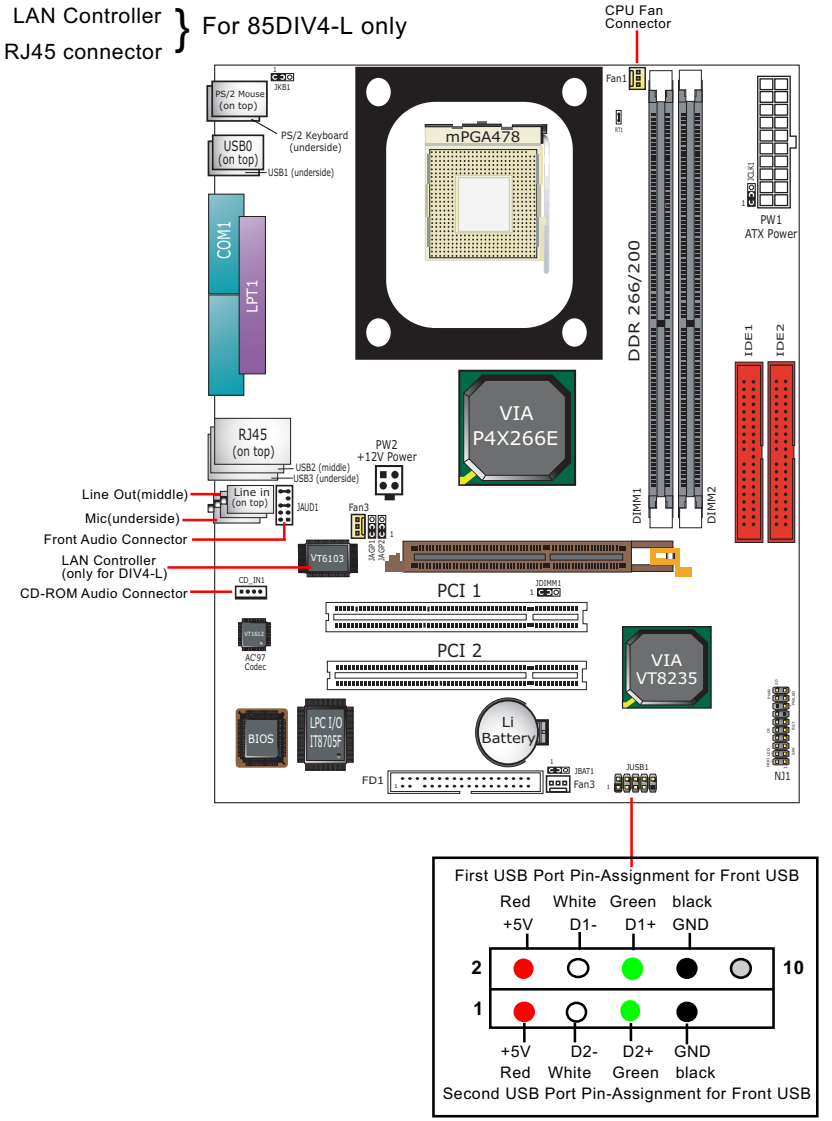
Chapter 1 Specification

1-1 Mainboard Layout and Components Setup

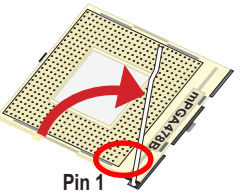


1-2 Mainboard Specification Table

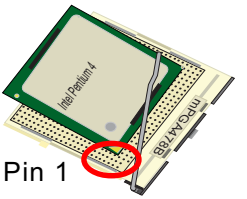
SL-85DIV4 / 85DIV4-L Specifications and Features		
CPU	Socket 478B for Intel P4 CPUs up to 3.06GHz	
North Bridge	VIA Apollo P4X266E, 533/400Mhz FSB	
South Bridge	VIA VT8235	
BIOS	AMI BIOS	
Memory	Supporting DDR 266/200 SDRAM, up to 2GB in 2 DDR DIMM slots	
I/O Chip	ITE IT8705F	
AGP interface	AGP4X / 2X Mode; 1 AGP Slot on board	
Audio	AC'97 Audio Codec, 2-channel audio	
IDE Interface	2 UATA 33/66/100/133 IDE ports	
Networking	Fast Ethernet Controller, RJ45 on board (Optional)	
PCI Slots	2 PCI Master slots on board	
I/O Connectors	6xUSB ports (V2.0), 1xFDD port, 1xCOM port, 1xLPT, 1xIrDA, 1xPS/2 K/B, 1xPS/2 Mouse	
VGA Display	Not integrated on board	
Other Features	MicroATX Form Factor, 195mm x 245mm Keyboard/Mouse Power On/Wake up	
Models / Optional Features	85DIV4	85DIV4-L
LAN Controller on board	No	Yes

1-3 Pentium 4 CPU Installation

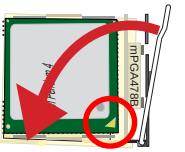
1. First pull sideways the lever of Socket 478, and then turn it up 90^0 so as to raise the upper layer of the socket from the lower platform.



2. Configure Pin 1 of CPU to Pin 1 of the Socket, just as the way shown in the diagram on the right. Adjust the position of CPU until you can feel all CPU pins get into the socket with ease.

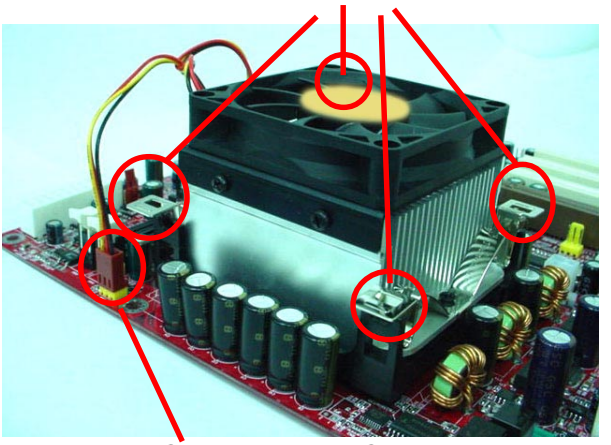


3. Make sure that all CPU pins have completely entered the socket and then lower down the lever to lock up CPU to socket.



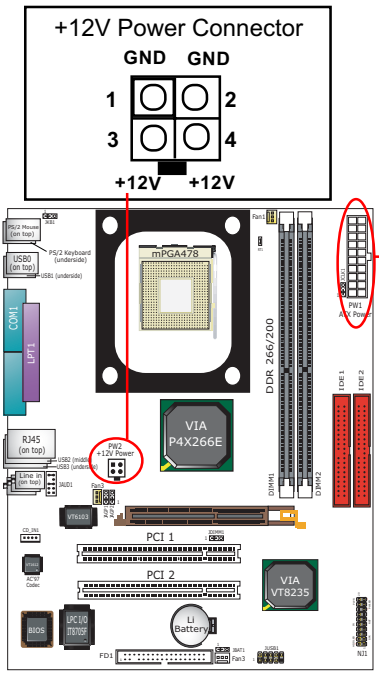
1-4 Pentium 4 CPU Fan Installation

Press down 4 corners to lock fan to fanbase



Connect Fan Connector to CPU FAN connector

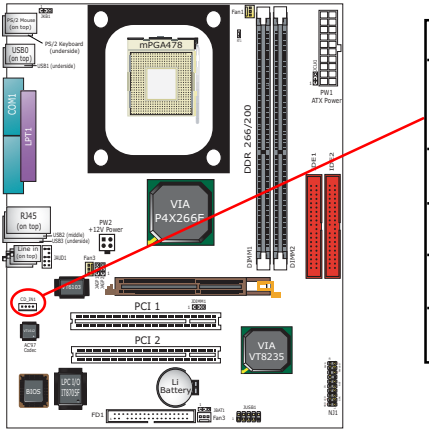
1-5 ATX V 2.03 Power Supply Installation



Warning: Both the Main Power Connector and the +12V Power Connector should be connected to Power Supply; otherwise, the system may either not start or be damaged.

1-6 CD-ROM Audio Connectors

CD_IN1 is an audio connector connecting CD-ROM audio to mainboard.



CD-ROM Audio Connector	
CD_IN1 ●●●■ 1	Pin Signal
Pin 1	Left Channel
Pin 2	GND
Pin 3	GND
Pin 4	Right Channel

1-7 Jumper Settings

The following diagrams show the locations and settings of jumper blocks on the mainboard.

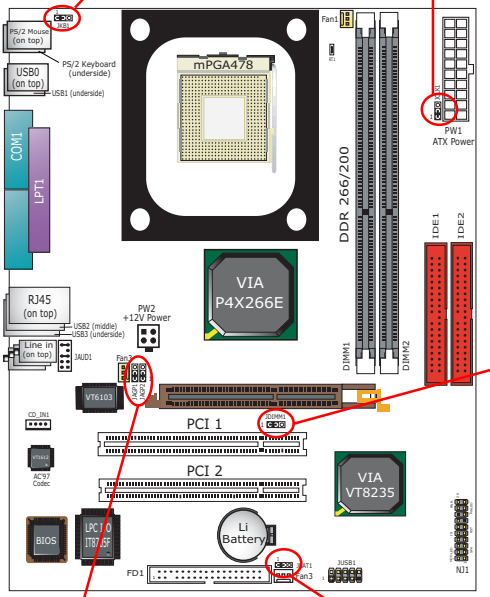
JKB1:
Keyboard/Mouse Power On / Wake Up

1 **1-2 closed (default)** Enabled

1 **2-3 closed** Disabled

JCLK1:
CPU Frequency Select

(default) CPU Auto-Detection	100MHz (FSB400)	133MHz (FSB533)
JCLK1 (1-2 closed)	JCLK1 (2-3 closed)	JCLK1 (2-3 closed)



JDIMM1
DIMM Voltage Select

1 **1-2 closed (default)** 2.5V

1 **2-3 closed** 2.6V

JAGP1 & JAGP2:
AGP Voltage Select

(default) 1.5V	1.6V	1.7V
JAGP1 JAGP2 (1 1)	JAGP1 JAGP2 (1 1)	JAGP1 JAGP2 (1 1)

JBAT1
Clear CMOS

1 **1-2 closed (default)** To hold data

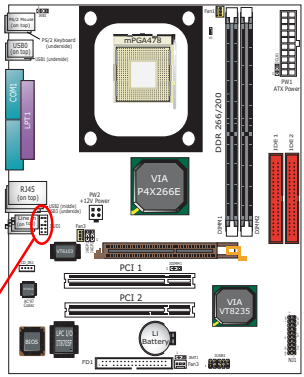
1 **2-3 closed** To clear CMOS

1-8 Other Connectors Setup

1-8.1 Front Panel Audio Connector

This Mainboard is designed with a Front Panel Audio connector "JAUD1" which provides connection to your chassis.

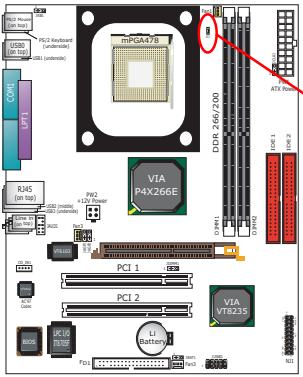
1. When JAUD1 is set to 5-6 closed and 9-10 closed, this default setting disables this connector and leaves the Back Panel Audio enabled.
2. To use this Front Panel Audio Connector, please open all pins of JAUD1 and connect it to your chassis.



JAUD1: Front Panel Audio Connector

Pin 10 RET L		Pin 9 FPOUT L
		Pin 7 (Key)
Pin 6 RET R		Pin 5 FPOUT R
Pin 4 Aud Vcc		Pin 3 Mic VREF
Pin 2 Aud GND		Pin 1 Mic In

1-8.2 Thermal Detector

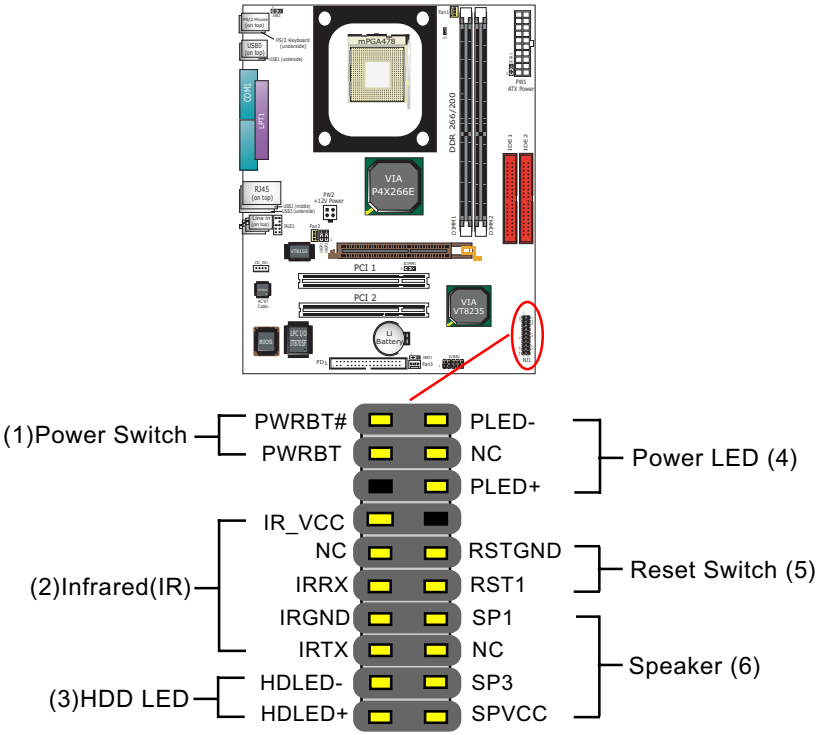


RT1

RT1 is mounted with Thermal Detector by default for detecting the system temperature.

Detector RT1: A thermal detector is mounted by default to connector RT1 so as to detect the system temperature . What RT1 does is to transmit the thermal signal to Hardware Monitor.

1-8.3 Complex Header (Front Panel Connectors)



(1) Power Switch Connector:

Connection**:** Connected to a momentary button or switch.

(2) IR Connector (Infrared Connector):

Connection: Connected to Connector IR on board.

(3) HDD LED Connector:

Connection: Connected to HDD LED.

(4) Power LED Connector:

Connection: Connected to System Power LED.

(5) Reset Switch Connector:

Connection: Connected to case-mounted “Reset Switch”.

(6) Speaker Connector:

Connection: Connected to the case-mounted Speaker.

SL-85DIV4 / 85DIV4-L Quick Installation Guide

Brochage composite Gesamtübersicht Conector de dispositivos Conectores em Pinos
設備連接埠 複合ヘッダ 다목적 콘넥터 التوصيلات الداخلية

1
Interruptor de Força
Interruptor de Energía
System ein/aus Schalter
パワースイッチ
Connecteur du Switch Power On
電源開關
전원 스위치 연결
مفتاح الطاقة الكهربائية

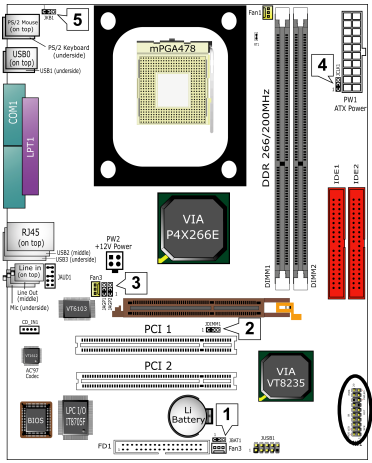
3
HDD LED
HDD LED
HDD LED
HDD LED
Connecteur du témoin d'activité du disque dur
硬碟指示燈
하드 드라이브 LED 연결
مؤشر ضوئي للقرص الصلب الأول

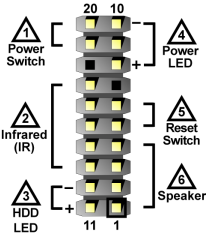
5
Interruptor de Reset
Interruptor de Reset
Neustart Schalter
リセットスイッチ
Connecteur du bouton Reset
系統重設接頭
리셋 스위치 연결
مفتاح إعادة التشغيل

2
Infravermelho (IR)
Conector de infrarrojos
Infrarot
赤外線 (IR)
Connecteur IR (Infrarouge)
紅外線連接頭
자외선 콘넥터(IR) 연결
أشعة تحت الحمراء

4
LED de Força
LED de Energía
Betriebsanzeige
電源 LED
Connecteur du témoin d'alimentation
電源指示燈
전원 LED 연결
مؤشر الطاقة الكهربائية الضوئي

6
Alto-falante
Altavoz
Lautsprecher
スピーカー
Connecteur du haut-parleur
喇叭接頭
스피커 연결
السماعات





Réglage des cavaliers Jumper-Einstellungen Configuración de Jumper Configuração de Jumper
跳線設定 ジャンパーセッティング 점퍼 세팅 إعدادات الجامبر

Effacement du CMOS JBAT1 1-2 Conservation des données (par défaut) 2-3 Effacement du CMOS	*Limpar dados do CMOS* JBAT1 1-2 Reter Dados (Padrão) 2-3 Limpar dados do CMOS	**CMOS データを消却** **JBAT1** **1-2 データを記憶する (デフォールト)** **2-3 CMOS データを消却**
CMOS Daten löschen JBAT1 1-2 Daten erhalten (Standard) 2-3 CMOS Daten löschen	**1** JBAT1 **Clear CMOS** 1 1 1-2 To hold data (default) 2-3 To clear CMOS	**CMOS 데이타 삭제** **JBAT1** **1-2 원래값 유지 (기본값)** **2-3 현재 CMOS 데이타 삭제**
Borrar el CMOS JBAT1 1-2 Retener Dados (por defecto) 2-3 Borrar el CMOS	**清除 CMOS 功能** **JBAT1** **1-2 記憶資料 (預設值)** **2-3 清除 CMOS 功能**	استعادة الوضع الافتراضي لنظام الدخل والخرج الأساسي JBAT1 2-1 = وضع الحفاظ على المعلومات (افتراضي) 3-2 = استعادة الوضع الافتراضي للمصنع

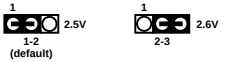
Sélection du voltage DIMM
JDIMM1
1-2=2.5V (par défaut)
2-3=2.6V

Seleção de Voltagem dos Módulos de Memória
JDIMM1
1-2=2.5V (Padão)
2-3=2.6V

メモリモジュール電圧セレクト
JDIMM1
1-2=2.5V （デフォルト）
2-3=2.6V

Spannungs-Einstellung Speichermodule
JDIMM1
1-2=2.5V (Standard)
2-3=2.6V

2 JDIMM1 **DIMM Voltage Select**



메모리 모듈 전압 선택
JDIMM1
1-2=2.5V（기본값）
2-3=2.6V

Configuración de Voltaje de Módulo de Memoria
JDIMM1
1-2=2.5V (por defecto)
2-3=2.6V

記憶體電壓設定
JDIMM1
1-2=2.5V（預設值）
2-3=2.6V

ضبط الجهد الخاص بالذاكرة
JDIMM1
(افتراضي) 2.5V = 2-1
2.6V = 3-2

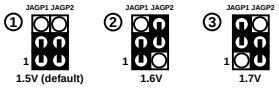
Sélection du voltage AGP
JAGP1 & JAGP2
①1.5V (par défaut)
②1.6V
③1.7V

Seleção de Voltagem do AGP
JAGP1 & JAGP2
①1.5V (Padão)
②1.6V
③1.7V

AGP 電圧セレクト
JAGP1 & JAGP2
① 1.5V（デフォルト）
② 1.6V
③ 1.7V

AGP Spannungs-Einstellung
JAGP1 & JAGP2
①1.5V (Standard)
②1.6V
③1.7V

3 JAGP1 & JAGP2 **AGP Voltage Select**



AGP 전압 선택
JAGP1 & JAGP2
① 1.5V（기본값）
② 1.6V
③ 1.7V

Selección de Voltaje de AGP
JAGP1 & JAGP2
①1.5V (por defecto)
②1.6V
③1.7V

AGP 電壓設定
JAGP1 & JAGP2
① 1.5V (預設值)
② 1.6V
③ 1.7V

ضبط الجهد الخاص بسرعة مخرج بطاقة الإظهار AGP
JAGP1, JAGP2
(افتراضي) 1.5V ①
1.6V ②
1.7V ③

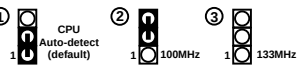
Sélection de la fréquence du CPU
JCLK1
①Autodétection du CPU (par défaut)
②Pour une fréquence CPU de 100MHz
③Pour une fréquence CPU de 133MHz

Seleção de Clock do CPU
JCLK1
①Detecção automática do CPU (Padão)
②Para 100MHz de Clock do CPU
③Para 133MHz de Clock do CPU

CPU クロック設定
JCLK1
① は CPU 自動検出設定用（デフォルト）
② は 100MHz 使用時の設定
③ は 133MHz 使用時の設定

CPU Clock Einstellungen
JCLK1
①CPU Autodetect (Standard)
②Fur 100MHz CPU Clock
③Fur 133MHz CPU Clock

4 JCLK1 **CPU Frequency Select**



CPU 클럭 선택법
JCLK1
① CPU 클락 자동 선택（기본값）
② 100MHz CPU 클럭 선택
③ 133MHz CPU 클럭 선택

Selección de Clock del CPU
JCLK1
①CPU Autodetect (por defecto)
②Para 100MHz CPU Clock
③Para 133MHz CPU Clock

CPU 頻率設定
JCLK1
① CPU 自動偵測（預設值）
② 選擇 100MHz CPU 頻率
③ 選擇 133MHz CPU 頻率

وضعيات الوصلة JCLK1
لاختيار سرعة تردد ناقل المعالج
① اختيار تلقائي للسرعة (افتراضي)
② للسرعة 100 MHz للناقل
③ للسرعة 133 MHz للناقل

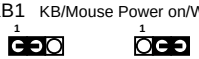
Allumage / Réveil par Clavier /Souris
JKB1
1-2=Activée (par défaut)
2-3=Mis hors service

Ligar no Teclado/Rato de arranque / acordar
JKB1
1-2=Habilitado (Padrão)
2-3=Desabilitado

キーボード / マウス力の電源を入れること / ウェクーウプ
JKB1
1-2= 設定有効（デフォルト）
2-3= 設定無効にする

Tastatur / Maus Energie ein /Aufwachen
JKB1
1-2=Aktiviert (Standard)
2-3=Deaktiviert

5 JKB1 KB/Mouse Power on/Wake up



키보드 / 마우스 전원 - 온 / 절전모드에서 해제
JKB1
1-2= 사용가능（기본값）
2-3= 사용금지

Teclado/Ratón de Energía /Wakeup
JKB1
1-2=Activado (por defecto)
2-3=Desactivado

鍵盤 / 滑鼠 開機 / 喚醒 功能
JKB1
1-2 = 開啓功能(預設值)
2-3 = 關閉功能

لوحة المفاتيح / فأرة التشغيل / الwake-up (الاستيقاظ)
JKB1
2-1 مفعل (افتراضي)
3-2 غير مفعل

Chapter 3 AMI BIOS Setup

3-1 To Update BIOS

- "AMIFLASH.EXE" is a Flash EPROM Programming utility that updates the BIOS by uploading a new BIOS file to the programmable flash ROM on the mainboard. This program only works in ***DOS environment, the utility can not be executed in Windows 95/98, ME, NT, 2000 or Windows XP environment.***

• Please follow the steps below for updating the system BIOS:

Step 1. Please visit the board maker's website, download latest BIOS file and AMI update utility. The file name of AMI update utility will be "AMIXXX.EXE" of which " XXX " stands for the version number of the file. The BIOS file format will be *.ROM, of which " * " stands for the specific BIOS file name.

Step 2. Create a bootable diskette. Then copy the BIOS file and AMI flash utility "AMIXXX.EXE" into the diskette.

Step 3. Insert the diskette into drive A, boot your system from the diskette.

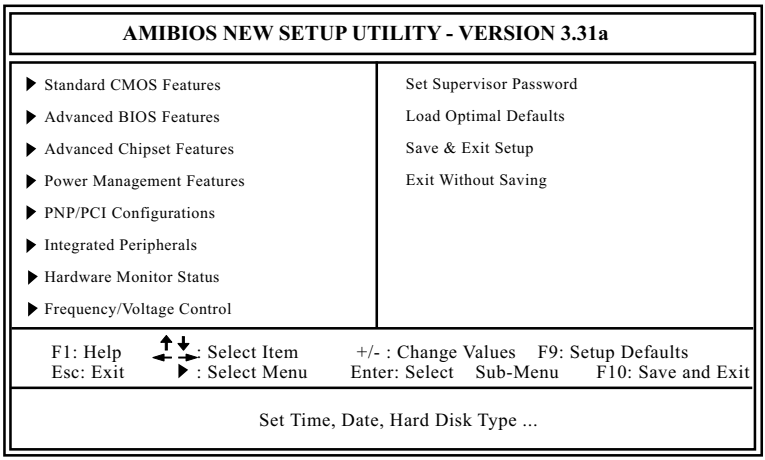
Step 4. Under " A " prompt, type **" AMIXXX.EXE *.ROM "** and then press <Enter> to run BIOS update program. Please note that there should be a space between AMIXXX.EXE and *.ROM. (*.ROM depends on your mainboard model and version code. Instead of typing "*", you should type the specific file name for your specific mainboard).

Step 5. When the message "Flash ROM Update Completed - Pass." appears, please restart your system.

Step 6. You will see a message "CMOS Memory Size Wrong" during booting the system. Press <Del> or <F1> to run CMOS setup utility, then reload "LOAD SETUP DEFAULTS" or **"Load Optimal Defaults"** and save this change.

3-2 BIOS SETUP by CMOS Setup Utility

1. Power on your system.
2. At the initial screen, enter CMOS Setup Utility by pressing < Del > key before POST(Power on Self Test) is complete and the main program screen will appear as follows.



3. Use the arrow keys on your keyboard to select an option, and press <Enter>. Modify the system parameters to reflect the options installed in your system.
4. You may return to the Main Menu anytime by pressing <Esc>.
5. In the Main Menu, “Save Changes and Exit” saves your changes and reboots the system, and “Discard Changes and Exit” ignores your changes and exits the program.

- Standard CMOS Features(Times, Date, Hard Disk Type etc.)
- Advanced BIOS Features (Virus Protection, Boot Sequence etc.)
- Advanced Chipset Features (AT Clock, DRAM Timing etc.)
- Power Management Features (Sleep Timer, Suspend Timer etc.)
- PNP/PCI Configurations (IRQ Settings, Latency Timers etc.)
- Integrated Peripherals (Onboard I/O, IRQ, DMA Assign. etc.)
- Hardware Monitor Status (CPU/System Temp., Fan speed etc.)
- Frequency/Voltage (CPU clock, Voltage of CPU, DIMM, AGP etc.)
- Set Supervisor Password (Specifies The User Password)
- Load Optimal Defaults (Loads Optimal Values for All The Setup Options)
- Save & Exit Setup (Saves Data to CMOS RAM)
- Exit Without Saving (Abandon All Data)