Memory Read Times						
	Hard	d Drive		Flash RAM		RAM
	7200 RPM (1)	10000 RPM (2)	<u>SSD(3)</u>	Very Fast USB pen Drive(4)	SD HC Class 6 Card(5)	DDR2-533 133 MhZ(6)
Case A: Fetch an Average Documen	<u>t</u>					
Size of block to read (mb*)	1					
Avg. Access (seek+latency) (ms*)	10	7.5	0	0	0	0
Transfer (mb/sec)	100	320	56	34	20	1066
Total ms to read	10.01000	7.50313	0.01786	0.02941	0.05000	0.00094
Times per second	99.9	133.3	56,000.0	34,000.0	20,000.0	1,066,000.0
CaseB: (Large) 1 Gig file transfer						
Size of block to read (mb)	100000					
Total ms to read	1010	320	1785.714286	2941.176471	5000	93.80863039
Times per second	0.99	3.13	0.56	0.34	0.20	10.66
(1) HP DS702A 250GB Serial ATA Hard (2) 73GB Fujitsu Ultra320 SCSI hard di (3) Samsung 16GB 2.5 Inch Flash Soli	sk drive 1000	Orpm (\$172)	D)			
(4) Speed varies. Avg is around 3ms. C			,	(\$83)		

(5) Transcen 8GB SDHC high-speed clas	ss 6 (\$33)					
6) DDR2-1066 266 Mhzat 1066 million bp						
*Magnitude						
1ms = 1 / 1000 seconds						
1mb = app. 1,000,000 bytes						
**Actually higher because head has to move after each track						