

Chapter 3: Setup

About the Setup Utility

This chapter explains how to use and modify the BIOS setup utility that is stored on the mainboard. The setup utility stores data about the mainboard components and the configuration of devices that are connected to it. This information is used to test and initialize components at start-up time and to make sure everything runs properly when the system is operating.

The setup utility is installed with a set of default values. You will probably have to make changes to the setup utility whenever you add new components to your system such as new disk drives. You may be able to generate increased performance by changing some of the timing values in the setup, but this can be limited by the kind of hardware you are using, for example the rating of your memory chips. In certain circumstances, the system may generate an error message that asks you to make changes to the setup utility. This happens when the system finds an error during the POST (Power On Self Test) that it carries out at start up.

Starting the Setup Utility

You can only start the setup utility shortly after the computer has been turned on. A prompt appears on the computer display which says “*Press DEL to run Setup*”. When you see this prompt, press the **Delete** key, and the system will start the setup utility and display the main menu of the utility.

Using the Setup Utility

When you start setup, the main menu appears. The main menu of the setup utility shows a list of the options that are available. A highlight shows which option is currently selected. You can use the cursor arrow keys to move the highlight to other options. When an option is highlighted, you can execute the option by pressing the **Enter** key.

Some options lead to dialog boxes which ask you verify that that you wish to execute that option. You usually answer these dialogs by typing **Y** for yes and **N** for no. Some options lead to dialog boxes which ask for more information. Setting passwords have this kind of dialog box.

ROM PCI/ISA BIOS (P6SET-ML) CMOS SETUP UTILITY AWARD SOFTWARE, INC.	
STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS & CPU FEATURES SETUP	PASSWORD SETTING
CHIPSET FEATURES SETUP	IDE HDD AUTO DETECTION
POWER MANAGEMENT SETUP	SAVE & EXIT SETUP
PNP/PCI CONFIGURATION	EXIT WITHOUT SAVING
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift)F2 : Change Color

Some options lead to tables of items that usually have a value on the right side. The value of the first item is highlighted, and you can use the cursor arrow keys to select any of the other values in the table of items. When an item is highlighted, you can change the value by pressing the **PageUp** or **PageDown** keys, or the **Plus** or **Minus** keys. The **PageUp** and **Plus** keys cycle forward through the available values, the **PageDown** and **Minus** keys cycle backwards through the values.

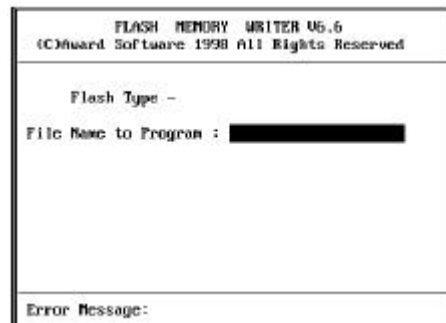
When you are in the main menu, you can exit the utility by pressing the **Escape** key. You can save the current selections and exit the utility by pressing the **F10** key. You can change the color scheme of the utility by pressing the **F2** key while holding down the **Shift** key. When you are in one of the options that displays a dialog box, you can return to the main menu by pressing the **Escape** key.

When you are in an option that displays a table of items, you can return to the main menu by pressing the **Escape** key. For some items, you can display a help message by pressing the **F1** key. You can change the color scheme of the utility by pressing the **F2** key while holding down the **Shift** key. Press **F5** to discard any changes you have made and return all items to the value that they held when the setup utility was started. Press **F6** to load the displayed items with a standard list of default values. Press **F7** to load the displayed items with a high-performance list of default values.

How to Flash a New BIOS

You can install an updated BIOS for this motherboard that you can download from the manufacturer's website. A new BIOS may provide support for new peripherals, improvements in performance or fixes to address known bugs. Install a new BIOS as follows:

1. Some mainboards have a Flash BIOS jumper that protects the current BIOS from being changed or overwritten. If your mainboard has this jumper, change the setting to allow flashing a new BIOS.
2. Your computer must be running in a real-mode DOS environment, not the DOS window of Windows NT or Windows 95/98. We recommend that you create a new formatted DOS system floppy diskette.
3. Locate the flash memory utility on the support CD-ROM. It's called AWD66.EXE. Copy this file to the new system diskette.
4. Copy the new BIOS file that you downloaded from the manufacturer's website to the newly formatted system diskette.
5. Turn off your computer and insert the newly formatted DOS diskette in your computer's diskette drive.
6. You might need to run the setup utility and change the boot priority items on the BIOS Features Setup page, to force your computer to boot from the floppy diskette drive first.
7. At the A:\ prompt, after your computer has booted a clean DOS from the diskette, type in the filename AWD66 and press **Enter**.



8. In the opening dialog box, type in the filename of the new BIOS and follow the onscreen directions to flash the new BIOS.
9. When the installation is complete, remove the floppy diskette from the diskette drive and restart your computer. If your mainboard has a Flash BIOS jumper, don't forget to reset the jumper to protect the newly installed BIOS from being overwritten.

Standard CMOS Setup Option

This option displays a table of items which defines basic information about your system.

ROM PCI/ISA BIOS (P6SET-ML)								
STANDARD CMOS SETUP								
AWARD SOFTWARE, INC.								
Date (mm:dd:yy) : Tue, Aug 10 1999								
Time (hh:mm:ss) : 17 : 20 : 29								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master	:	0	0	0	0	0	0	AUTO
Primary Slave	:	0	0	0	0	0	0	AUTO
Secondary Master	:	0	0	0	0	0	0	AUTO
Secondary Slave	:	0	0	0	0	0	0	AUTO
Drive A : None								
Drive B : None								
Floppy 3 Mode Support : Disabled								
Video : EGA/VGA								
Halt On : All Errors								
ESC : Quit		↑ ↓ → ← : Select Item		PU/PD/+/- : Modify				
F1 : Help		(Shift)F2 : Change Color						

Date and Time

The Date and Time items show the current date and time held by your computer. If you are running a Windows OS, these items are automatically updated whenever you make changes to the Windows Date and Time Properties utility.

Hard Disks

Defaults: Auto

These items show the characteristics of hard disk drives on the two available IDE channels. (Note that SCSI hard disk drives do not appear here.) You can automatically install most hard disks using the IDE HDD Auto Detect Option from the main menu. If you find that a drive cannot be automatically detected, you can use these items to select USER, then manually enter the characteristics of the drive. The documentation provided with your drive provides the data you need to fill in the values for CYLS (cylinders), HEAD (read/write heads), and so on.

The drive documentation drive may not tell you what value to use under the MODE heading. If the drive is smaller than 528 MB, set MODE to Normal. If the drive is larger than 528 MB and it supports Logical Block Addressing, set MODE to LBA. Very few high-capacity drives do not support Logical Block Addressing. If you have such a drive, you might be able to configure it by setting the MODE to Large. If you're not sure which MODE setting is required by your drive, set MODE to Auto and let the setup utility try to determine the mode automatically.

Drive A and Drive B**Default: 1.44M, 3.5 in., None**

These items define the characteristics of any diskette drive attached to the system. You can connect one or two diskette drives.

Floppy 3 Mode Support**Default: Disabled**

Floppy 3 mode refers to a 3.5" diskette with a capacity of 1.2 MB. Floppy 3 mode is sometimes used in Japan.

Video**Default: EGA/VGA**

This item defines the video mode of the system. This mainboard has a built-in VGA graphics system so you must leave this item at the default value.

Halt On**Default: All Errors**

This item defines the operation of the system POST (Power On Self Test) routine. You can use this item to select which kind of errors in the POST are sufficient to halt the system.

BIOS & CPU Features Setup Option

This option displays a table of items which defines more advanced information about your system. You can make modifications to most of these items without introducing fatal errors to your system.

ROM PCI/ISA BIOS (P6SET-ML) BIOS & CPU FEATURES SETUP AWARD SOFTWARE, INC.	
CPU Internal Core Speed : 350MHz CPU/SDRAM Bus Frequency : 100/100 MHz CPU Core:Bus Freq.Multiple : 3.5x Spread Spectrum : Disabled Auto DIMM Detect : Enabled Anti-Virus Protection : Disabled CPU Internal Cache : Enabled External Cache : Enabled Processor Number Feature : Enabled Quick Power On Self Test : Enabled Boot From LAN First : Disabled Boot Sequence : A,C,SCSI Swap Floppy Drive : Disabled Boot Up Floppy Seek : Enabled Boot Up NumLock Status : On Typematic Rate Setting : Disabled Typematic Rate (Chars/Sec) : 6 Typematic Delay (Msec) : 250 Security Option : Setup PCI/VGA Palette Snoop : Disabled	OS Select For DRAM > 64MB : Non-OS2 Report No FDD For WIN 95 : Yes Video BIOS Shadow : Enabled C8000-CBFFF Shadow : Disabled CC000-CFFFF Shadow : Disabled D0000-D3FFF Shadow : Disabled D4000-D7FFF Shadow : Disabled D8000-DBFFF Shadow : Disabled DC000-DFFFF Shadow : Disabled ESC : Quit ↑↓+* : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults

CPU Internal Core Speed**Default: 350 MHz**

Use this item to set up the mainboard for the kind of processor that you have installed. Set this item to the rated internal clock speed of the installed processor. If you set this to Manual, you can use the two items below *CPU/SDRAM Bus Frequency* and *CPU Core: Bus Freq. Multiple* to manually configure the processor.

CPU/SDRAM Bus Frequency**CPU Core: Bus Freq. Multiple**

These items can be changed if you have set the *CPU Internal Core Speed* to Manual. Use the *CPU Host Bus Frequency* to set the system bus frequency for the installed processor (usually 100 MHz). Then use *CPU Frequency* to set a multiple. The multiple times the system bus must equal the core speed of the installed processor e.g. **3.5 (multiple) x 100 MHz (system bus) = 350 MHz (installed processor clock speed)**.

Spread Spectrum**Default: Disabled**

When this item is enabled, it modulates the system clock generator pulses and can significantly reduce the EMI (electrical magnetic interference) that your system generates. However, it can introduce timing problems for some clock sensitive devices. We recommend that you leave this item at the default value.

Auto DIMM Detect**Default: Enabled**

If this item is enabled, the system will reduce the occurrence of electromagnetic interference (EMI) by turning off the clock generator signal to DIMM slots which are unoccupied.

Anti-Virus Protection**Default: Disabled**

When this item is enabled it provides some protection against viruses which try to write to the boot sector and partition table of your hard disk drive. This item is Disabled as a default so that you can install an operating system. We recommend that you enable Anti-Virus Protection as soon as you have installed your disk with an OS.

CPU Internal Cache**Default: Enabled**

All the processors that can be installed in this mainboard use internal (level 1) cache memory to improve performance. Leave this item at the default value Enabled for better performance.

External Cache**Default: Enabled**

Most processors that can be installed in this system use external (L2) cache memory to improve performance. The exceptions are older SEPP Celeron CPUs running at 266 or 300 MHz. Enable this item for all but these two processors.

Processor Number Feature**Default: Enabled**

Each Pentium-III processor cartridge is installed with a unique processor number. This number may be used for verification in internet transactions and e-commerce. If you prefer not to use or distribute the unique processor number, use this item to suppress the processor number.

Quick Power On Self Test	Default: Enabled
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You can enable this item to shorten the power on testing and have your system start up a little faster. You might like to enable this item after you are confident that your system hardware is operating smoothly.

Boot From LAN First	Default: Disabled
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Enable this item if you want your computer to remote boot an operating system from a network server.

Boot Sequence	Default: A,C,SCSI
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This item defines where the system will look for an operating system, and the order of priority. You can boot an OS from many locations including a SCSI or ZIP drive, a floppy diskette drive or an LS-120 high-capacity diskette drive.

Swap Floppy Drive	Default: Disabled
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If you have two floppy diskette drives in your system, this item allows you to swap around the assigned drive letters so that drive A becomes drive B, and drive B becomes drive A.

Boot Up NumLock Status	Default: Enabled
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This item defines if the keyboard Num Lock key is active when your system is started.

Typematic Rate Setting	Default: Disabled
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If this item is enabled, you can use the following two items to set the typematic rate and the typematic delay settings for your keyboard.

Typematic Rate (Chars/Sec)	Default: 6
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If the item Typematic Rate Setting is enabled, you can use this item to define how many characters per second are generated by a held-down key.

Typematic Delay (Msec)	Default: 250
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If the item Typematic Rate Setting is enabled, you can use this item to define how many milliseconds must elapse before a held-down key begins generating repeat characters.

Security Option	Default: Setup
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If you have installed password protection, this item defines if the password is required at system start up, or if it is only required when a user tries to enter the setup utility.

PCI/VGA Palette Snoop	Default: Disabled
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This item is designed to overcome some problems that can be caused by some non-standard VGA cards. This board includes a built-in VGA system that does not require palette snooping so you must leave this item disabled.

OS Select For DRAM > 64 MB	Default: Non-OS2
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This item is only required if you have installed more than 64 MB of memory and you are running the OS/2 operating system. Otherwise, leave this item at the default Non-OS2.

Report No FDD for WIN 95**Default: Yes**

If you are running a system with no floppy drive and using the Windows 95 OS, select Yes for this item to ensure compatibility with the Windows 95 logo certification.

Video BIOS Shadow**Default: Enabled**

This item allows the video BIOS to be copied to system memory for faster performance.

XXXXX-XXXXX Shadow**Default: Disabled**

These items allow the BIOS of other devices to be copied to system memory for faster performance.

Chipset Features Option

This option displays a table of items that define critical timing parameters of the mainboard components including the memory, and the system logic. Generally, you should leave the items on this page at their default values unless you are very familiar with the technical specifications of your system hardware. If you change the values incorrectly you may introduce fatal errors or recurring instability into your system.

ROM PCI/ISA BIOS (P6SET-ML) CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.		
Auto Configuration	: Enabled	Host2Mem Cycle Time Con : 8T
ISA Bus Clock Frequency	: PCICLK/4	
Starting Point of Paging	: 2T	
SDRAM CAS Latency	: 3T	
SDRAM WR Retire Rate	: X-1-1-1	
CPU to PCI Post Write	: Disabled	
CPU to PCI Burst Mem. WR	: Enabled	
System BIOS Cacheable	: Enabled	
Video BIOS Cacheable	: Enabled	
Memory Hole at 15M-16M	: Disabled	
AGP Aperture Size	: 64MB	
Concurrent function(MEM)	: Enabled	
Concurrent function(PCI)	: Enabled	
CPU Pipeline Control	: Disabled	
PCI Delay Transaction	: Enabled	
VGA DRAM 1T R/W Control	: Disabled	
SDRCLK	: +1.0 ns	ESC : Quit ↑↓←→ : Select Item
SDWCLK	: 0.0 ns	F1 : Help PU/PD/+/- : Modify
Refresh Queue Depth	: 4	F5 : Old Values (Shift)F2 : Color
Host2PCI Cycle Time Con	: Without	F6 : Load BIOS Defaults
		F7 : Load Setup Defaults

Auto Configuration**Default: Enabled**

If this field is enabled, the system will automatically configure the system based on the hardware detected.

ISA Bus Clock Frequency**Default: PCICLK/4**

This item sets the frequency for the legacy ISA bus slot on the mainboard. Leave this item at the default value PCICLK divided by four.

Starting Point of Paging	Default: 2T
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This item defines memory paging operations. Leave this item at the default value.

SDRAM CAS Latency	Default: 3T
SDRAM WR Retire Rate	Default: X-1-1-1

These two items set the timing and wait states for SDRAM memory. We recommend that you leave these items at the default value.

CPU to PCI Post Write	Default: Disabled
CPU to PCI Burst Mem. WR	Default: Enabled

These two items define the write sequence between the CPU and devices on the PCI bus. We recommend that you leave these items at the default value.

System BIOS Cacheable	Default: Enabled
Video BIOS Cacheable	Default: Enabled

These items allow the video and/or system to be cached in memory for faster execution. We recommend that you leave these items at the default value.

Memory Hole at 15M-16M	Default: Disabled
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This item can be used to reserve memory space for some ISA expansion cards that require it.

AGP Aperture Size	Default: 64MB
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This item defines the size of the aperture if you use an AGP graphics adapter. It refers to a section of the PCI memory address range used for graphics memory.

Concurrent function (MEM)	Default: Enabled
Concurrent function (PCI)	Default: Enabled

These items allow concurrent operations over the memory and PCI buses. We recommend that you leave these items at the default value.

CPU Pipeline Control	Default: Disabled
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Pipelining allows the system to signal the CPU for a new memory address even before all data transfers for the current cycle are complete. We recommend that you leave these items at the default value.

PCI Delay Transaction	Default: Enabled
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If the chipset has an embedded 32-bit write buffer to support delay transaction cycles, you can enable this item to provide compliance with PCI Ver. 2.1 specifications. We recommend that you leave this item at the default value.

VGA DRAM 1T R/W Control	Default: Disabled
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On this mainboard, a part of main memory is allocated as video memory for the onboard graphics adapter. This item defines the timing of the video memory. We recommend that you leave these items at the default value.

SDRCLK	Default: +1.0 ns
SDWCLK	Default: 0.0 ns

These items define the operation of memory reads and writes. We recommend that you leave these items at the default value.

Refresh Queue Depth	Default: 4
Host2PCI Cycle Time Con	Default: Without
Host2Mem Cycle Time Con	Default: 8T

These three items control transactions between the CPU and the memory and the PCI buses. We recommend that you leave these items at the default value.

Power Management Setup Option

This option displays items which let you control the system power management. Modern operating systems take care of much of the power management. This mainboard supports ACPI (advanced configuration and power interface). This system supports three power-saving modes; doze mode, standby mode, and suspend mode. Standby mode uses less power than doze mode and suspend mode uses the least power.

Power Management Timeouts

The power-saving modes can be controlled by timeouts. If the system is inactive for a time, the timeouts begin counting. If the inactivity continues so that the timeout period elapses, the system enters a power-saving mode. If any item in the list of *PM Events* is Enabled, then any activity on that item will restart the timeout counters.

Wake Up Calls

If the system is suspended, or has been powered down by software, it can be resumed by a wake up call that is generated by incoming traffic to a modem or LAN card, or a fixed alarm on the system realtime clock.

ROM PCI/ISA BIOS (P6SET-ML) POWER MANAGEMENT SETUP AWARD SOFTWARE, INC.			
Power Management	: User Define	Power Button Over Ride	: Instant Off
PM Control by APM	: Yes	Resume by Ring	: Disabled
Video Off Option	: Susp,Stby -> Off	Wake Up on PCI PME#	: Enabled
Video Off Method	: DPMS Supported	Resume by LAN	: Disabled
Switch Function	: Break/Wake	KB Power ON Function	: Power Key
Doze Speed (div by):	2/8	Power Up by Alarm	: Disabled
Stby Speed(div by):	1/8		
MODEM Use IRQ	: 3		
** PM Timers **			
HDD Off After	: Disable		
Doze Mode	: Disable		
Standby Mode	: Disable		
Suspend Mode	: Disable		
** PM Events **			
HDD Ports Activity	: Enabled	ESC : Quit	↑↓+* : Select Item
COM Ports Activity	: Enabled	F1 : Help	PU/PD/+/- : Modify
LPT Ports Activity	: Enabled	F5 : Old Values (Shift)	F2 : Color
VGA Activity	: Enabled	F6 : Load BIOS Defaults	
IRQ [3-7,9-15],NMI	: Disabled	F7 : Load Setup Defaults	
IRQ 8 Break Suspend	: Disabled		

Power Management**Default: User Define**

This item acts like a master switch for the power-saving modes and hard disk timeouts. If this item is set to Max Saving, doze, standby, and suspend mode, will occur after a short timeout. If this item is set to Min Saving, doze, standby, and suspend mode will occur after a longer timeout. If the item is set to User Define, you can insert your own timeouts for the power-saving modes.

PM Control by APM**Default: Yes**

Windows 95 and 98 have built-in power management capabilities called APM (Advanced Power Management). When you enable this item, you allow the APM routines in Windows to operate on your system.

Video Off Option**Default: Susp, Stby -> Off**

This option defines the level of power-saving mode required in to power down the video display. As a default, the video powers down both in suspend mode and standby mode.

Video Off Method**Default: DPMS Supported**

This item defines how the video is powered down to save power. As a default, this is set to DPMS supported (display power management software).

Switch Function**Default: Break/Wake**

If this item is enabled, it permits the use of a suspend switch. If the item is set to Break, the suspend switch puts the system in suspend mode. If the item is set to Break/Wake, you can press the suspend switch a second time to wake up the system. If the item is set to Disabled, the suspend switch does not function.

Doze Speed (div by)**Default: 2/8**

This item determines the processor clock speed when the system is in the power-saving doze mode. It is expressed as a fraction (2/8) of normal full speed.

Standby Speed (div by)**Default: 1/8**

This item determines the processor clock speed when the system is in the power-saving standby mode. It is expressed as a fraction (1/8) of normal full speed.

Modem Use IRQ**Default: 3**

If you would like an incoming call on a fax/modem to automatically resume the system from suspend mode, use this item to specify the interrupt request line (IRQ) that is used by the modem.

HDD Off After**Default: Disabled**

If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 1 to 15 minutes. The hard disk drive will power down if the selected timeout passes without any activity on the hard disk.

Doze Mode**Default: Disabled**

If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 10 seconds to 4 hours. The system will

go into the power-saving doze mode if the selected timeout passes without any system activity.

Standby Mode**Default: Disabled**

If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 10 seconds to 4 hours. The system will go into the power-saving standby mode if the selected timeout passes without any system activity.

Suspend Mode**Default: Disabled**

If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 10 seconds to 4 hours. The system will go into the power-saving suspend mode if the selected timeout passes without any system activity.

HDD Ports Activity**Default: Enabled**

When this item is Enabled, any activity on the hard disk drive will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.

COM Ports Activity**Default: Enabled**

When this item is Enabled, any activity through the serial ports (COM1/3, COM2/4, or an Infrared Port) will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.

LPT Ports Activity**Default: Enabled**

When this item is Enabled, any activity through the parallel port (LPT1) will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.

VGA Activity**Default: Enabled**

When this item is Enabled, any activity on the graphics sub-system will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.

IRQ[3-7, 9-15],NMI**Default: Enabled**

When this item is Enabled, if any activity is detected on the system interrupts (IRQs) and the non-masked interrupt (NMI), the system will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.

IRQ 8 Break Suspend**Default: Disabled**

When this item is enabled, any activity through the system interrupt request line 8 can reset power-saving mode timeouts to zero, or resume the system from a power saving mode. IRQ 8 is normally used by the system realtime clock.

Power Button Over Ride**Default: Instant Off**

This item lets you define if the system power button causes a power off or a power-saving suspend mode.

Resume by Ring**Default: Disabled**

If this item is enabled, it allows the system to resume from a software powerdown whenever there is incoming call to an installed Modem.

Wake Up On PCI PME#**Default: Enabled**

If this item is enabled, it allows the system to enable the LAN Power On Function when you use the PCI Ver 2.2 PCI LAN card.

Resume by LAN**Default: Disabled**

If this item is enabled, it allows the system to resume from a software powerdown whenever there is incoming traffic to an installed Modem.

KB Power ON Function**Default: Power Key**

This item lets you select hot keys or a password as the method of using the keyboard power on feature.

Power Up By Alarm**Default: Disabled**

If you enable this item, you can use the alarm items which appear to install your system with a time and date for an alarm that resumes the system from a power-saving mode.

PNP/PCI Configuration Option

This option displays a table of items that configures how PNP (Plug and Play) and PCI expansion cards operate in your system.

ROM PCI/ISA BIOS (P6SET-ML) PNP/PCI CONFIGURATION AWARD SOFTWARE, INC.	
PNP OS Installed : Yes Resources Controlled By : Auto Reset Configuration Data : Disabled	OnBoard Audio Use IRQ No: 10 Onboard PCI Audio/Modem : Enabled Onboard PCI LAN : Enabled Assign IRQ For VGA : Disabled
ESC : Quit ↑↓←→ : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

PNP OS Installed**Default: Yes**

If you install a Plug and Play operating system such as Windows 95 or 98, you can set this item to Yes. When set to Yes you can use the Device Manager utility in the OS to make changes to the configuration of expansion cards.

Resources Controlled By	Default: Auto
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You should leave this item at the default Auto. If you cannot get an expansion card to work properly, you might be able to solve the problem by changing this item to Manual, and defining the characteristics of the card in the new items which appear. If you change this item to Manual, the display will list a series of items that allow you to define the assignments of the system interrupt lines (IRQs) and Direct Memory Access (DMA) channels. As a default, these items are set to PCI/ISA PnP. If you install an ISA-bus card that does not support PNP, and it requires a special IRQ and DMA, you can modify the list of assignments. Change the values of the IRQ and DMA that are required to Legacy ISA.

Reset Configuration Data	Default: Disabled
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If you enable this item and restart the system, any PNP configuration data stored in the BIOS setup is cleared from memory. New updated data is created.

Onboard Audio Use IRQ No	Default: 10
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Use this item to assign an IRQ to the onboard audio system

Onboard PCI Audio/Modem	Default: Enabled
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Use this item to enable or disable the onboard PCI audio/modem system.

Onboard PCI LAN	Default: Enabled
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Use this item to enable or disable the onboard PCI LAN system.

Assign IRQ for VGA	Default: Disabled
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If this item is enabled, an IRQ will be assigned to the PCI VGA graphics system.

Load BIOS Defaults Option

This option opens dialog box that lets you install BIOS defaults for all appropriate items in the whole setup utility. Press the **Y** key and then **Enter** to install the defaults. Press the **N** key and then **Enter** to not install the defaults. The BIOS defaults place no great demands on the system and are generally stable. If your system is not functioning correctly, try installing the BIOS defaults as a first step in getting your system working properly again. If you only want to install BIOS defaults for a specific option, select and display that option, and then press the **F6** key.

Load Setup Defaults Option

This option opens dialog box that lets you install optimum defaults for all appropriate items in the whole setup utility. Press the **Y** key and then **Enter** to install the defaults. Press the **N** key and then **Enter** to not install the defaults. The setup defaults place demands on the system that may be greater than the performance level of the components, such as the CPU and the memory. You can cause fatal errors or instability if you

install the setup defaults when your hardware does not support them. If you only want to install setup defaults for a specific option, select and display that option, and then press the **F7** key.

Integrated Peripherals Option

This option displays a list of items which defines the operation of some peripheral items on the system's input/output ports.

ROM PCI/ISA BIOS (P6SET-ML) INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.			
Internal PCI/IDE	: Both	ECP Mode Use DMA	: 3
IDE Primary Master PIO	: Auto	PS/2 mouse function	: Enabled
IDE Primary Slave PIO	: Auto	USB Controller	: Enabled
IDE Secondary Master PIO	: Auto	USB Keyboard Support	: Disabled
IDE Secondary Slave PIO	: Auto	Init Display First	:
Primary Master UltraDMA	: Auto	VGA Shared Memory Size	: 8 MB
Primary Slave UltraDMA	: Auto	AC Resume	: Disabled
Secondary Master UltraDMA	: Auto		
Secondary Slave UltraDMA	: Auto	Current CPU Temp.	:
IDE Burst Mode	: Disabled	Current Fan1 Speed	:
IDE 32-bit Transfer Mode	: Disabled	Current Fan2 Speed	:
IDE HDD Block Mode	: Enabled	Analog(V):	
Onboard FDC Controller	: Enabled	I/O(V):	
Onboard Serial Port 1	: 3F8/IRQ4	CPU(V):	
		ESC : Quit	↑↓←→ : Select Item
IR Address Select	: Disabled	F1 : Help	PU/PD/+/- : Modify
		F5 : Old Values	(Shift)F2 : Color
Onboard Parallel Port 1	: 378/IRQ7	F6 : Load BIOS Defaults	
Parallel Port Mode	: ECP+EPP	F7 : Load Setup Defaults	

IDE HDD Block Mode **Default: Enabled**

Block mode transfers can improve the access to IDE devices. Enable this item if your IDE devices support block mode transfers.

IDE Primary Master PIO **Default: Auto**

IDE Primary Slave PIO **Default: Auto**

IDE Secondary Master PIO **Default: Auto**

IDE Secondary Slave PIO **Default: Auto**

Each IDE channel supports a master device and a slave device. These four items let you assign which kind of PIO (Programmed Input/Output) is used by IDE devices. You can choose Auto, to let the system auto detect which PIO mode is best, or you can install a PIO mode from 0-4.

IDE Primary Master UltraDMA	Default: Auto
IDE Primary Slave UltraDMA	Default: Auto
IDE Secondary Master UltraDMA	Default: Auto
IDE Secondary Slave UltraDMA	Default: Auto

Each IDE channel supports a master device and a slave device. This motherboard supports UltraDMA. UltraDMA technology provides faster access to IDE devices. If you install a device which supports UltraDMA, change the appropriate item on this list to Auto. You may have to install the UltraDMA driver supplied with this motherboard in order to use an UltraDMA device.

IDE Burst Mode	Default: Disabled
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Burst mode transfers can improve the access to IDE devices. Enable this item if your IDE devices support burst mode transfers.

IDE 32-Bit Transfer Mode	Default: Disabled
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If this item is enabled, system can simulation 32 bits transfer mode for 16 bits transfer mode OS.

IDE HDD Block Mode	Default: Enabled
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Block mode transfers can improve the access to IDE devices. Enable this item if your IDE devices support block mode transfers.

Onboard FDC Controller	Default: Enabled
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Use this item to turn on or off the floppy disk controller that is built into this mainboard.

Onboard Serial Port 1	Default: 3F8/IRQ4
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This item lets you disable the built-in serial port 1, or enable it by assigning an I/O address and an Interrupt Request Line (IRQ).

IR Address Select	Default: Disabled
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Use this item to assign an address to the IR port if you have installed this optional item.

Onboard Parallel Port 1	Default: 378/IRQ7
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This item lets you disable the built-in parallel port, or enable it by assigning an I/O address and an Interrupt Request Line (IRQ).

Parallel Port Mode	Default: ECP+EPP
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This item defines the operation of the parallel port. It can be set to SPP (standard parallel port). If you are connected to a parallel device that supports the higher-performance EPP (enhanced parallel port) or the ECP (extended capabilities port) make the appropriate changes to this item.

ECP Mode Use DMA	Default: 3
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If you are using the parallel port as an ECP (extended capabilities port), use this item to assign a DMA channel to the port.

PS/2 mouse function	Default: Enabled
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Use this item to enable or disable the built-in PS/2 mouse port. If you are using a serial port mouse, you can conserve system resources by disabling the PS/2 mouse port.

USB Controller**Default: Enabled**

Use this item to enable or disable the built-in Universal Serial Bus ports. If you are not using any USB devices, you can conserve system resources by disabling the USB ports.

USB Keyboard Support**Default: Disabled**

Enable this item if you plan on using a keyboard which operates through the USB port.

Init Display First**Default: PCI Slot**

Use this item to define if your graphics adapter is installed in one of the PCI slots.

VGA Shared Memory Size**Default: 8 MB**

Use this item to set the amount of memory that can be used by the onboard VGA system. We recommend that you leave this at the default value 8 MB.

AC Resume**Default: Disabled**

If this item is enabled, system will automatic power on when power come back after power lost .

Current CPU Temp., Current System Temp., etc.

If you are using the hardware monitoring features of this system, you can use these items to set thermal and electrical parameters for the system.

Password Setting

This item can be used to install a password. To install a password, follow these steps:

1. Highlight the item Password Settings on the main menu and press **Enter**.
2. The password dialog box appears.
3. If you are installing a new password, carefully type in the password. You cannot use more than 8 characters or numbers. The password will differentiate between upper case and lower characters. Press **Enter** after you have typed in the password. If you are deleting a password that is already installed just press **Enter** when the password dialog box appears.
4. The system will ask you to confirm the new password by asking you to type it in a second time. Carefully type the password again and press **Enter**, or just press **Enter** if you are deleting a password that is already installed.
5. If you typed the password correctly, the password will be installed.

IDE HDD Auto Detection Option

This item automatically detects and installs any hard disk drives installed on the primary and secondary IDE channel. Most modern drives can be detected. If you are using a very old drive that can't be detected, you can install it manually using the Standard CMOS Setup option.

Setup will check for two devices on the primary IDE channel and then two devices on the secondary IDE channel. At each device, the system will flash an N in the dialog box. Press **Enter** to skip the device and proceed to the next device. Press **Y**, then **Enter** to tell the system to auto-detect the device.

Save And Exit Setup Option

Highlight this item and press **Enter** to save the changes that you have made in the setup utility and exit the setup program. When the Save and Exit dialog box appears, press **Y** to save and exit, or press **N** to return to the setup main menu.

Exit Without Saving Option

Highlight this item and press **Enter** to discard any changes that you have made in the setup utility and exit the setup program. When the Exit Without Saving dialog box appears, press **Y** to discard changes and exit, or press **N** to return to the setup main menu.