

## Address and Interrupt Tables

### B.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 - 0CBFFF	Video BIOS	Video BIOS
0E0000 - 0EFFFF	128 KB system BIOS	System BIOS
0F0000 - 0FFFFFFF		System BIOS
10000 - 7FFFF	Extended memory	Onboard memory
80000 - 27FFF		SIMM memory
FE0000 - FFFFFFFF	256 KB system ROM	Duplicate of code assignment at 0E0000-0FFFFFFF

## B.2 I/O Address Map

Address Range	Device
000 - 00F	DMA controller-1
020 - 021	Interrupt controller-1
022 - 023	M1523 registers
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	Hard disk select
3F6, 3F7	
220 - 22F	Audio (option)
240 - 24F	Audio (option) - default
260 - 26F	Audio (option)
280 - 28F	Audio (option)
278 - 27F	Parallel port 3
2E8 - 2EF	COM 4
2F8 - 2FF	COM 2
34C-34F	Docking station
378, 37A	Parallel port 2
3BC - 3BE	Parallel port 1
3B4, 3B5, 3BA	Video subsystem
3C0 - 3C5	
3C6 - 3C9	Video DAC
3C0 - 3CF	Enhanced graphics display
3D0 - 3DF	Color graphics adapter
3E0 - 3E1	PCMCIA controller
3E8 - 3EF	COM3
3F0 - 3F7	Floppy disk controller
3F8 - 3FF	COM 1
CF8 - CFF	PCI configuration register

## B.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	Audio (option) / PCMCIA
8	IRQ 11	Audio (option) / PCMCIA
9	IRQ 12	PS/2 mouse
10	IRQ 13	INT from coprocessor
11	IRQ 14	Hard disk controller / CD-ROM controller
12	IRQ 15	Docking
13	IRQ 3	Serial communication port 2
14	IRQ 4	Serial communication port 1
15	IRQ 5	Parallel port (option)
16	IRQ 6	Diskette controller
17	IRQ 7	Parallel port (option)



*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.*

# B.4 DMA Channels

Controller	Channel	Address	Function
1	0	0087	Spare
1	1	0083	Audio (option)
1	2	0081	Diskette
1	3	0082	Audio (option)
2	4	Cascade	Cascade
2	5	008B	Audio (option)
2	6	0089	Spare
2	7	008A	Audio (option)