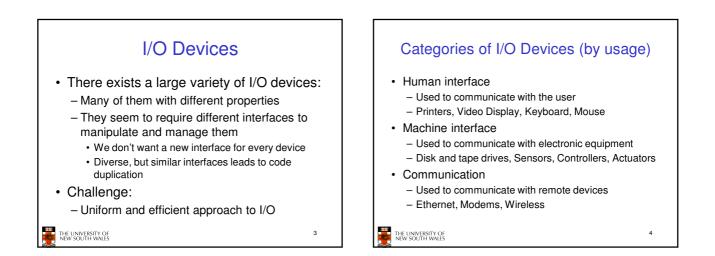
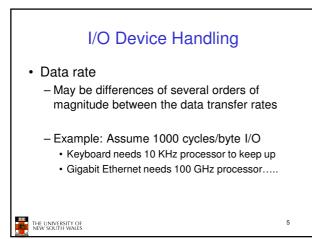


Learning Outcomes A high-level understanding of the properties of a variety of I/O devices. An understanding of methods of interacting with I/O devices. An appreciation of the trend towards offloading more I/O handling to devices themselves.

THE UNIVERSITY OF NEW SOUTH WALES







Device	Data rate	7
Keyboard	10 bytes/sec	
Mouse	100 bytes/sec	
56K modem	7 KB/sec	
Telephone channel	8 KB/sec	
Dual ISDN lines	16 KB/sec	
Laser printer	100 KB/sec	7
Scanner	400 KB/sec	7
Classic Ethernet	1.25 MB/sec	
USB (Universal Serial Bus)	1.5 MB/sec	
Digital camcorder	4 MB/sec	
IDE disk	5 MB/sec	
40x CD-ROM	6 MB/sec	
Fast Ethernet	12.5 MB/sec	
ISA bus	16.7 MB/sec	
EIDE (ATA-2) disk	16.7 MB/sec	
FireWire (IEEE 1394)	50 MB/sec	
XGA Monitor	60 MB/sec	
SONET OC-12 network	78 MB/sec	
SCSI Ultra 2 disk	80 MB/sec	USB 3.0 625 MB/s (5 Gb/s) Thunderbolt 2.5GB/sec (20 Gb/s) PCIe v3.0 x16 16GB/s
Gigabit Ethernet	125 MB/sec	
Ultrium tape	320 MB/sec	
PCI bus	528 MB/sec	
Sun Gigaplane XB backplane	20 GB/sec	

