

## 5. CPU External (BUS) Frequency Selection (FS3, FS2, FS1, FS0)

These jumpers tell the clock generator what frequency to send to the CPU, chipset, and AGP. These 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).

## 6. CPU to BUS Frequency Multiple (BF0, BF1, BF2)

These jumpers set the frequency ratio between the *Internal* frequency of the CPU and the *External* frequency (called the *BUS Clock*) within the CPU. These must be set in conjunction with the jumpers for *CPU External (BUS) Frequency Selection*.

**CPU External Clock (BUS) Frequency Selection**

Device	FS3	FS2	FS1	FS0
CPU	60MHz	66.8MHz	75MHz	75MHz
AGP	60MHz	66.8MHz	75MHz	60MHz
PCI	30MHz	33.4MHz	37.5MHz	30MHz

  

Device	FS3	FS2	FS1	FS0
CPU	83.3MHz	95MHz	100MHz	105MHz
AGP	66.6MHz	63.3MHz	66.6MHz	70MHz
PCI	33.3MHz	31.6MHz	33.3MHz	35MHz

  

Device	FS3	FS2	FS1	FS0
CPU	110MHz	115MHz	120MHz	—
AGP	73MHz	77.6MHz	80MHz	—
PCI	36.6MHz	38.3MHz	40MHz	—

  

**CPU : BUS Frequency Multiple**

Device	BF0	BF1	BF2
CPU A	3.5x(7/2)	2.0x(2/1)	2.5x(5/2)
CPU B	1.5x(3/2)	2.0x(2/1)	2.5x(5/2)
CPU C	3.5x(7/2)	2.0x(2/1)	2.5x(5/2)
CPU D	3.0x(3/1)	2.0x(2/1)	1.0x(1/1)
CPU E	3.5x(7/2)	3.33x(10/3)	2.5x(5/2)

  

Device	BF0	BF1	BF2
CPU A	4.0x(4/1)	4.5x(9/2)	5.0x(5/1)
CPU B	—	—	—
CPU C	—	—	—
CPU D	—	—	—
CPU E	4.0x(4/1)	4.5x(9/2)	2.33x(7/3)

**Legend:**  
 CPU A: AMD-K6-2, AMD-K6  
 CPU B: Intel Pentium P54C, AMD-K5  
 CPU C: Intel Pentium P55C, IBM/Cyrix 6x86MX, IBM/Cyrix M II  
 CPU D: IBM/Cyrix 6x86, IBM/Cyrix 6x86L  
 CPU E: IDT WinChip 2™

**WARNING!** Frequencies above 100MHz exceed the specifications for the on-board chipset and are not guaranteed to be stable. The table on the following page is for general reference purposes only. Always refer to the instructions included with your CPU when possible.

Set the jumpers by the Internal speed of the Intel, AMD, IBM, or Cyrix CPU as follows:

CPU Model	Freq.	Mult.	(BUS Freq.)				(Freq. Mult.)			
			BUS F	FS3	FS2	FS1	FS0	BF0	BF1	BF2
AMD-K6-2/350	350MHz	A-3.5x	100MHz	[2-3]	[1-2]	[1-2]	[1-2]	[1-2]	[1-2]	[----]
AMD-K6-2/333	333MHz	A-3.5x	95MHz	[2-3]	[1-2]	[1-2]	[2-3]	[1-2]	[1-2]	[----]
AMD-K6-2/300	300MHz	A-3.0x	100MHz	[2-3]	[1-2]	[1-2]	[1-2]	[1-2]	[2-3]	[----]
AMD-K6-2/266	266MHz	A-4.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[1-2]	[2-3]
AMD-K6/300	300MHz	A-4.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[2-3]	[2-3]
AMD-K6/266	266MHz	A-4.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[1-2]	[2-3]
AMD-K6/233	233MHz	A-3.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[----]
AMD-K6/200	200MHz	A-3.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[2-3]	[----]
AMD-K6/166	166MHz	A-2.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[2-3]	[----]
AMD-K5/133	100MHz	B-1.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[----]
AMD-K5/120	90MHz	B-1.5x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[----]
AMD-K5/100	100MHz	B-1.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[----]
AMD-K5/90	90MHz	B-1.5x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[----]
Intel Pentium P54C	166MHz	B-2.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[2-3]	[----]
Intel Pentium P54C	150MHz	B-2.5x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[2-3]	[2-3]	[----]
Intel Pentium P54C	133MHz	B-2.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[1-2]	[----]
Intel Pentium P54C	120MHz	B-2.0x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[2-3]	[1-2]	[----]
Intel Pentium P54C	100MHz	B-1.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[----]
Intel Pentium P54C	90MHz	B-1.5x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[----]
Intel Pentium P55C	233MHz	C-3.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[----]
Intel Pentium P55C	200MHz	C-3.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[2-3]	[----]
Intel Pentium P55C	166MHz	C-2.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[2-3]	[----]
IBM/Cyrix M II-PR333	333MHz	C-3.0x	83MHz	[2-3]	[1-2]	[2-3]	[1-2]	[1-2]	[2-3]	[----]
IBM/Cyrix M II-PR300	300MHz	C-3.0x	75MHz	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[2-3]	[----]
IBM/Cyrix M II-PR300	300MHz	C-3.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[1-2]	[----]
IBM/Cyrix 6x86MX-PR233	200MHz	C-3.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[1-2]	[2-3]	[----]
IBM/Cyrix 6x86MX-PR200	166MHz	C-2.5x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[2-3]	[----]
IBM/Cyrix 6x86MX-PR166	150MHz	C-2.5x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[2-3]	[2-3]	[----]
*IBM/Cyrix 6x86-PR166+	133MHz	D-2.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[1-2]	[----]
*IBM/Cyrix 6x86L-PR166+	133MHz	D-2.0x	66MHz	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]	[1-2]	[----]
IDT WinChip 2™	240MHz	E-4.0x	60MHz	[2-3]	[2-3]	[2-3]	[2-3]	[2-3]	[1-2]	[2-3]

**III. INSTALLATION**  
Jumpers

\*NOTE: The only IBM or Cyrix 6x86(L) (or M I) that is supported on this motherboard is revision 2.7 or later (see next page).