# XPC User Guide

For the : SN68SG2

# Shuttle XPC EMI Test Statement

Shuttle XPC have been through EMI tests according to the following series of regulations: N55022: 1998/A1: 2000/A2: 2003;AS/NZS CISPR22: 2004,EN55024: 1998/A1: 2001/A2: 2003; AS/NZS CISPR24:2002,FCC Rules CFR47 Part 15 Subpart B Class B,ANSI C63.4-2003, CNS13438(2006);CNS14336(2005). The items tested are illustrated as follows:

(A) Voltage: AC 110V/60HZ & AC 230V/50HZ

(B) Tested Product Information:

Product Name: XPC

Status: Sample

Model Name: SN68SG2 Series

S/N:N/A

CPU:

External Frequency: 200 MHz

AMD Athlon™ 64x2 : 6000+

Clear CMOS button: 1 port

USB 2.0 Port: 6 ports

1394 Port: 1 port with 6 pins respectively, 1 port with 4 pins.

LAN Port: 1 port (10Mbps/100Mbps/1000Mbps)

Mic-In & Line-In & Earphone Ports: 1 port for each

Center/Bass-Out Port: 1 port

Surround-Out Port: 1 port

Surround-Back Port: 1 port

Front-Out Port: 1 port

SPDIF-Out (Optical) Port: 1 port

SPDIF-In (Optical) Port: 1 port

DIMM Memory (optional): DDR2 2GB *2

Power Cable: Detachable and Shielded (with a GND pin)

D-Sub Port : 1920 X 1440 V: 75Hz

All CPUs have completely been tested, and values offered by the worst EMI combination of CPU external frequency are listed as follows:

| Test Mode | External Frequency | CPU | CPU Open/Close |
|---|---|---|---|
| 1 | 200MHz | AMD Athlon™ 64X2 6000+ | Close |
| 2 | 200MHz | AMD Athlon™ 64X2 6000+ | Open |

(C) Remedy for the Tested Product & Its EMI Interference:

Remedy: N/A

EMI Interference:

Crystal : 32.768 KHz(X5)/ 24.576 MHz(X4)/ 25 MHz(X6)

(D) Supported Host Peripherals:

| Host Peripheral | Product Name | Model Name |
|---|---|---|
| # 1 | Case | SN68SG2 |
| # 2 | Power Supply | PC40N250EV16DLA380 |
| # 3 | Serial ATA II HITACHI | HDT7225 |
| # 4 | DVD Dual Player | PX-712SA |

(E) Notices for Assembling Computers:

1. Cases should be made of iron or other metal that has good electric conductivity.
2. Cylinders in a case should be made of metal, and as having a mainboard mounted in a case, make sure screws are all utilized and fastened on a mainboard.
3. An I/O shielding should be contacted with I/O metallic parts of a mainboard.
4. Cables should appropriately be arranged and fixed in a case. Follow instructions:
   - Leave IDE cables not crossed upon CPU and SDRAM;
   - Leave power cables minimum in length, and not crossed upon a mainboard;
   - Leave CPU fan cables minimum in length, and not near CPU;
   - Leave cables on panels and other spare cables tied in a computer case.
5. Make sure an EMI shielding attached to a case has properly been installed.
6. Make sure a 5.25" or 3.5" FDD and screws are fastened to an EMI shielding.
7. Make sure a case is closely in contact with EMI connected points.
8. Make sure there is no cleft in a case which is not deformed.
9. Make sure a PCI or AGP door is bound to a case.
10. Make sure cables of other devices (fans or some others) are fixed in a case.

Shuttle®

XPC Installation Guide

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This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

## Trademarks

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## General Notice

Other brand and product names used herein are for identification purposes only and may be trademarks of their respective owners.

## Safety Information

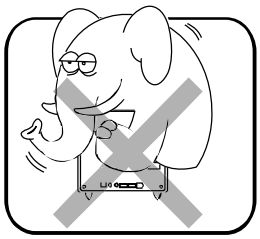
Read the following precautions before setting up a Shuttle XPC.

### CAUTION

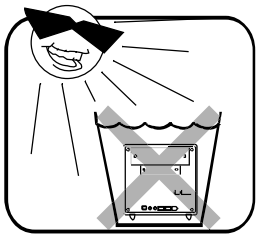
Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle. Dispose of used batteries according to the manufacturer's instructions.

## Installation Notices

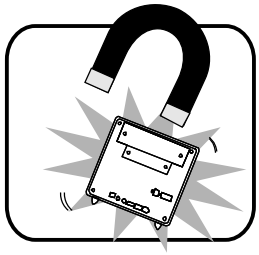
**Do not place this device underneath heavy loads or in an unstable position.**



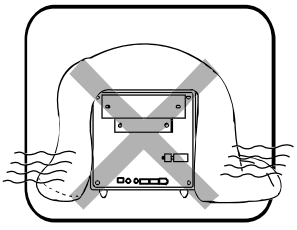
**Do not expose this device to high levels of direct sunlight, high-humidity or wet conditions.**



**Do not use or expose this device around magnetic fields as magnetic interference may affect the performance of the device.**



**Do not block the air vents to this device or impede the airflow in any way.**



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# 1 Driver and Software Installation

English

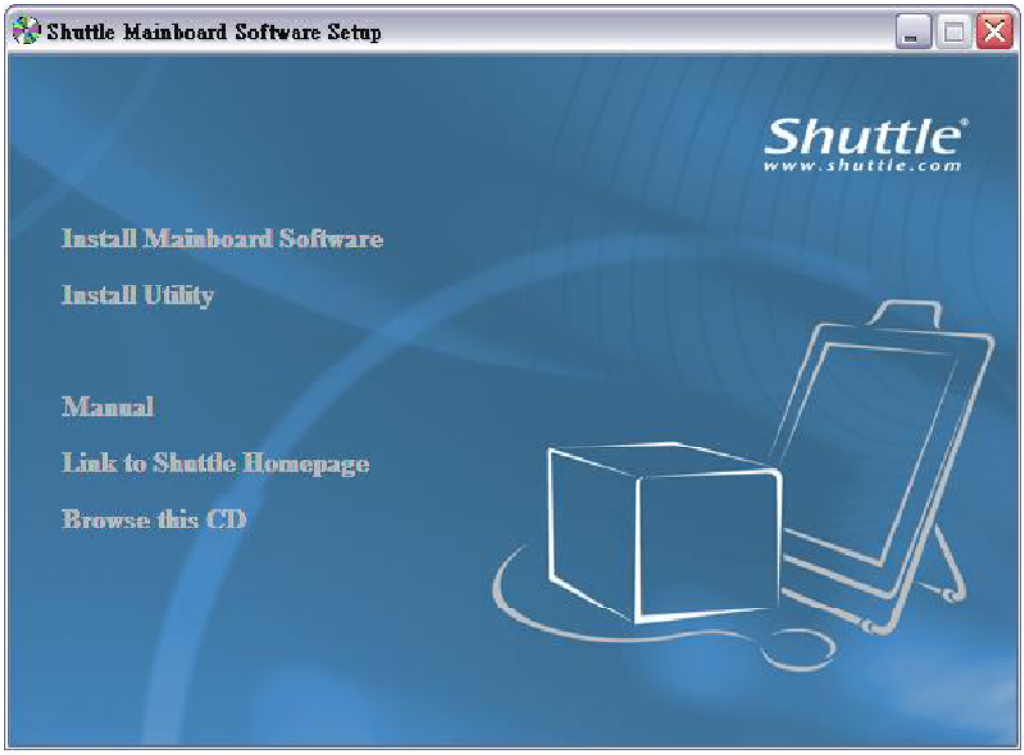
## ■ 1.1 Mainboard Driver CD

> Note: The CD contents attached in SN68SG2 mainboard are subject to change without notice.

The Mainboard Driver CD contains all the motherboard driver necessary to optimize the performance of this XPC in a Windows(R) OS. Install these drivers after installing Microsoft(R) Windows(R).

Navigation Bar Description :

- ☞ Install Mainboard Software - nVIDIA Chipset Driver, High Definition Audio Driver.
- ☞ Install Utility - XPC Tools.
- ☞ Manual - SN68SG2 user's guide and nVIDIA manual in PDF format.
- ☞ Link to Shuttle Homepage - Link to shuttle website homepage.
- ☞ Browse this CD - Allows you to see contents of this CD.

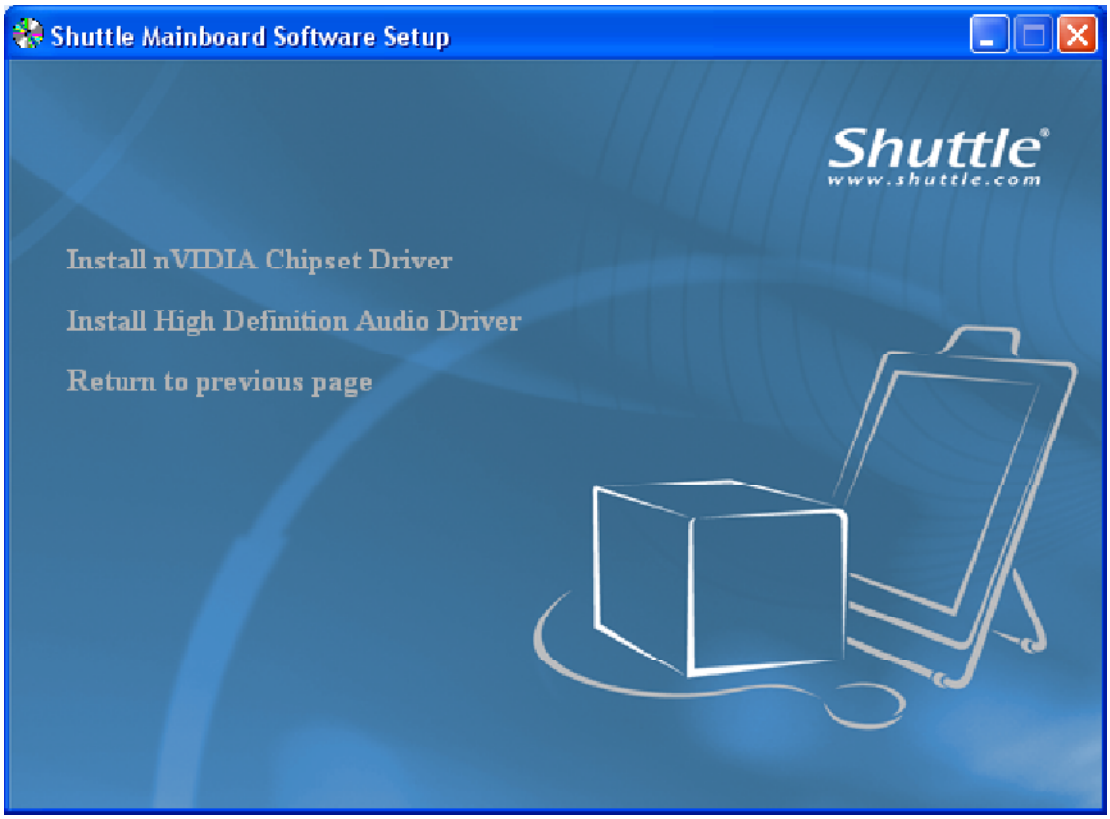


## ■ 1.1.1 Install Mainboard Software

Insert the attached CD into your CD-ROM drive. The CD AutoRun screen should appear. If the AutoRun screen does not appear, double click on Autorun icon in My Computer to bring up Shuttle Main-board Software Setup screen.

Click the "Install Main-board Software" bar. Individually install the following drivers.

- ☞ Install nVIDIA Chipset Driver
- ☞ Install High Definition Audio Driver



## BIOS Settings

The SN68SG2 BIOS ROM has a built-in Setup program that allows users to modify basic system configuration. This information is stored in battery-backed RAM so that it retains Setup information even if the system power is turned off.

The system BIOS manages and executes a variety of hardware related functions including:

System date and time

Hardware execution sequence

Power management functions

Allocation of system resources

## Enter the BIOS

To enter the BIOS (Basic Input / Output System) utility, follow these steps:

Step1. Power on the computer. The system will perform its POST (Power-On Self Test) routine checks.

Step2. Press the <Del> key immediately, or at the following message:
Press DEL to enter SETUP, or simultaneously press <Ctrl>,<Alt>, <Esc> keys

Note 1. If you miss the train of words mentioned in step2 (the message disappears before you can respond) and you still wish to enter BIOS Setup, restart the system and try again by turning the computer OFF and ON again or by pressing the <RESET> switch located at the computer's front-panel. You may also reboot by simultaneously pressing the <Ctrl>,<Alt>, <Del> keys simultaneously.

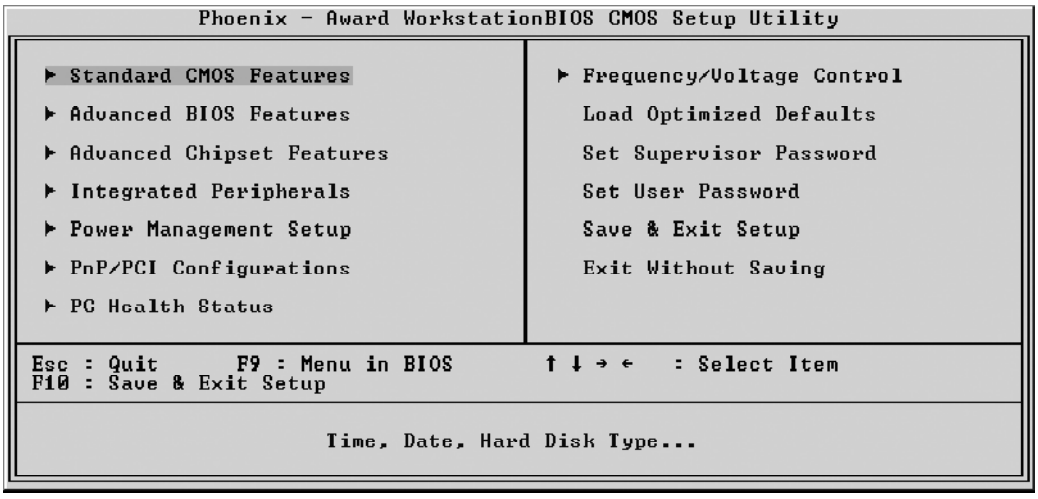
Note 2. If you do not press the keys in time and system does not boot, the screen will prompt an error message, and you will be given the following options:

"Press F1 to Continue, DEL to Enter Setup"

Step3. When you enter the BIOS program, the CMOS Setup Utility will display the Main Menu, as shown in the next section.

## The Main Menu

Once you enter the AwardBIOS(tm) CMOS Setup Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions and two exit choices. Use the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.




Note that a brief description of each highlighted selection appears at the bottom of the screen.

### *Setup Items*

The main menu includes the following main setup categories. Recall that some systems may not include all entries.

### *Standard CMOS Features*

Use this menu for basic system configuration.

### *Advanced BIOS Features*

Use this menu to set the Advanced Features available on your system.

### *Advanced Chipset Features*

Use this menu to change the values in the chipset registers and optimize your system's performance.

### *Integrated Peripherals*

Use this menu to specify your settings for integrated peripherals.

### *Power Management Setup*

Use this menu to specify your power management settings.

### *PnP / PCI Configurations*

This entry appears if your system supports PnP / PCI.

### *PC Health Status*

This entry displays the current system temperature, Voltage, and FAN settings.

### *Frequency/Voltage Control*

Use this menu to specify your settings for Frequency/Voltage control.

### *Load Optimized Defaults*

Use this menu to load the BIOS default values that are factory-set for optimal system operation. While Award has designed the custom BIOS to maximize performance, the factory has the right to change these defaults to meet users' needs.

### *Set Supervisor / User Password*

Use this menu to change, set, or disable password protection. This allows you to limit access to the system and Setup, or only to Setup.

### *Save & Exit Setup*

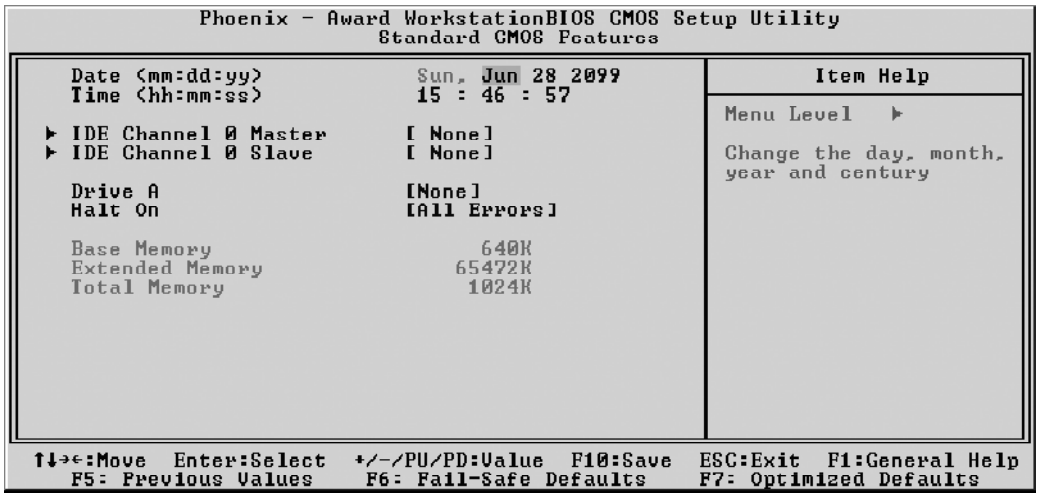
Save CMOS value changes in CMOS and exit from setup.

### *Exit Without Saving*

Abandon all CMOS value changes and exit from setup.

## *Standard CMOS Features*

The items in the Standard CMOS Setup Menu are divided into several categories. Each category includes none, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.




Date

<Month> <DD> <YYYY>

Set the system date. Note that the 'Day' automatically changes when you set the date.

Time

<HH : MM : SS>

The time is converted based on the 24-hour military-time clock. For example, 5 p.m. is 17:00:00.

IDE Channel 0 Master/Slave

Options are in its sub-menu.

Press <Enter> to enter the sub-menu of detailed options.

Drive A

Select the type of floppy disk drive installed in your system.

- The choice: None, 1.44M, 3.5 in, or 2.88M, 3.5 in.

Halt On

Select the situation in which you want the BIOS to stop the POST process and notify you.

- The choice: All Errors, No Errors, All, But Keyboard or All, But Diskette.

Base/Extended/Total Memory

Theseitems are automatically detected by the system at start up time. These are display-only fields. You can't make change to these fields.

**********

IDE Adapters

The IDE adapters control the hard disk drive. Use a separate sub-menu to configure each hard disk drive.

IDE HDD Auto-Detection

Press <Enter> to auto-detect HDD on this channel. If detection is successful, it fills the remaining fields on this menu.

- Press Enter

IDE Channel 0 Master

Selecting 'manual' lets you set the remaining fields on this screen and select the type of fixed disk. "User Type" will let you select the number of cylinders, heads, etc., Note: PRECOMP=65535 means NONE !

- The choice: None, Auto, or Manual.

Access Mode

Choose the access mode for this hard disk.

- The choice: CHS, LBA, Large, or Auto.

Capacity

Disk drive capacity (Approximated). Note that this size is usually slightly greater than the size of a formatted disk given by a disk checking program.

- Auto-Display your disk drive size.

The following options are selectable only if the 'IDE Primary Master' item is set to 'Manual'

Cylinder

Set the number of cylinders for this hard disk.

- Min = 0, Max = 65535

Head

Set the number of read/write heads.

- Min = 0, Max = 255

Precomp
Warning: Setting a value of 65535 means no hard disk.

- Min = 0, Max = 65535

Landing zone

Set the Landing zone size.

- Min = 0, Max = 65535

Sector
Number of sector per track.

- Min = 0, Max = 255

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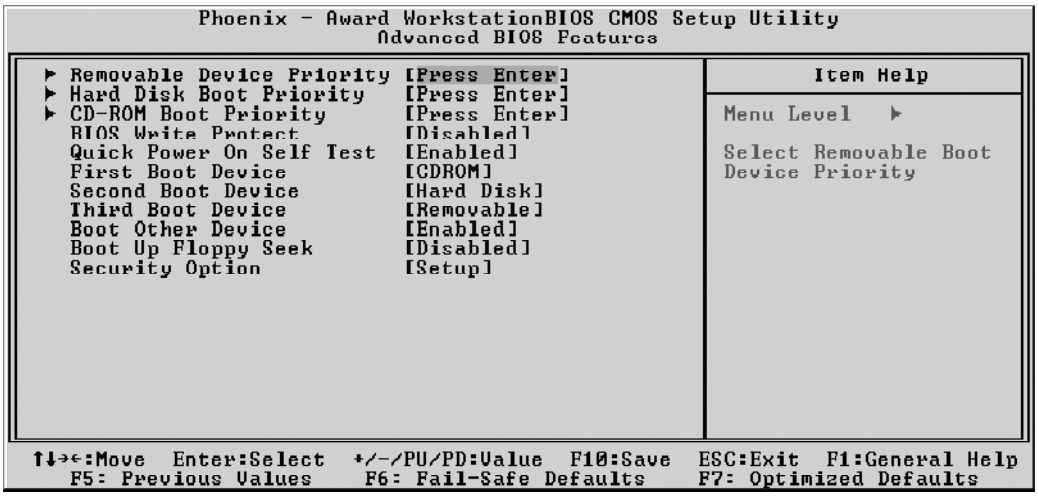
## *Advanced BIOS Features*

This section allows you to configure your system for basic operation. You have the opportunity to select the system's default speed, boot-up sequence, keyboard operation, shadowing, and security.




### Removable Device Priority

Options are in its sub-menu.

Press <Enter> to enter the sub-menu of detailed options.

### Hard Disk Boot Priority

This item allows you to select Hard Disk Book Device Priority.

### CD-ROM Boot Priority

This item allows you to select CD-ROM Book Device Priority.

### Bios Write Protect

This item allows you to enable or disable the Bios Write Protect.
If you want to flash BIOS, you must set it [Disabled].

- The choice: Enabled or Disabled.

### Quick Power On Self Test

This item speeds up Power-On Self Test (POST) after you power on the computer. If it is set to enabled, BIOS will shorten or skip some check items during POST.

- The choice: Enabled or Disabled.

First/Second/Third Boot Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items.

- The Choice: NVIDIA Boot Age, Hard Disk, CDROM, Legacy LAN, Removable or Disabled.

Boot Other Device

Select Your Boot Device Priority.

- The choice: Enabled or Disabled.

Boot Up Floppy Seek

Seeks disk drives during boot-Up. Disabling speed boots up. Enabled tests floppy drives to determine whether they have 40 or 80 tracks.

- The choice: Enabled or Disabled.

Security Option

Select whether the password is required every time the system boots or only when you enter setup.

| | |
|---|---|
| System | The system will not boot and access to Setup will be denied if the correct password is not entered promptly. |
| Setup | The system will boot, but access to Setup will be denied if the correct password is not entered promptly. |

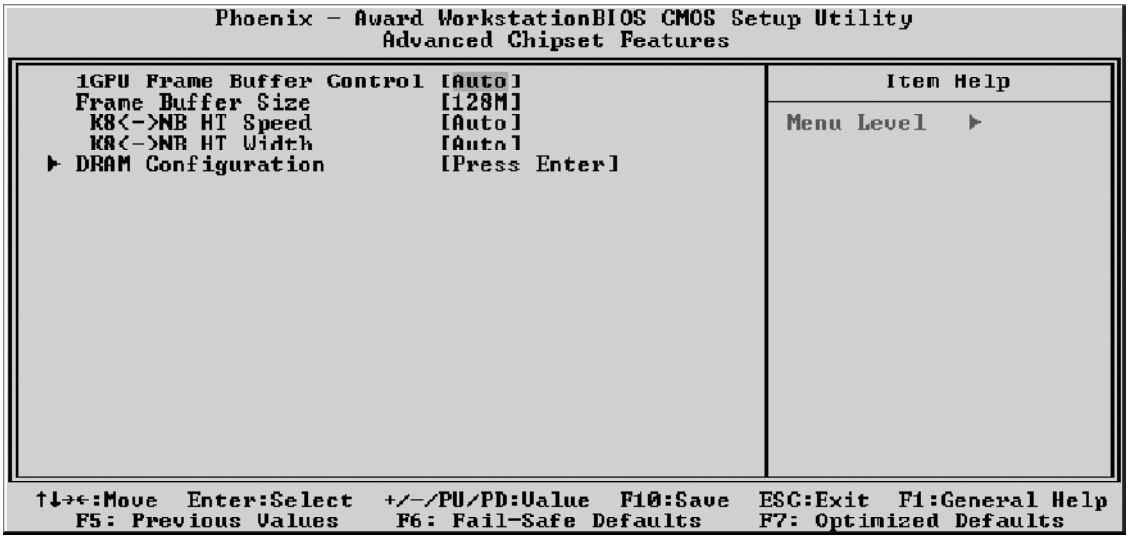
- The choice: System or Setup.

Note : To disabled security, select PASSWORD SETTING at Main Menu, and then you will be asked to enter password. Do not type anything and just press <Enter>; it will disable security. Once the security is disabled, the system will boot, and you can enter Setup freely.

## *Advanced Chipset Features*

This section allows you to configure the system based on the specific features of the installed chipset. This chipset manages bus speeds and access to system memory resources, such as DRAM and the external cache. It also coordinates communications between the conventional ISA bus and the PCI bus. It states that these items should never need to be altered.

The default settings have been chosen because they provide the best operating conditions for your system. If you discovered that data was being lost while using your system, you might consider making any changes.




iGPU Frame Buffer Control

This item allows you to set the iGPU Frame Buffer Control.

- The choice: Auto or Manual.

Frame Buffer Size

This item allows you to set the Frame Buffer Size.

- The choice: 64M, 128M, 256M or Disabled.

K8 <--> NB HT Speed

This item allows you to set the NB HT Speed.

- The choice: Auto, 1x~5x.

K8 <--> NB HT Width

This item allows you to set the NB HT Width.

- The choice:↓8 ↑8 or ↓16 ↑16.

DRAM Configuration

Options are in its sub-menu.

Press <Enter> to enter the sub-menu of detailed options.

Timing Mode

- The Choice: Auto or MaxMemClk.

Memory Clock value or Limi

Setting platform Memclock.

- The Choice: DDR533, DDR667 or DDR800.

DDRII Timing Item

- The Choice: Enabled or Disabled.

TwTr Command Delay

- The Choice: 1～3 bus clocks.

Trfc0 for DIMM0

- The Choice: 75ns, 105ns, 127.5ns, 195ns, or 327.5ns.

Trfc1 for DIMM1

- The Choice: 75ns, 105ns, 127.5ns, 195ns, or 327.5ns.

(Twr) Write Recovery Time

- The Choice: 3～6 bus clocks.

(Trtp) Precharge Time

- The Choice: 2～3 clocks.

(Trc) Row Cycle Time

- The Choice: 11～26 bus clocks.

(Trcd)RAS to CAS R/W Delay

- The Choice: 3～6 clocks.

(Trrd)RAS to RAS Delay

- The Choice: 2～5 clocks.

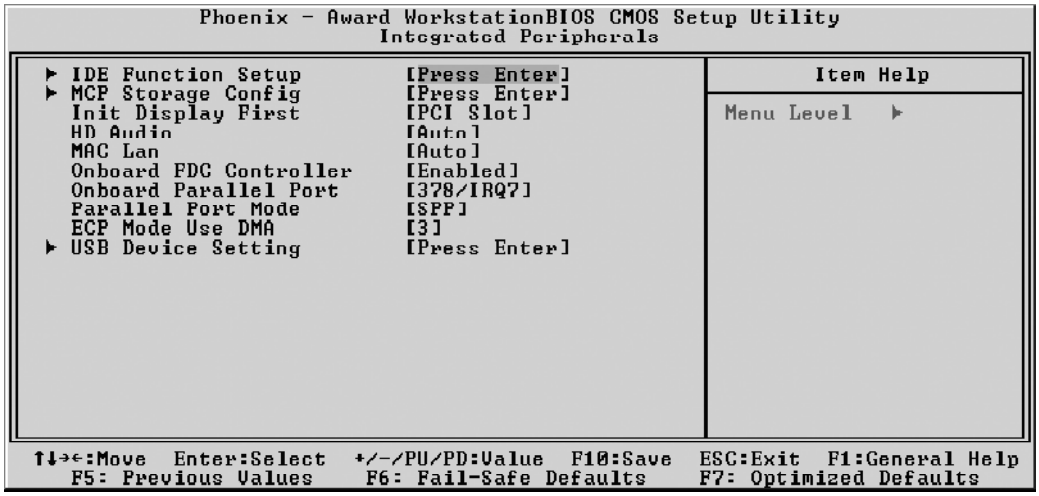
(Trp)Row Precharge Time

- The Choice: 3～6 clocks.

(Tras)Minimum RAS Active Time

- The Choice: 5～18 bus clocks.

## *Integrated Peripherals*




IDE Function Setup

Options are in its sub-menu.

Press <Enter> to enter the sub-menu of detailed options.

OnChip IDE Channel 0

The chipset contains a PCI IDE interface with support to two IDE channels. Select Enabled to activate the primary IDE interface. select Disabled to deactivate this interface.

➢ The Choice: Enabled or Disabled.

Primary Master/Slave PIO

The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device.

➢ The choice: Auto, Mode 0, Mode 1, Mode 2, Mode 3, or Mode 4.

Primary Master/Slave UDMA

Ultra DMA/100 implementation is possible only if your IDE hard drive supports it and the operating environment includes a DMA driver (Windows 95 OSR2 or a third-party IDE bus master driver). If both of your hard drive and your system software support Ultra DMA/100, select Auto to enable BIOS support.

➢ The choice: Auto or Disabled.

Serial-ATA Controller

This item allows you to enable/disable the SATA transfer access.

- The choice: Enabled, or Disabled.

IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read/write. If your IDE hard drive supports block mode(most new drivers do), select Enabled for automatic detection of the optimal number of block read/write per sector the drive can support.

- The Choice: Enable or Disabled.

MCP Storage Config

Options are in its sub-menu.

Press <Enter> to enter the sub-menu of detailed options.

SATA Operation Mode

This item allows you to set the SATA Mode.

- The choice: IDE, RAID or AHCI.

SATA Pri-Master/Slave

This item allows you to set the SATA Pri-Master/Slave.

- The Choice: Enabled or Disabled.

SATA Sec-Master/Slave

This item allows you to set the SATA Sec-Master/Slave.

- The Choice: Enabled or Disabled.

Init Display First

This item is used to determine initial device when system power on.

- The choice: PCI Slot, Onboard or PCI-Ex.

HD Audio

This item allows you to control the HD Audio.

- The Choice: Auto or Disabled.

MAC Lan

This item allows you to control the MAC Lan.

- The Choice: Auto or Disabled.

Onboard FDC Controller

This item specifices onboard floopy disk drive controller. This setting allows you to connect your floopy disk drives to the onboard floopy connector.

- The Choice: Enable or Disabled.

Onboard Parallel Port

This item allows you to determine onboard parallel port controller I/O address and interrupt request ( IRQ ).

- The choice: 378/IRQ7, 278/IRQ5, 3BC/IRQ7, or Disabled.

Parallel Port Mode

Select an operating mode for the onboard parallel (printer) port. Select Normal, Compatible, or SPP unless you are certain your hardware and software both support one of the other available modes.

- The choice: SPP, EPP, ECP, or ECP+EPP.

ECP Mode Use DMA

When the onboard parallel is set to ECP mode, the parallel port can use DMA3 or DMA1.

- The choice: 1 or 3.

USB Device Setting

Option are in its sub-menu.

Press <Enter> to enter the sub-menu of detailed options.

USB Operation Mode

Auto decide USB device operation mode.

High speed: If USB device was high speed device, then it operated on high speed mode.If USB device was full/low speed device, then it operated on full/low speed mode.

Full/Low Speed: All of USB device operated on full/low speed mode.

- The choice: High speed or Full/Low Speed.

*** USB Mass Storage Device Boot Setting ***

UFDDA USB Floppy

UFDDB USB Floppy

No Device

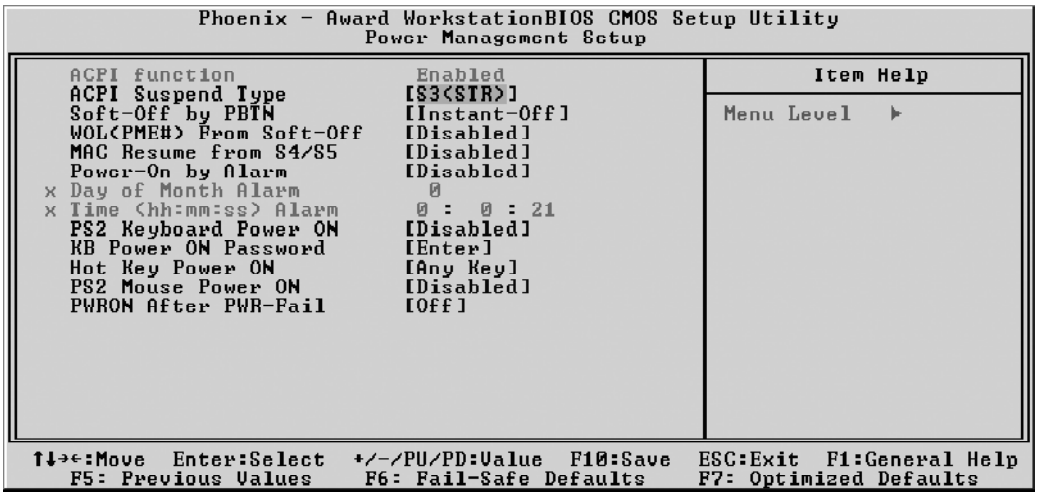
Auto: According to contents of USB MSD decide boot up type.

FDD Mode: The USB MSD always boot up as floppy disk.

HDD Mode: The USB MSD always boot up as hard disk.

- The choice: Auto mode, FDD mode or HDD mode.

## *Power Management Setup*




The Power Management Setup allows you to configure your system to most effectively saving energy while operating in a manner consistent with your own style of computer use.

### ACPI Function

This item allows you to enable/disable the Advanced Configuration and Power Management (ACPI).

- Always "Enabled".

### ACPI Suspend Type

This item allows you to select sleep state when suspend.

- The choice: S1(POS) or S3(STR).

### Soft-Off By PBTN

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has " hung".

- The choice: Delay 4 Sec or Instant-Off.

### WOL(PME#) From Soft-Off

If this item sets to Enable, the system power will be turned on when the LAN port receives an incoming signal. You have to connect the fax/modem to the mainboard Wake On LAN connector for this feature to work.

- The choice: Enabled or Disabled.

MAC Resume from S4/S5

This item allows you to enable/disable the MAC Resume from S4/S5.

- The choice: Disabled or Enabled.

Power-On by Alarm

When this item enabled, your can set the date (day of the month) and time to turn on your system.

- The choice: Disabled or Enabled.

Date(of Month) Alarm

This item selects the alarm Date (day of the month).

- Key in a DEC number: Min=0, Max=31.

Time(hh : mm : ss) Alarm

This item selects the alarm Time.

[hh] ➢ Key in a DEC number: Min=0, Max=23.

[mm/ss] ➢ Key in a DEC number: Min=0, Max=59.

PS2 Keyboard Power ON

This item allows you to set the Keyboard Power On function.

- The choice: Disabled, password, or Hot KEY.

KB Power ON Password

This item allows you to set the KB Power On Password.

- Press" Enter" to set Password.

Hot Key Power On

This item allows you to set the Hot Key Power On.

- The choice: Any Key, Ctrl-F1 ~ Ctrl-F12.

PS2 Mouse Power ON

This item allows you to set the the Mouse Power On function.

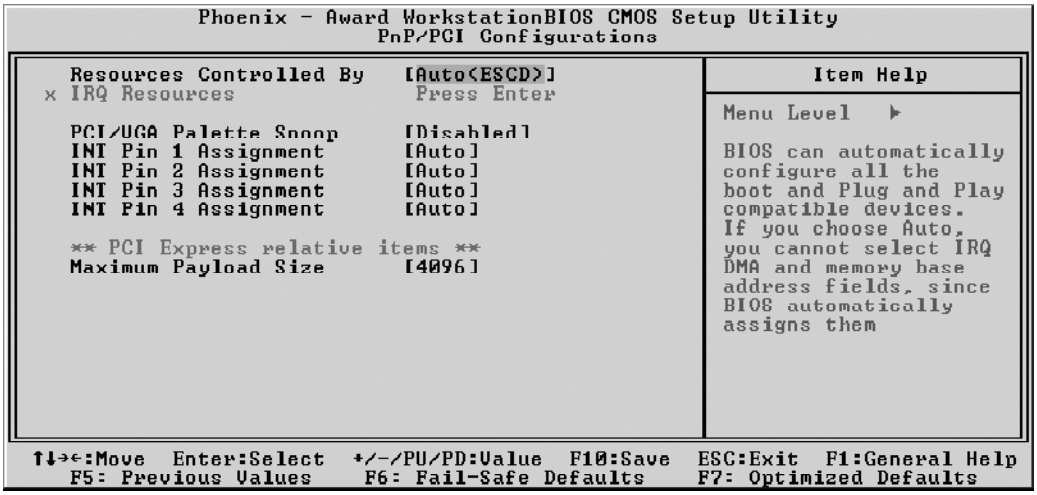
- The choice: Disabled or Enabled.

PWRON After PWR-Fail

This item allows you to select power on function when power fail.

- The choice: Off or On.

## PnP/PCI Configurations




This section describes the configuration of PCI bus system. PCI or Personal Computer Interconnection is a system which allows I/O devices to operate at the speed CPU itself keeps when CPU communicating with its own special components.

This section covers some very technical items, and it is strongly recommended that only experienced users should make any changes to the default settings.

Resource controlled By

The Award Plug-and-Play BIOS has the capacity to automatically configure all of the boot and Plug-and-Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug-and-Play operating system such as Windows 95.

If you set this field to "manual" , choose specific resources by going into each of the sub-menu that follows this field (a sub-menu is proceeded by a ">").

- The choice: Auto(ESCD) or Manual.

IRQ Resources

When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt.

IRQ5/7/9/10/11/14 assigned to

This item allows you to determine the IRQ assigned to the ISA bus and is not available to any PCI slot. Legacy ISA for devices is compliant with the original PC AT bus specification; PCI/ISA PnP for devices is compliant

with the Plug-and-Play standard whether designed for PCI or ISA bus architecture.

- The choice: PCI Device or Reserved.

PCI/VGA Palette Snoop

It determines whether the MPEG ISA/VESA VGA Cards can work with PCI/VGA or not. If you have MPEG ISA/VESA VGA Cards and PCI/VGA Card worked, Enable this field. Otherwise, please Disable it.

- The choice: Enabled or Disabled.

INP Pin 1～4 Assignment

This item allows you to set the INP Pin 1～4 Assignment.

- The choice: Auto, 3, 4, 5, 7, 9, 10, 11, 12, 14, or 15.

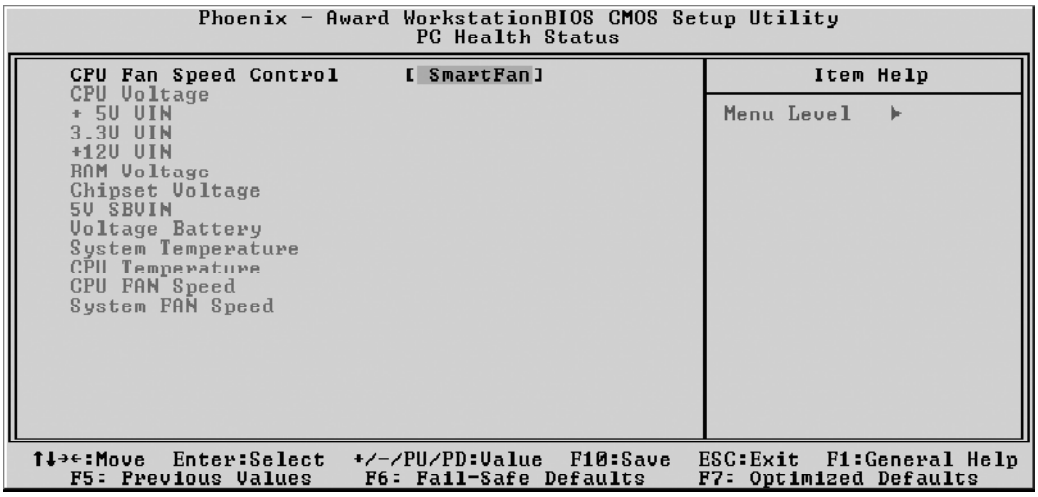
** PCI Express relative items **

Maximum Payload Size

Set maximum TLP payload size for the PCI Express devices.
The unit is byte.

- The choice: 128, 256, 512, 1024, 2048 or 4096.

## *PC Health Status*




CPU Fan Speed Control

Here you can set the CPU Fan Speed.

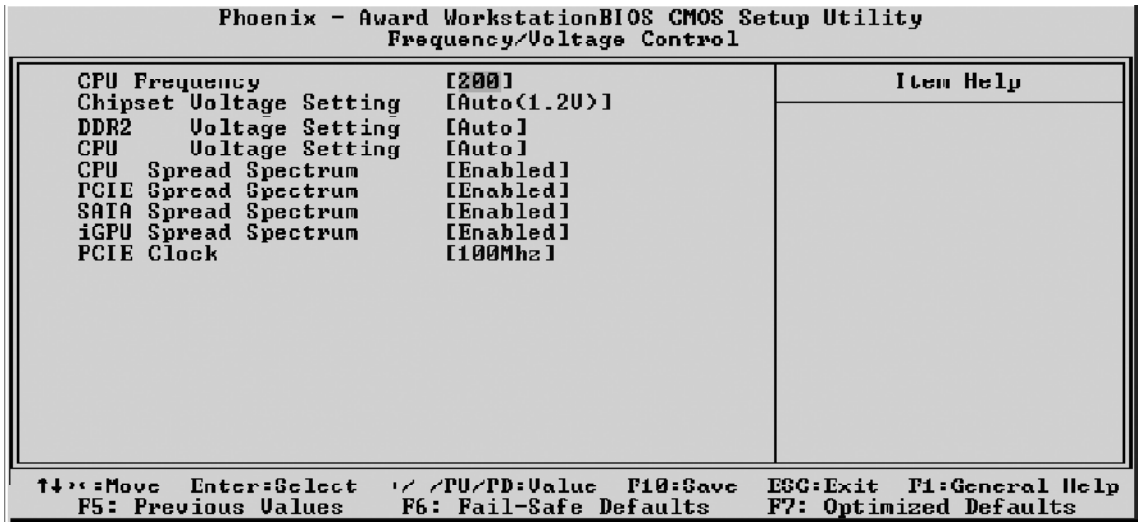
- The choice: Smart Fan, Ultra-Low, Low, Mid, or Full.

CPU Voltage
+ 5V VIN
3.3V VIN
+12V VIN
RAM Voltage
Chipset Voltage
5V SBVIN
Voltage Battery
System Temperature
CPU Temperature
CPU FAN Speed
System FAN Speed

Note: Before manually modifying the CPU fan setting, please make sure fan connectors are plug ged into the correct fan conne ctor on the mainboard.

Warning:
It is strongly recommended to disable 'Smart Fan' if you use an alternative fan to the default.

## *Frequency/Voltage Control*




CPU Frequency

This item allows you to enable or disable the spread spectrum modulation.

- The choice: 200 ~ 300.

Chipset Voltage Setting

This item allows you to set the Chipset Voltage.

- The choice: Auto <1.2V>, 1.3V, 1.4V, or 1.5V.

DDR2 Voltage Setting

This item allows you to set the DDR2 Voltage.

- The choice: Auto, 1.825V ~ 2.575V.

CPU Voltage Setting

This item allows you to set the CPU Voltage.

- The choice: Auto, +10mV ~ +400mV.

CPU Spread Spectrum

This item allows you to enable or disable the CPU spread spectrum.

- The Choice: Enabled or Disabled.

PCIE Spread Spectrum

This item allows you to enable or disable the PCIE spread spectrum.

- The Choice: Enabled or Disabled.

SATA Spread Spectrum

This item allows you to enable or disable the SATA spread spectrum.

- The Choice: Enabled or Disabled.

iGPU Spread Spectrum

This item allows you to set the iGPU Spread Spectrum.

- The choice: Enabled or Disabled.

PCIE Clock

This item allows you to set the PCIE Clock.

- The choice: 100～150Mhz.

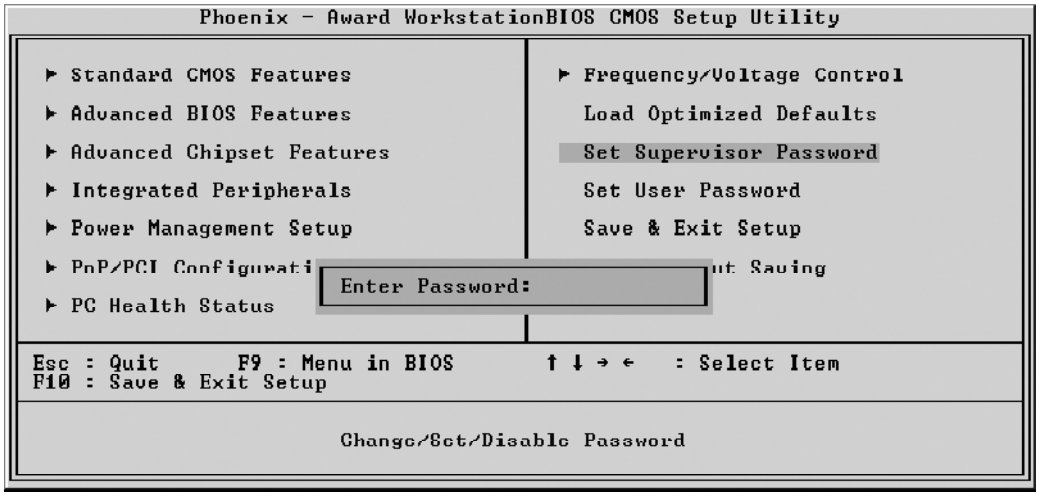
### *Load Optimized Defaults*

When you press <Enter> on this item, you will get a confirmation dialog box with a message similar to:

Load Optimized Defaults (Y/N) ? N

Pressing 'Y' loads the default values that are factory-set for optimal performance system operation.

### *Set Supervisor/User Password*




Steps to set supervisor/user password are described as follows:

New Password Setting:

1. Press the <Enter> key. A dialog box appears to ask you to "Enter password: ".
2. Key in a new password.

   The password can not be over eight characters or numbers.
3. The system will then request you to confirm the new password by asking you to key in the new password again.
4. Once the confirmation is completed, new code is in effect.

No Password Setting:

5. If you want to delete the password, just press the <Enter> key instead of typing a new password. Follow the procedure as above.

If You Forget Password:

6. If you forget your password, you must turn off the system and clear CMOS.

   Please refer to the tech notes at the end of section two for more information.

## Save & Exit Setup

Pressing <Enter> on this item asks for confirmation:

SAVE to CMOS and EXIT (Y/N)? Y

Pressing "Y" stores the selections made in the menus of CMOS - a special section of memory that stays on after you turn your system off. The next time you boot your computer, the BIOS configures your system according to the Setup selections stored in CMOS. After saving the values the system is restarted again.

## Exit Without Saving

Pressing <Enter> on this item asks for confirmation:

Quit Without Saving (Y/N)? N

This allows you to exit from Setup without storing in CMOS any change. The previous selections remain in effect. This exits from the Setup utility and restarts your computer.