

SSD performance comparision

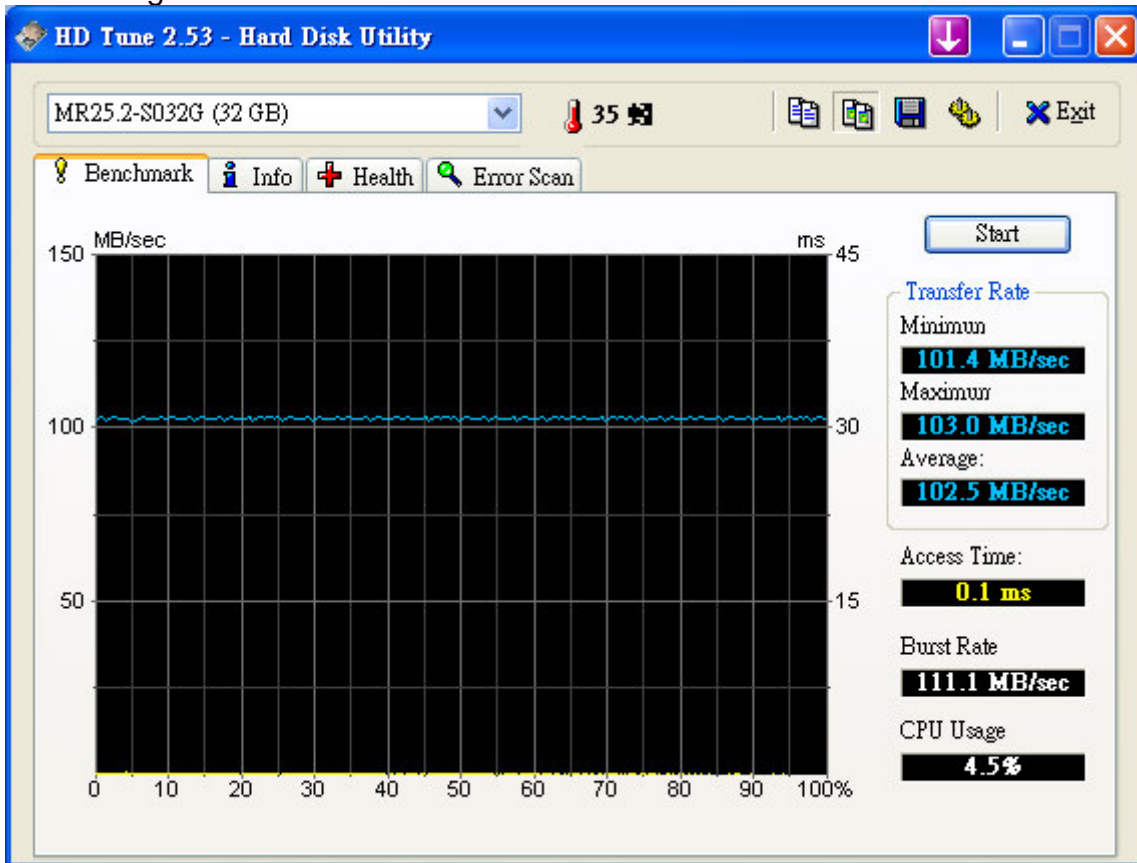
Test Configuration:

Platform	ASUS P5WDG2 WS PRO
Operating System	Windows XP SP2
SATA Host Controller	Intel ICH7R (Running in AHCI Mode)
SATA Deivce	Memo Right MR25.2-S032G SSD 32G Mtron MSP-SATA7525 SSD 32G WD WD1500ADFD SATA HDD 150G ACARD ANS-9010 RAM Disk 12G
IDE Device	Power Flash SSD 2G
Other Bridge	ACARD AEC-7923 ACARD AEC-7923H
Software	IOMeter 2006/07/27 for Win32, i386 Hdtune v2.53; 3.01 H2Bench v3.6

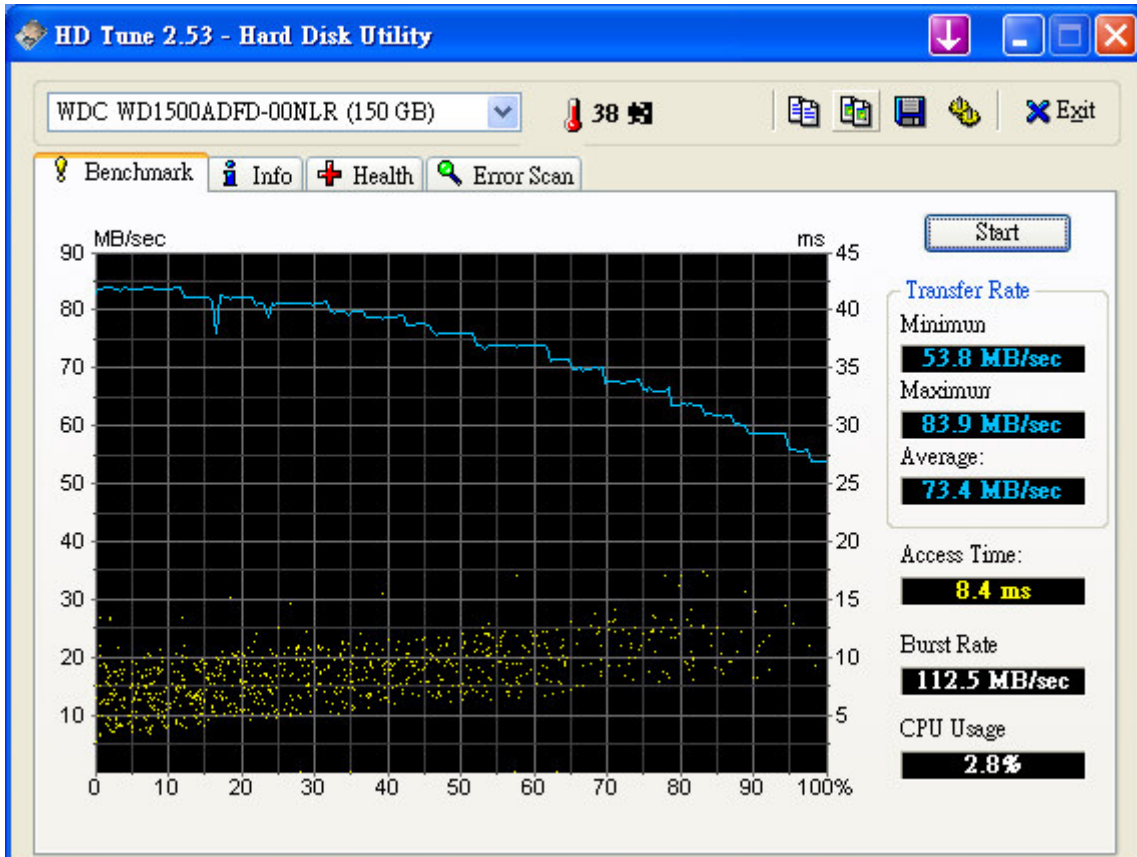
Test Result-IOmeter:

Block Size		Sequential Read	Sequential Write	Random Read	Random Write
MemoRight SSD 512B	MB/s	10.12	11.02	5.52	0.31
	IOPS	20721.49	22562.64	11301.17	642.80
MemoRight SSD 128K	MB/s	118.02	124.36	109.03	19.07
	IOPS	944.16	994.90	872.22	152.55
WD HDD 512B	MB/s	17.30	15.34	0.09	0.09
	IOPS	35424.05	31413.32	177.98	193.68
WD HDD 128K	MB/s	84.59	80.00	16.89	18.06
	IOPS	676.72	636.98	135.15	144.49
ANS-9010 512B	MB/s	16.88	16.50	16.87	16.36
	IOPS	34566.49	33793.41	34547.40	33497.06
ANS-9010 128K	MB/s	175.79	144.37	175.80	144.32
	IOPS	1406.34	1154.93	1406.41	1154.56
PowerFlash SSD 512B	MB/s	1.71	0.61	0.81	0.01
	IOPS	3508.32	1258.19	1655.75	25.24
PowerFlash SSD 128K	MB/s	22.80	13.13	21.11	2.53
	IOPS	182.43	105.03	168.89	20.27
Mtron SSD 512B	MB/s	9.74	14.55	7.16	0.06
	IOPS	19941.52	29807.43	14659.08	112.76
Mtron SSD 128K	MB/s	120.90	108.8	118.04	16.03
	IOPS	967.19	864.63	994.28	96.27

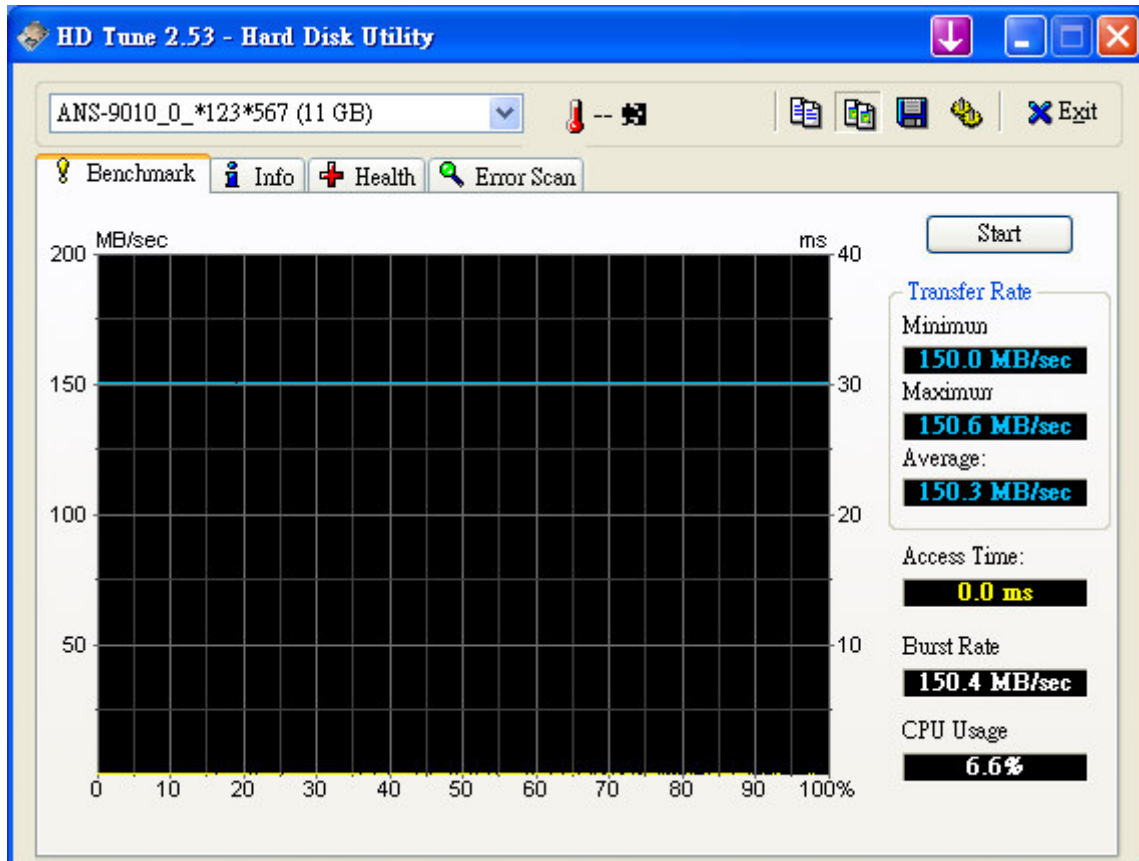
**Test Result:-HDTune:
MemoRight SSD**



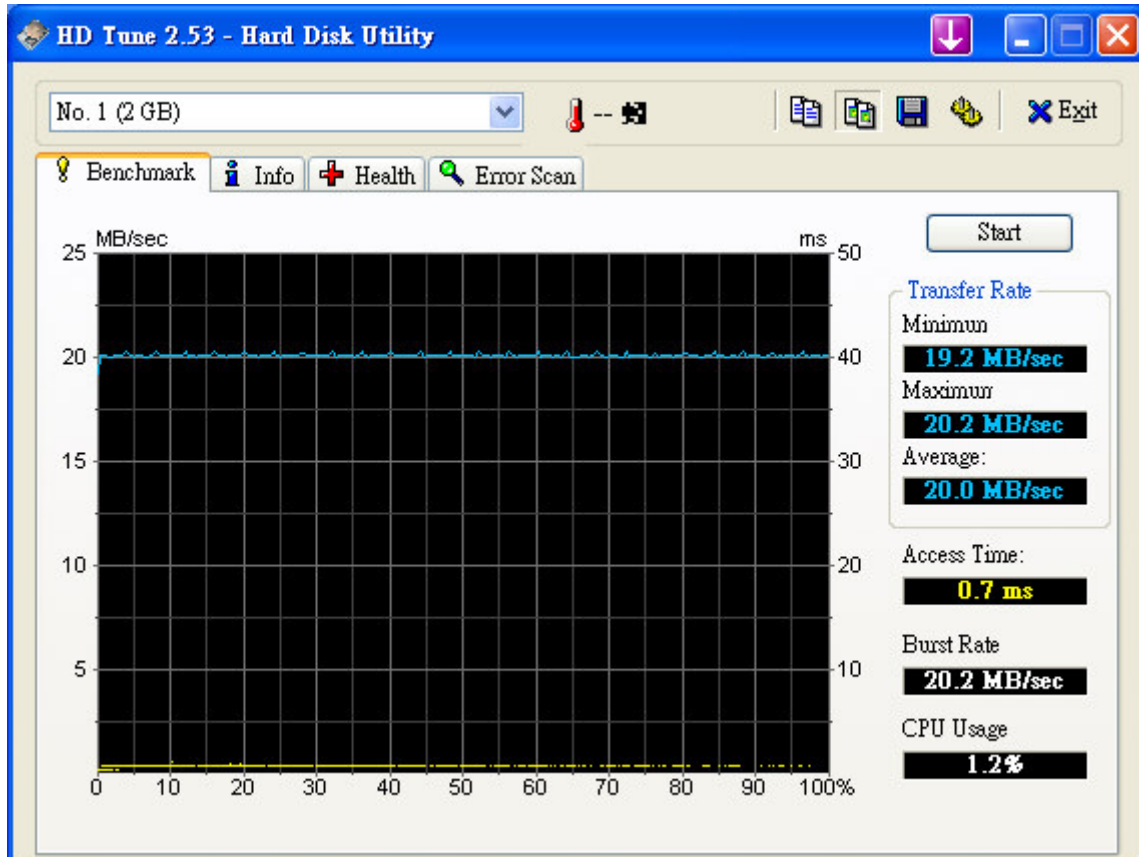
WD HDD



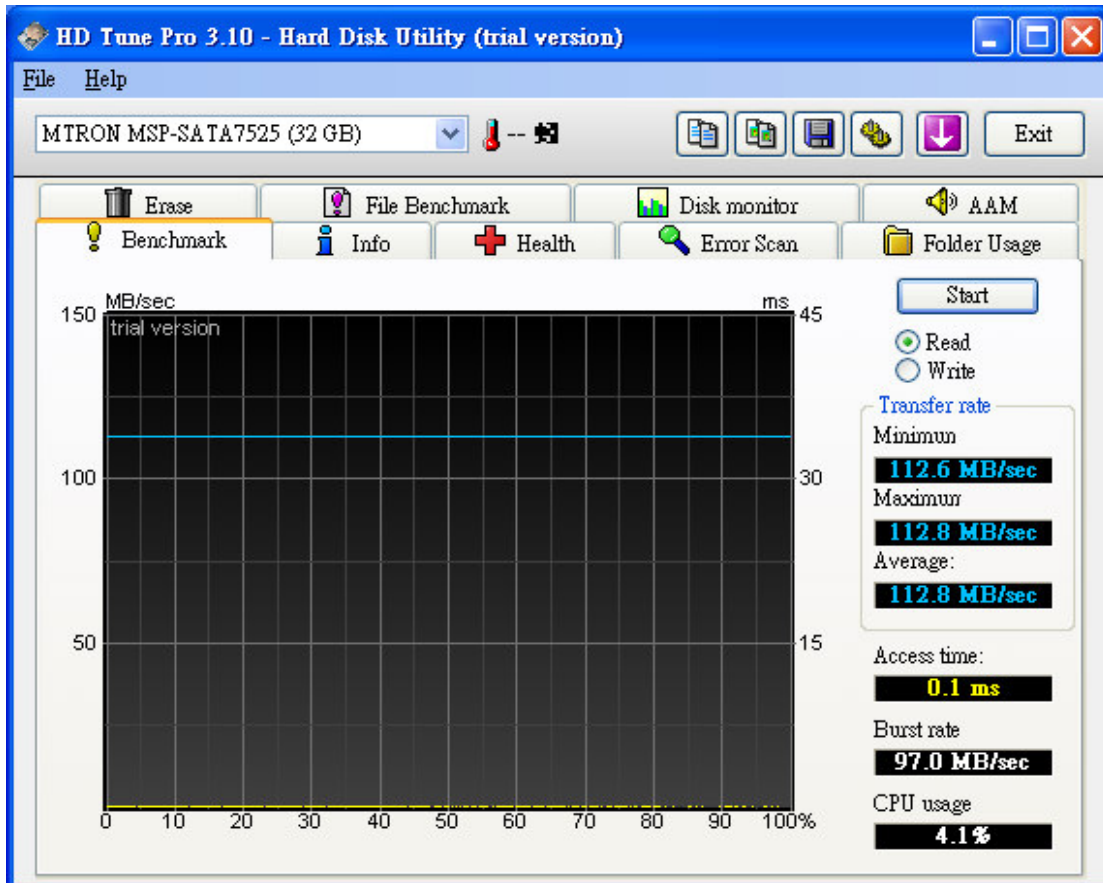
ANS-9010



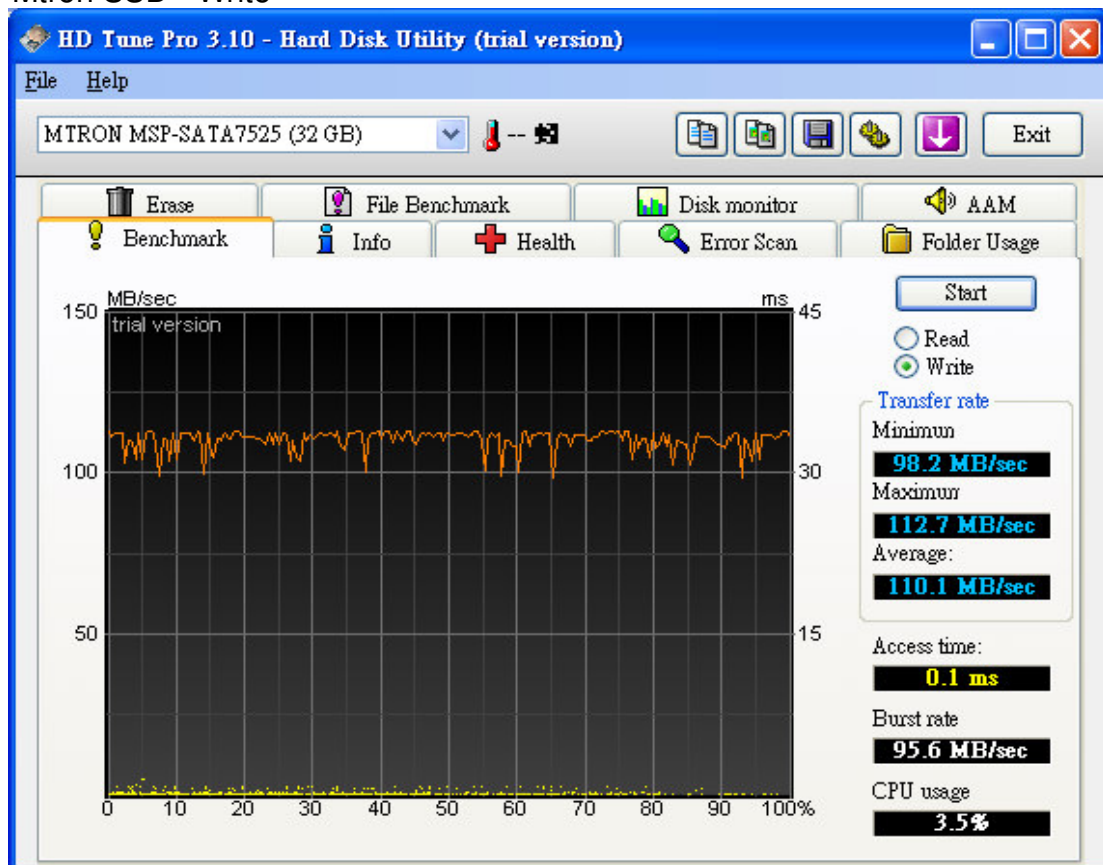
PowerFlash SSD



Mtron SSD - Read



Mtron SSD - Write



Test Result-H2Bench

Device	MemoRight SSD	WD HDD	ANS-9010	PowerFlash SSD
Capacity (GB)	30.72	143.09	10.92	1.95
Interface transfer rate Sequential read (128K)	115.27	86.33	167.59	22.34
Interface transfer rate read ahead (128K)	117.61	118.12	170.49	22.35
Repetitive sequential read ("core test") (128K)	124.83	123.98	168.89	22.36
Sustained transfer rate Average Reading (128K)	115.26	74.97	168.28	22.35
Sustained transfer rate Maximum Reading (128K)	115.46	86.89	168.59	22.38
Sustained transfer rate Minimum Reading (128K)	111.87	56.03	167.79	22.10
Sustained transfer rate Average Writing (128K)	121.97	73.17	140.40	13.20
Sustained transfer rate Maximum Writing (128K)	122.23	93.54	140.67	14.13
Sustained transfer rate Minimum Writing (128K)	121.58	52.41	140.13	11.80
Random access read Average (ms) *Less is better	0.10	8.36	0.04	0.68
Random access write Average (ms) *Less is better	1.55	4.79	0.04	39.72
Application profile 'swapping'	44.62	19.57	109.51	7.02
Application profile 'installing'	106.45	43.02	246.14	2.64
Application profile 'Word'	82.90	61.03	156.51	5.62
Application profile 'Photoshop'	77.07	35.70	156.61	2.42
Application profile 'copying'	161.81	102.19	229.81	6.45
Application profile 'F-Prot'	49.38	18.72	138.96	6.74
Result: application index	77.1	38.1	162.3	4.6

Device	Mtron SSD
Capacity (GB)	30.51
Interface transfer rate Sequential read (128K)	114.02
Interface transfer rate read ahead (128K)	114.60
Repetitive sequential read ("core test") (128K)	110.90
Sustained transfer rate Average Reading (128K)	114.41
Sustained transfer rate Maximum Reading (128K)	114.57
Sustained transfer rate Minimum Reading (128K)	113.77
Sustained transfer rate Average Writing (128K)	114.49
Sustained transfer rate Maximum Writing (128K)	115.88
Sustained transfer rate Minimum Writing (128K)	112.17
Random access read Average (ms) *Less is better	0.08
Random access write Average (ms) *Less is better	8.88
Application profile 'swapping'	53.19
Application profile 'installing'	85.76
Application profile 'Word'	72.44
Application profile 'Photoshop'	83.83
Application profile 'copying'	127.44
Application profile 'F-Prot'	71.70
Result: application index	77.7