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HP Pavilion 63xx Desktop PCs - Motherboard Switch and Jumper Settings

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Introduction

Jumper settings

Introduction

This document provides technical information about the motherboard jumper settings for the following Pavilion models: 6329, 6330, 6336, 6350, 6360. 6306, 6329H, 6345, and 6355 (UK).

NOTE: This document contains technical procedures. Ideally, the person performing the steps in this document should have experience working with computer hardware.

Jumper settings

AMD K6 Proc.	CPU Bus Freq. ratio	Default 66 MHz CPU Bus freq.	Default 2.2V CPU Vcore	Other Default settings
AMD K6-2 300 MHz (Vcore=2.2V)	BF0=2-3 BF1=2-3 BF2=2-3	FS0=2-3 FS1=1-2 FS2=2-3 FS3=1-2	VID0=1-2 VID1=2-3 VID2=1-2 VID3=1-2	VGA_SEL=2-3 INT_SEL=2-3 RTCLR=1-2
AMD K6-2 333 MHz (Vcore=2.2V)	BF0=1-2 BF1=2-3 BF2=2-3	FS0=2-3 FS1=1-2 FS2=2-3 FS3=1-2	VID0=1-2 VID1=2-3 VID2=1-2 VID3=1-2	VGA_SEL=2-3 INT_SEL=2-3 RTCLR=1-2
AMD K6-2 366 MHz (Vcore=2.2V)	BF0=1-2 BF1=1-2 BF2=2-3	FS0=2-3 FS1=1-2 FS2=2-3 FS3=1-2	VID0=1-2 VID1=2-3 VID2=1-2 VID3=1-2	VGA_SEL=2-3 INT_SEL=2-3 RTCLR=1-2

CPU to BUS frequency ratio (BF0, BF1, BF2)

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These jumpers set the frequency ratio between the internal frequency of the computer's central processing unit (CPU) and the external frequency (called the BUS Clock) within the CPU. These jumpers must be set together with the above jumpers CPU External (BUS) Frequency Selection.

CPU external (BUS) frequency selection (FS, FS1, FS2, FS3)

These jumpers tell the clock generator what frequency to send to the CPU and allow the selection of the CPU's external frequency (or BUS clock). The BUS Clock times the BUS ratio equals the CPU's internal frequency (the advertised CPU speed).

Voltage regulator output selection (VIDO, 1,2,3)

These jumpers set the voltage supplied to the CPU.

VGA interrupt selection (INT_SEL) and VGA setting (VGA_SEL)

The INT_SEL jumper allows you to set the VGA Interrupt method. The default disables the chipset's internal interrupt routing. Some TV-Tuner or MPEG cards may require that the interrupt be assigned by the onboard chipset, in which case enable INT_SEL. The VGA_SEL jumper allows you to enable or disable the onboard VGA. Disable the onboard VGA if you are using a VGA card on the expansion slot.

Figure 1: VGA interrupt selection and VGA setting

example

Real Time Clock (RTC) RAM (RTCLR)

The onboard button cell battery powers the CMOS RAM. To clear the Real Time Clock (RTC) data:

1. Turn off the HP Pavilion PC and remove the AC power.
2. Move this jumper to "Clear Data."
3. Move the jumper back to "Operation."
4. Turn on the HP Pavilion PC.
5. Press the `F1` key while the computer is starting up, and then enter BIOS Setup to re-enter the user password.

   Figure 2: RTC settings

   example

Battery test jumper (RTCLR)

You can test the battery's current by removing this jumper and attaching a current meter to the "Operation" pins.

CAUTION: The CMOS RAM containing BIOS setup information is cleared by this action. To ensure that there is no power to the motherboard, you must unplug the power cord to the power supply. You should enter the BIOS and "Load Setup Defaults", then re-enter any user information after using the battery test jumper.

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