

Address and Interrupt Tables

C.1 System Memory Map

Address Range	Definition	Function
000000 - 09FFFF	640 KB memory	Base memory
0A0000 - 0BFFFF	128 KB video RAM	Reserved for graphics display buffer
0C0000 - 0AFFFF	256 KB system ROM	Video BIOS and System Services
0E0000 - 0EFFFF		POST when power-on PMU for SMI Free for runtime
0F0000 - 0FFFFF		System BIOS
100000 - 7FFFFFFF	Extended memory 7 MB	Onboard memory 8 MB

C.2 I/O Address Map

Address Range	Device
000 - 00F	DMA controller-1
020 - 021	Interrupt controller-1
040 - 043	Timer 1
048 - 04B	Timer 2
060 - 06E	Keyboard controller 8742 chip select
070 - 071	Real-time clock and NMI mask
080 - 08F	DMA page register
0A0 - 0A1	Interrupt controller-2
0C0 - 0DF	DMA controller-2
178, 17A	6377 registers
1F0 - 1F7, 3F6 - 3F7	Hard disk controller
278 - 27F	Parallel port 2
2F8 - 2FF	Serial port 2
35F, 36F	Special I/O ports
378, 37A	Parallel port 1
3B4, 3B5, 3BA	Video subsystem
3C0 - 3C5	Video DAC
3C6 - 3C9	Enhanced graphics display
3C0 - 3CF	Color graphics adapter
3D0 - 3DF	PCMCIA controller
3E0 - 3E1	Floppy disk controller
3F0 - 3F7	Serial port 1
3F8 - 3FF	

C.3 Interrupt Levels

Priority	Interrupt Number	Interrupt Source
1	SMI	Power management unit
2	NMI	Parity error detected, I/O channel error
3	IRQ 0	Interval timer, counter 0 output
4	IRQ 1	Keyboard
	IRQ 2	Interrupt from controller 2 (cascade)
5	IRQ 8	Real-time clock
6	IRQ 9	Cascaded to INT 0AH (IRQ 2)
7	IRQ 10	Reserved
8	IRQ 11	Reserved
9	IRQ 12	PS/2 mouse
10	IRQ 13	INT from coprocessor
11	IRQ 14	Hard disk controller
12	IRQ 15	Reserved
13	IRQ 3	Serial communication port 2
14	IRQ 4	Serial communication port 1
15	IRQ 5	Reserved
16	IRQ 6	Diskette controller
17	IRQ 7	Parallel port



A PCMCIA card can use IRQ 3, 4, 5, 7, 9 and 11 as long as it does not conflict with the interrupt address of any other device.

C.4 DMA Channels

Channel	Page Register	Function	Width
0	87h	Spare	8-Bit
1	83h	Spare	8-Bit
2	81h	Diskette	8-Bit
3	82h	Spare	8-Bit
4	Cascade	Cascade	-
5	8Bh	Spare	16-Bit
6	89h	Spare	16-Bit
7	8Ah	Spare	16-Bit