

TABLE 2 PHYSICAL DISKS BENCHMARK RESULTS

	Internal SATA	IEEE 1394a (FireWire 400)		USB2		IEEE 1394b (FireWire 800)				eSATA (motherboard)			
						PCI		PCI Express		Seagate		SteelVine	
		RAID 0	RAID 1	RAID 0	RAID 1	RAID 0	RAID 1	RAID 0	RAID 1	FAT 32	NTFS	Contiguous (disks 0/1/2/3/4)	Concatenated


Read performance (no partition)

Drive index (Mbytes/sec)	Not tested	83	38	83	32	83	61	83	Not tested	83	83	55/55/55/55/55	54
Random-access time (msec)	Not tested	17	16	17	15	16	15	18	Not tested	24	24	14/14/14/14/14	14
Speed at position 0%	Not tested	78	36	78	31	78	51	78	Not tested	78	78	55/55/55/55/55	54
Speed at position 33%	Not tested	82	37	82	32	82	51	74	Not tested	82	82	49/50/50/50/50	42
Speed at position 50%	Not tested	66	38	66	32	66	50	80	Not tested	66	66	47/47/47/47/47	47
Speed at position 67%	Not tested	63	37	63	32	61	49	82	Not tested	63	63	42/43/43/43/43	50
Speed at position 100%	Not tested	68	34	68	32	68	36	67	Not tested	68	68	30/30/30/31/31	29
Full-stroke access time (msec)	Not tested	3	2	NR	NR	3	2	3	Not tested	46	46	13/14/14/14/11	3

Read performance (partition)

Drive index (Mbytes/sec)	150	39	83	32	83	83	83	83	Not tested	58	58	93/93/93/93/93	54
Random-access time (msec)	8	17	17	17	16	17	18	17	Not tested	5	26	14/13/13/14/14	13
Speed at position 0%	142	38	78	31	78	78	78	78	Not tested	50	54	93/93/93/93/93	54
Speed at position 33%	135	39	81	31	81	81	81	82	Not tested	51	51	50/50/50/50/50	42
Speed at position 50%	131	39	82	32	82	82	82	80	Not tested	48	48	47/47/47/47/47	47
Speed at position 67%	125	39	70	31	70	70	70	82	Not tested	43	43	43/43/43/43/43	50
Speed at position 100%	98	39	68	32	68	68	68	67	Not tested	28	28	31/31/31/31/31	29
Full-stroke access time (msec)	3	1	2	1	1	3	2	2	Not tested	28	46	14/12/12/12/12	3

Write performance

Drive index (Mbytes/sec)	Not tested	83	38	83	32	83	61	83	Not tested	83	83	55/55/55/55/55	87
Random-access time (msec)	Not tested	0	0	0	0	16	0	0	Not tested	8	8	22/21/21/16/21	2
Speed at position 0%	Not tested	78	36	78	32	78	51	78	Not tested	78	78	55/55/55/55/55	87
Speed at position 33%	Not tested	82	37	82	32	82	60	74	Not tested	82	82	50/50/50/50/50	43
Speed at position 50%	Not tested	66	38	66	32	66	60	80	Not tested	66	66	47/47/47/47/47	47
Speed at position 67%	Not tested	63	37	63	32	63	57	82	Not tested	63	63	43/43/43/43/43	50
Speed at position 100%	Not tested	68	34	68	32	68	38	67	Not tested	68	68	30/30/31/31/31	32
Full-stroke access time (msec)	Not tested	NR	NR	NR	NR	NR	NR	NR	Not tested	3	3	1/1/1/1/1	NR

Notes: eSATA (add-in) concatenated, mirrored (disks 0 and 1/2 and 3), striped (across all five disks), mirrored striped (disks 0 to 3), and parity RAID (across all five disks) were not tested.
NR=not reported.

					eSATA (add-in)		
					Seagate		SteelVine
	Mirrored (disks 0 and 1/2 and 3)	Striped (across all five disks)	Mirrored striped (disks 0 to 3)	Parity RAID (across all five disks)	FAT 32	NTFS	Contiguous (disks 0/1/2/3/4)
	52/53	114	147	147	83	83	55/55/93/93/93
	13/13	13	13	14	26	26	14/14/14/14/13
	47/48	109	144	144	78	78	55/55/93/93/93
	42/49	111	142	142	82	82	50/50/50/50/50
	42/47	111	134	134	66	66	47/47/47/47/47
	38/42	114	124	124	63	63	43/43/43/43/43
	29/29	112	98	98	68	68	31/31/31/31/31
	13/13	5	5	5	48	48	13/12/14/13/13
	54/54	138	147	147	58	58	93/93/93/93/93
	14/13	14	13	14	30	30	14/14/13/13/13
	48/54	137	144	144	53	54	93/93/93/93/93
	50/50	132	142	142	51	51	50/50/50/50/50
	47/47	134	134	134	48	48	47/47/47/47/47
	43/43	137	124	124	43	43	43/43/43/43/43
	30/30	132	98	98	28	28	31/31/31/31/31
	12/13	4	5	5	53	43	15/14/10/11/13
	54/54	138	147	147	83	83	55/55/93/93/93
	19/20	1	5	37	8	8	13/14/3/11/13
	48/48	137	144	144	78	78	55/55/93/93/93
	50/50	132	142	142	82	82	50/50/50/50/50
	47/47	134	134	134	66	66	47/47/47/47/47
	43/43	137	124	124	63	63	43/43/43/43/43
	30/30	132	98	98	68	68	31/31/31/31/31
	1/1	NR	NR	17	3	3	1/1/1/1/1