THIRD ASSIGMENT

ORGANIZATION AND ARCHITECTURE COMPUTER



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ASPECT	HDD (Hard Disk Drive)	SSD (Solid State Drive)
Definition	A hard disk drive (HDD), hard	A solid-state drive (SSD) is a solid-
	disk, hard drive, or fixed disk is an	state storagedevice that uses integrated
	electromechanical data storage	circuit assemblies as memory to store
	device that uses magnetic storage to	data persistently. It is also sometimes
	store and retrieve digital information	called solid-state disk , ^[1] although
	using one or more rigid rapidly	SSDs do not have physical disks.
	rotating disks (platters) coated with	SSDs may use traditional hard disk
	magnetic material.	drive (HDD) form-factors and
		protocols such as SATA and SAS,
		greatly simplifying usage of SSDs in
		computers. ^[2]
Maximum	14 Terabyte	4 Terabyte
Capacity	(the maximum capacity of a single	(this kind of highest capacity is made
	piece HDD that claimed by Seagate.	by Samsung brand)
	Usually used for corporation)	
Speed	HDD has higher latency, longer	SSD has lower latency, faster
	read/write times, and supports fewer	read/writes, and supports more IOPs
	IOPs (input output operations per	(input output operations per second)
	second) compared to SSD.	compared to HDD.
Price	Only around \$0.03 per gigabyte, very	Expensive, roughly \$0.20 per gigabyte
	cheap (buying a 4TB model)	(based on buying a 1TB drive)
Size	HDD is around 2,5 inch $-3,5$ inch	SSD dimension between 1,8 inch to
		3,5 insch
Advantance	HDD is cheaper than SSD	• Faster than HDD
	More capacity	• Low power consumption
		Durable than HDD
Disadvanted	HDD is slower than SSD	Expensive
	 Higher power consumption 	• Less capacity
	 Produce noise while operating 	- Less capacity
	 Not durable compared to SSD 	
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