





























































Charac		
Characteristic	Description	Cost
Speed	Time required to read or write a bit, byte, or larger unit of data	Cost increases as speed increase
Volatility	Capability to hold data indefinitely, particularly in the absence of external power	For devices of a similar type, co decreases as volatility increases
Access method	Can be serial, random, or parallel; parallel devices are also serial or random access	Serial is the least expensive; ran more expensive than serial; par more expensive than nonparalle
Portability	Capability to easily remove and re- install storage media from the device or the device from the computer	For devices of a similar type, po ity increases cost, if all other ef- teristics are held constant.
Capacity	Maximum data quantity the device or storage medium holds	Cost usually increases in direct proportion to capacity.















































😵 CIS410	DDR2 SDRAM Modules
	Standard name(Module name) Data transfers per second
	DDR2-400 (PC2-3200) 400 Million
	DDR2-533 (PC2-4200) 533 Million
	DDR2-667 (PC2-5300) 667 Million
	DDR2-800 (PC2-6400) 800 Million
	DDR2-1066 (PC2-8500) 1066 Million
	 For example, for the module DDR2-800 (PC2-6400) memory clock: 200 MHz system data bus clock: 200 MHz*2 = 400 MHz data transfers per second: 400MT/s * 2 = 800 MT/s data transfer rate in B/s: 800MT/s * 8 B/T = 6400 MB/s.
	Hardware and Software Architecture 56















































