard Disk Drive <b>CD-ROM Drive</b> Floppy Disk Drive LAN Boot	Select the first device that will be searched for boot instructions.
2nd Boot Device	Hard Disk Drive CD-ROM Drive <b>Floppy Disk Drive</b> LAN Boot	Select the second device that will be searched for boot instructions.
3rd Boot Device	<b>Hard Disk Drive</b> CD-ROM Drive Floppy Disk Drive LAN Boot	Select the third device that will be searched for boot instructions.
4thBoot Device	Hard Disk Drive CD-ROM Drive Floppy Disk Drive <b>LAN Boot</b>	Select the fourth device that will be searched for boot instructions.

Table 11: *Boot Sequence*

***Note:** please note that some USB devices may not be detected by the BIOS Setup (USB optical disc drive, for instance). However, if you need to boot from this device, you will be able to do so without making any changes in the BIOS Setup Boot Order.*



## EXIT MENU

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Use this menu to implement or discard the changes you made to the BIOS Setup, and/or to exit the utility. Select any parameter and press **Enter** to perform the corresponding action.

*Note: you will always be prompted for confirmation.*

Parameter	Description
Save Changes and Exit	Accepts changes made to current settings, and exits BIOS Setup.
Discard Changes and Exit	Exits Setup without applying any changes that have been made during this session.
Get Default Values	Loads default configuration settings that were defined before the computer left the factory.
Load Previous Values	Reverses any changes that have been made during this session.

Table 12: Exit Menu