

Rerun Worker count = 1

12/4/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

Seagate Cheetah 147GB 15K 3.5" HDD HBA Raw (Non-filesystem)

Seagate Cheetah 3.5" 15K 147GB

Test / Step information section					Reads			Writes			Totals (R+W)		Overall Averages (R+W)		
IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
4KB	1	100% Seq 100% Read	480	300	8,210,096	32,840,384	0.04	0	0	0	8,210,096	32,840,384	0.04	27366	109,467
4KB	2	60% Seq 100% Read	480	300	125,101	500,404.0	2.4	-	-	-	125,101	500,404.0	2.4	417	1,668
4KB	3	30% Seq 100% Read	480	300	72,460	289,840.0	4.1	-	-	-	72,460	289,840.0	4.1	241	966
4KB	4	0% Seq 100% Read	480	300	50,917	203,668.0	5.9	-	-	-	50,917	203,668.0	5.9	169	678
4KB	5	100% Seq 60% Read	480	300	109,360	437,440.0	0.0	72,483	289,932.0	4.1	181,843	727,372.0	1.7	606	2,424
4KB	6	60% Seq 60% Read	480	300	47,492	189,968.0	2.4	32,239	128,956.0	5.7	79,731	318,924.0	3.8	265	1,063
4KB	7	30% Seq 60% Read	480	300	35,189	140,756.0	4.2	23,521	94,084.0	6.5	58,710	234,840.0	5.1	195	782
4KB	8	0% Seq 60% Read	480	300	29,184	116,736.0	5.9	19,707	78,828.0	6.4	48,891	195,564.0	6.1	162	651
4KB	9	100% Seq 30% Read	480	300	31,709	126,836.0	0.0	73,806	295,224.0	4.1	105,515	422,060.0	2.8	351	1,406
4KB	10	60% Seq 30% Read	480	300	19,235	76,940.0	2.5	44,579	178,316.0	5.7	63,814	255,256.0	4.7	212	850
4KB	11	30% Seq 30% Read	480	300	16,307	65,228.0	4.2	37,731	150,924.0	6.1	54,038	216,152.0	5.5	180	720
4KB	12	0% Seq 30% Read	480	300	14,186	56,744.0	5.9	33,496	133,984.0	6.4	47,682	190,728.0	6.3	158	635
4KB	13	100% Seq 0% Read	480	300	-	-	-	74,255	297,020.0	4.0	74,255	297,020.0	4.0	247	990
4KB	14	60% Seq 0% Read	480	300	-	-	-	52,318	209,272.0	5.7	52,318	209,272.0	5.7	174	697
4KB	15	30% Seq 0% Read	480	300	-	-	-	45,723	182,892.0	6.6	45,723	182,892.0	6.6	152	609
4KB	16	0% Seq 0% Read	480	300	-	-	-	46,633	186,532.0	6.4	46,633	186,532.0	6.4	155	621

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8KB	18	100% Seq 100% Read	480	300	4,205,536	33,644,288	0.07	0	0	0	4,205,536	33,644,288	0.07	14018	112,147
8KB	19	60% Seq 100% Read	480	300	124,458	995,664.0	2.4	-	-	-	124,458	995,664.0	2.4	414	3,318
8KB	20	30% Seq 100% Read	480	300	71,539	572,312.0	4.2	-	-	-	71,539	572,312.0	4.2	238	1,907
8KB	21	0% Seq 100% Read	480	300	50,538	404,304.0	5.9	-	-	-	50,538	404,304.0	5.9	168	1,347
8KB	22	100% Seq 60% Read	480	300	103,857	830,856.0	0.1	69,453	555,624.0	4.2	173,310	1,386,480.0	1.7	577	4,621
8KB	23	60% Seq 60% Read	480	300	47,123	376,984.0	2.5	31,317	250,536.0	5.9	78,440	627,520.0	3.8	261	2,091
8KB	24	30% Seq 60% Read	480	300	36,100	288,800.0	4.2	23,726	189,808.0	6.3	59,826	478,608.0	5.0	199	1,595
8KB	25	0% Seq 60% Read	480	300	28,711	229,688.0	6.0	19,567	156,536.0	6.5	48,278	386,224.0	6.2	160	1,287
8KB	26	100% Seq 30% Read	480	300	30,906	247,248.0	0.1	72,669	581,352.0	4.1	103,575	828,600.0	2.9	345	2,762
8KB	27	60% Seq 30% Read	480	300	18,946	151,568.0	2.5	44,146	353,168.0	5.7	63,092	504,736.0	4.8	210	1,682
8KB	28	30% Seq 30% Read	480	300	15,591	124,728.0	4.3	36,745	293,960.0	6.4	52,336	418,688.0	5.7	174	1,395
8KB	29	0% Seq 30% Read	480	300	14,018	112,144.0	6.0	33,189	265,512.0	6.5	47,207	377,656.0	6.4	157	1,258
8KB	30	100% Seq 0% Read	480	300	-	-	-	73,350	586,800.0	4.1	73,350	586,800.0	4.1	244	1,956
8KB	31	60% Seq 0% Read	480	300	-	-	-	53,140	425,120.0	5.6	53,140	425,120.0	5.6	177	1,417
8KB	32	30% Seq 0% Read	480	300	-	-	-	47,099	376,792.0	6.4	47,099	376,792.0	6.4	156	1,255
8KB	33	0% Seq 0% Read	480	300	-	-	-	46,395	371,160.0	6.5	46,395	371,160.0	6.5	154	1,237

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16KB	35	100% Seq 100% Read	480	300	2,157,038	34,512,608	0.14	0	0	0	2,157,038	34,512,608	0.14	7190	115,042
16KB	36	60% Seq 100% Read	480	300	118,673	1,898,768.0	2.5	-	-	-	118,673	1,898,768.0	2.5	395	6,329
16KB	37	30% Seq 100% Read	480	300	70,462	1,127,392.0	4.3	-	-	-	70,462	1,127,392.0	4.3	234	3,757
16KB	38	0% Seq 100% Read	480	300	49,817	797,072.0	6.0	-	-	-	49,817	797,072.0	6.0	166	2,656
16KB	39	100% Seq 60% Read	480	300	99,052	1,584,832.0	0.1	66,019	1,056,304.0	4.3	165,071	2,641,136.0	1.8	550	8,803
16KB	40	60% Seq 60% Read	480	300	45,277	724,432.0	2.5	30,271	484,336.0	6.1	75,548	1,208,768.0	4.0	251	4,029
16KB	41	30% Seq 60% Read	480	300	34,555	552,880.0	4.3	22,942	367,072.0	6.6	57,497	919,952.0	5.2	191	3,066
16KB	42	0% Seq 60% Read	480	300	28,728	459,648.0	6.1	19,102	305,632.0	6.6	47,830	765,280.0	6.3	159	2,550
16KB	43	100% Seq 30% Read	480	300	30,370	485,920.0	0.1	70,117	1,121,872.0	4.2	100,487	1,607,792.0	3.0	334	5,359
16KB	44	60% Seq 30% Read	480	300	18,599	297,584.0	2.5	43,428	694,848.0	5.8	62,027	992,432.0	4.8	206	3,308
16KB	45	30% Seq 30% Read	480	300	14,940	239,040.0	4.4	35,204	563,264.0	6.6	50,144	802,304.0	6.0	167	2,674
16KB	46	0% Seq 30% Read	480	300	14,014	224,224.0	6.1	32,745	523,920.0	6.6	46,759	748,144.0	6.4	155	2,493
16KB	47	100% Seq 0% Read	480	300	-	-	-	71,904	1,150,464.0	4.2	71,904	1,150,464.0	4.2	239	3,834
16KB	48	60% Seq 0% Read	480	300	-	-	-	51,232	819,712.0	5.9	51,232	819,712.0	5.9	170	2,732
16KB	49	30% Seq 0% Read	480	300	-	-	-	47,174	754,784.0	6.4	47,174	754,784.0	6.4	157	2,515
16KB	50	0% Seq 0% Read	480	300	-	-	-	45,804	732,864.0	6.5	45,804	732,864.0	6.5	152	2,442

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Test / Step information section					Reads			Writes			Totals (R+W)		Overall Averages (R+W)		
IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
32KB	52	100% Seq 100% Read	480	300	1,081,932	34,621,824	0.28	0	0	0	1,081,932	34,621,824	0.28	3606	115,406
32KB	53	60% Seq 100% Read	480	300	110,858	3,547,456.0	2.7	-	-	-	110,858	3,547,456.0	2.7	369	11,824
32KB	54	30% Seq 100% Read	480	300	67,875	2,172,000.0	4.4	-	-	-	67,875	2,172,000.0	4.4	226	7,240
32KB	55	0% Seq 100% Read	480	300	48,835	1,562,720.0	6.1	-	-	-	48,835	1,562,720.0	6.1	162	5,209
32KB	56	100% Seq 60% Read	480	300	89,470	2,863,040.0	0.3	59,731	1,911,392.0	4.6	149,201	4,774,432.0	2.0	497	15,914
32KB	57	60% Seq 60% Read	480	300	44,447	1,422,304.0	2.6	29,420	941,440.0	6.3	73,867	2,363,744.0	4.1	246	7,879
32KB	58	30% Seq 60% Read	480	300	32,822	1,050,304.0	4.5	21,883	700,256.0	7.0	54,705	1,750,560.0	5.5	182	5,835
32KB	59	0% Seq 60% Read	480	300	27,577	882,464.0	6.2	18,657	597,024.0	6.9	46,234	1,479,488.0	6.5	154	4,931
32KB	60	100% Seq 30% Read	480	300	28,465	910,880.0	0.2	67,011	2,144,352.0	4.4	95,476	3,055,232.0	3.1	318	10,184
32KB	61	60% Seq 30% Read	480	300	17,603	563,296.0	2.7	41,179	1,317,728.0	6.1	58,782	1,881,024.0	5.1	195	6,270
32KB	62	30% Seq 30% Read	480	300	14,954	478,528.0	4.5	34,901	1,116,832.0	6.7	49,855	1,595,360.0	6.0	166	5,317
32KB	63	0% Seq 30% Read	480	300	13,613	435,616.0	6.2	31,613	1,011,616.0	6.8	45,226	1,447,232.0	6.6	150	4,824
32KB	64	100% Seq 0% Read	480	300	-	-	-	69,265	2,216,480.0	4.3	69,265	2,216,480.0	4.3	230	7,388
32KB	65	60% Seq 0% Read	480	300	-	-	-	49,189	1,574,048.0	6.1	49,189	1,574,048.0	6.1	163	5,246
32KB	66	30% Seq 0% Read	480	300	-	-	-	46,101	1,475,232.0	6.5	46,101	1,475,232.0	6.5	153	4,917
32KB	67	0% Seq 0% Read	480	300	-	-	-	44,049	1,409,568.0	6.8	44,049	1,409,568.0	6.8	146	4,698

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IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
64KB	69	100% Seq 100% Read	480	300	524,761	33,584,704	0.57	0	0	0	524,761	33,584,704	0.57	1749	111,949
64KB	70	60% Seq 100% Read	480	300	95,254	6,096,256.0	3.1	-	-	-	95,254	6,096,256.0	3.1	317	20,320
64KB	71	30% Seq 100% Read	480	300	63,244	4,047,616.0	4.7	-	-	-	63,244	4,047,616.0	4.7	210	13,492
64KB	72	0% Seq 100% Read	480	300	47,093	3,013,952.0	6.4	-	-	-	47,093	3,013,952.0	6.4	156	10,046
64KB	73	100% Seq 60% Read	480	300	74,652	4,777,728.0	0.5	49,149	3,145,536.0	5.4	123,801	7,923,264.0	2.4	412	26,410
64KB	74	60% Seq 60% Read	480	300	39,827	2,548,928.0	2.9	26,325	1,684,800.0	7.0	66,152	4,233,728.0	4.5	220	14,112
64KB	75	30% Seq 60% Read	480	300	32,766	2,097,024.0	4.6	21,520	1,377,280.0	7.0	54,286	3,474,304.0	5.5	180	11,581
64KB	76	0% Seq 60% Read	480	300	26,837	1,717,568.0	6.5	17,778	1,137,792.0	7.1	44,615	2,855,360.0	6.7	148	9,517
64KB	77	100% Seq 30% Read	480	300	26,077	1,668,928.0	0.4	60,762	3,888,768.0	4.7	86,839	5,557,696.0	3.5	289	18,525
64KB	78	60% Seq 30% Read	480	300	16,644	1,065,216.0	2.8	39,112	2,503,168.0	6.5	55,756	3,568,384.0	5.4	185	11,894
64KB	79	30% Seq 30% Read	480	300	13,873	887,872.0	4.7	32,433	2,075,712.0	7.2	46,306	2,963,584.0	6.5	154	9,878
64KB	80	0% Seq 30% Read	480	300	13,132	840,448.0	6.5	30,506	1,952,384.0	7.0	43,638	2,792,832.0	6.9	145	9,309
64KB	81	100% Seq 0% Read	480	300	-	-	-	65,114	4,167,296.0	4.6	65,114	4,167,296.0	4.6	217	13,890
64KB	82	60% Seq 0% Read	480	300	-	-	-	47,887	3,064,768.0	6.3	47,887	3,064,768.0	6.3	159	10,215
64KB	83	30% Seq 0% Read	480	300	-	-	-	42,558	2,723,712.0	7.0	42,558	2,723,712.0	7.0	141	9,079
64KB	84	0% Seq 0% Read	480	300	-	-	-	42,498	2,719,872.0	7.1	42,498	2,719,872.0	7.1	141	9,066

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128KB	86	100% Seq 100% Read	480	300	261,840	33,515,520	1.14	0	0	0	261,840	33,515,520	1.14	872	111,718
128KB	87	60% Seq 100% Read	480	300	74,675	9,558,400.0	4.0	-	-	-	74,675	9,558,400.0	4.0	248	31,861
128KB	88	30% Seq 100% Read	480	300	55,718	7,131,904.0	5.4	-	-	-	55,718	7,131,904.0	5.4	185	23,773
128KB	89	0% Seq 100% Read	480	300	43,536	5,572,608.0	6.9	-	-	-	43,536	5,572,608.0	6.9	145	18,575
128KB	90	100% Seq 60% Read	480	300	54,983	7,037,824.0	1.1	36,420	4,661,760.0	6.6	91,403	11,699,584.0	3.3	304	38,998
128KB	91	60% Seq 60% Read	480	300	34,777	4,451,456.0	3.5	23,163	2,964,864.0	7.7	57,940	7,416,320.0	5.2	193	24,721
128KB	92	30% Seq 60% Read	480	300	27,686	3,543,808.0	5.3	18,796	2,405,888.0	8.2	46,482	5,949,696.0	6.5	154	19,832
128KB	93	0% Seq 60% Read	480	300	24,757	3,168,896.0	7.0	16,435	2,103,680.0	7.7	41,192	5,272,576.0	7.3	137	17,575
128KB	94	100% Seq 30% Read	480	300	21,197	2,713,216.0	1.0	49,710	6,362,880.0	5.6	70,907	9,076,096.0	4.2	236	30,253
128KB	95	60% Seq 30% Read	480	300	15,190	1,944,320.0	3.2	35,739	4,574,592.0	7.0	50,929	6,518,912.0	5.9	169	21,729
128KB	96	30% Seq 30% Read	480	300	12,936	1,655,808.0	5.1	30,528	3,907,584.0	7.7	43,464	5,563,392.0	6.9	144	18,544
128KB	97	0% Seq 30% Read	480	300	11,899	1,523,072.0	7.0	28,007	3,584,896.0	7.7	39,906	5,107,968.0	7.5	133	17,026
128KB	98	100% Seq 0% Read	480	300	-	-	-	57,916	7,413,248.0	5.2	57,916	7,413,248.0	5.2	193	24,710
128KB	99	60% Seq 0% Read	480	300	-	-	-	43,556	5,575,168.0	6.9	43,556	5,575,168.0	6.9	145	18,583
128KB	100	30% Seq 0% Read	480	300	-	-	-	40,616	5,198,848.0	7.4	40,616	5,198,848.0	7.4	135	17,329
128KB	101	0% Seq 0% Read	480	300	-	-	-	39,049	4,998,272.0	7.7	39,049	4,998,272.0	7.7	130	16,660

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IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
256KB	103	100% Seq 100% Read	480	300	130,922	33,516,032	2.29	0	0	0	130,922	33,516,032	2.29	436	111,720
256KB	104	60% Seq 100% Read	480	300	41,935	10,735,360.0	7.2	-	-	-	41,935	10,735,360.0	7.2	139	35,784
256KB	105	30% Seq 100% Read	480	300	31,506	8,065,536.0	9.5	-	-	-	31,506	8,065,536.0	9.5	105	26,885
256KB	106	0% Seq 100% Read	480	300	24,569	6,289,664.0	12.2	-	-	-	24,569	6,289,664.0	12.2	81	20,965
256KB	107	100% Seq 60% Read	480	300	36,649	9,382,144.0	2.3	24,569	6,289,664.0	8.7	61,218	15,671,808.0	4.9	204	52,239
256KB	108	60% Seq 60% Read	480	300	23,961	6,134,016.0	5.6	16,084	4,117,504.0	10.2	40,045	10,251,520.0	7.5	133	34,171
256KB	109	30% Seq 60% Read	480	300	19,347	4,952,832.0	8.0	13,176	3,373,056.0	11.0	32,523	8,325,888.0	9.2	108	27,752
256KB	110	0% Seq 60% Read	480	300	16,424	4,204,544.0	10.6	10,981	2,811,136.0	11.4	27,405	7,015,680.0	10.9	91	23,385
256KB	111	100% Seq 30% Read	480	300	16,064	4,112,384.0	2.6	37,414	9,577,984.0	6.9	53,478	13,690,368.0	5.6	178	45,634
256KB	112	60% Seq 30% Read	480	300	11,239	2,877,184.0	4.4	25,839	6,614,784.0	9.7	37,078	9,491,968.0	8.1	123	31,639
256KB	113	30% Seq 30% Read	480	300	10,069	2,577,664.0	7.2	23,548	6,028,288.0	9.7	33,617	8,605,952.0	8.9	112	28,686
256KB	114	0% Seq 30% Read	480	300	9,047	2,316,032.0	9.3	21,293	5,451,008.0	10.1	30,340	7,767,040.0	9.9	101	25,890
256KB	115	100% Seq 0% Read	480	300	-	-	-	49,187	12,591,872.0	6.1	49,187	12,591,872.0	6.1	163	41,972
256KB	116	60% Seq 0% Read	480	300	-	-	-	36,606	9,371,136.0	8.2	36,606	9,371,136.0	8.2	122	31,237
256KB	117	30% Seq 0% Read	480	300	-	-	-	34,365	8,797,440.0	8.7	34,365	8,797,440.0	8.7	114	29,324
256KB	118	0% Seq 0% Read	480	300	-	-	-	33,539	8,585,984.0	8.9	33,539	8,585,984.0	8.9	111	28,619

Worker count = 1

12/4/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

Seagate Cheetah 147GB 15K 3.5" HDD HBA Raw (Non-filesystem)

Test / Step information section					Reads			Writes			Totals (R+W)		Overall Averages (R+W)		
IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
512KB	120	100% Seq 100% Read	480	300	66,361	33,976,832	4.51	0	0	0	66,361	33,976,832	4.51	221	113,256
512KB	121	60% Seq 100% Read	480	300	29,144	14,921,728.0	10.3	-	-	-	29,144	14,921,728.0	10.3	97	49,739
512KB	122	30% Seq 100% Read	480	300	21,840	11,182,080.0	13.7	-	-	-	21,840	11,182,080.0	13.7	72	37,273
512KB	123	0% Seq 100% Read	480	300	19,819	10,147,328.0	15.1	-	-	-	19,819	10,147,328.0	15.1	66	33,824
512KB	124	100% Seq 60% Read	480	300	24,263	12,422,656.0	4.4	15,965	8,174,080.0	12.0	40,228	20,596,736.0	7.5	134	68,655
512KB	125	60% Seq 60% Read	480	300	17,032	8,720,384.0	9.1	11,367	5,819,904.0	12.7	28,399	14,540,288.0	10.6	94	48,467
512KB	126	30% Seq 60% Read	480	300	14,817	7,586,304.0	12.1	9,706	4,969,472.0	12.4	24,523	12,555,776.0	12.2	81	41,852
512KB	127	0% Seq 60% Read	480	300	13,142	6,728,704.0	14.6	8,763	4,486,656.0	12.3	21,905	11,215,360.0	13.7	73	37,384
512KB	128	100% Seq 30% Read	480	300	10,813	5,536,256.0	4.9	25,287	12,946,944.0	9.8	36,100	18,483,200.0	8.3	120	61,610
512KB	129	60% Seq 30% Read	480	300	8,215	4,206,080.0	8.8	19,394	9,929,728.0	11.7	27,609	14,135,808.0	10.9	92	47,119
512KB	130	30% Seq 30% Read	480	300	7,573	3,877,376.0	12.1	17,732	9,078,784.0	11.8	25,305	12,956,160.0	11.9	84	43,187
512KB	131	0% Seq 30% Read	480	300	7,132	3,651,584.0	14.3	16,604	8,501,248.0	11.9	23,736	12,152,832.0	12.6	79	40,509
512KB	132	100% Seq 0% Read	480	300	-	-	-	34,885	17,861,120.0	8.6	34,885	17,861,120.0	8.6	116	59,537
512KB	133	60% Seq 0% Read	480	300	-	-	-	28,612	14,649,344.0	10.5	28,612	14,649,344.0	10.5	95	48,831
512KB	134	30% Seq 0% Read	480	300	-	-	-	26,988	13,817,856.0	11.1	26,988	13,817,856.0	11.1	89	46,059
512KB	135	0% Seq 0% Read	480	300	-	-	-	26,043	13,334,016.0	11.5	26,043	13,334,016.0	11.5	86	44,446

Worker count = 1

12/4/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

Seagate Cheetah 147GB 15K 3.5" HDD HBA Raw (Non-filesystem)

Test / Step information section					Reads			Writes			Totals (R+W)		Overall Averages (R+W)		
IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
1024KB	137	100% Seq 100% Read	480	300	35,826	36,685,824	8.37	0	0	0	35,826	36,685,824	8.37	119	122,286
1024KB	138	60% Seq 100% Read	480	300	18,404	18,845,696.0	16.3	-	-	-	18,404	18,845,696.0	16.3	61	62,818
1024KB	139	30% Seq 100% Read	480	300	17,336	17,752,064.0	17.3	-	-	-	17,336	17,752,064.0	17.3	57	59,173
1024KB	140	0% Seq 100% Read	480	300	15,465	15,836,160.0	19.4	-	-	-	15,465	15,836,160.0	19.4	51	52,787
1024KB	141	100% Seq 60% Read	480	300	14,285	14,627,840.0	9.4	9,571	9,800,704.0	17.2	23,856	24,428,544.0	12.6	79	81,428
1024KB	142	60% Seq 60% Read	480	300	11,741	12,022,784.0	13.8	7,766	7,952,384.0	17.8	19,507	19,975,168.0	15.4	65	66,583
1024KB	143	30% Seq 60% Read	480	300	10,002	10,242,048.0	17.8	6,780	6,942,720.0	18.0	16,782	17,184,768.0	17.9	55	57,282
1024KB	144	0% Seq 60% Read	480	300	9,796	10,031,104.0	19.1	6,524	6,680,576.0	17.2	16,320	16,711,680.0	18.4	54	55,705
1024KB	145	100% Seq 30% Read	480	300	6,679	6,839,296.0	10.9	15,420	15,790,080.0	14.7	22,099	22,629,376.0	13.6	73	75,431
1024KB	146	60% Seq 30% Read	480	300	5,600	5,734,400.0	13.6	13,224	13,541,376.0	16.9	18,824	19,275,776.0	15.9	62	64,252
1024KB	147	30% Seq 30% Read	480	300	5,454	5,584,896.0	16.4	12,727	13,032,448.0	16.5	18,181	18,617,344.0	16.5	60	62,057
1024KB	148	0% Seq 30% Read	480	300	5,129	5,252,096.0	18.9	12,046	12,335,104.0	16.8	17,175	17,587,200.0	17.5	57	58,624
1024KB	149	100% Seq 0% Read	480	300	-	-	-	19,495	19,962,880.0	15.4	19,495	19,962,880.0	15.4	64	66,542
1024KB	150	60% Seq 0% Read	480	300	-	-	-	19,219	19,680,256.0	15.6	19,219	19,680,256.0	15.6	64	65,600
1024KB	151	30% Seq 0% Read	480	300	-	-	-	18,845	19,297,280.0	15.9	18,845	19,297,280.0	15.9	62	64,324
1024KB	152	0% Seq 0% Read	480	300	-	-	-	18,220	18,657,280.0	16.5	18,220	18,657,280.0	16.5	60	62,190

Worker count = 1

12/4/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

Seagate Cheetah 147GB 15K 3.5" HDD HBA Raw (Non-filesystem)

Test / Step information section					Reads			Writes			Totals (R+W)		Overall Averages (R+W)		
IO Size for test	Test Step	Workload Pattern of test	Total Run Time Sec (with pauses)	Work Test Time Sec	Total Reads (IOPS)	(IOPS x Iosize) Total Read KB	Avg Read Resp ms	Total Writes (IOPS)	(Iosize x Writes) Total Write KB	Avg Write Resp ms	Total IOPs (R+W)	Total KB (R+W) data transfer	STX Cheetah 15K Avg. Resp (R+W) ms	STX Cheetah 15K Avg. IOP Sec (R+W)	STX Cheetah 15K Bandwidth KB Sec (R+W)
2048KB	154	100% Seq 100% Read	480	300	16,964	34,742,272	17.67	0	0	0	16,964	34,742,272	17.67	56	115,807
2048KB	155	60% Seq 100% Read	480	300	12,572	25,747,456.0	23.9	-	-	-	12,572	25,747,456.0	23.9	41	85,824
2048KB	156	30% Seq 100% Read	480	300	10,139	20,764,672.0	29.6	-	-	-	10,139	20,764,672.0	29.6	33	69,215
2048KB	157	0% Seq 100% Read	480	300	10,624	21,757,952.0	28.2	-	-	-	10,624	21,757,952.0	28.2	35	72,526
2048KB	158	100% Seq 60% Read	480	300	7,034	14,405,632.0	20.8	4,792	9,814,016.0	32.0	11,826	24,219,648.0	25.4	39	80,732
2048KB	159	60% Seq 60% Read	480	300	6,745	13,813,760.0	23.9	4,498	9,211,904.0	30.9	11,243	23,025,664.0	26.7	37	76,752
2048KB	160	30% Seq 60% Read	480	300	6,463	13,236,224.0	27.2	4,399	9,009,152.0	28.3	10,862	22,245,376.0	27.6	36	74,151
2048KB	161	0% Seq 60% Read	480	300	6,514	13,340,672.0	27.9	4,311	8,828,928.0	27.3	10,825	22,169,600.0	27.7	36	73,898
2048KB	162	100% Seq 30% Read	480	300	3,411	6,985,728.0	25.0	8,118	16,625,664.0	26.4	11,529	23,611,392.0	26.0	38	78,704
2048KB	163	60% Seq 30% Read	480	300	3,642	7,458,816.0	22.6	8,472	17,350,656.0	25.7	12,114	24,809,472.0	24.8	40	82,698
2048KB	164	30% Seq 30% Read	480	300	3,507	7,182,336.0	25.2	7,937	16,254,976.0	26.6	11,444	23,437,312.0	26.2	38	78,124
2048KB	165	0% Seq 30% Read	480	300	3,299	6,756,352.0	27.8	7,683	15,734,784.0	27.1	10,982	22,491,136.0	27.3	36	74,970
2048KB	166	100% Seq 0% Read	480	300	-	-	-	14,614	29,929,472.0	20.5	14,614	29,929,472.0	20.5	48	99,764
2048KB	167	60% Seq 0% Read	480	300	-	-	-	11,808	24,182,784.0	25.4	11,808	24,182,784.0	25.4	39	80,609
2048KB	168	30% Seq 0% Read	480	300	-	-	-	11,566	23,687,168.0	25.9	11,566	23,687,168.0	25.9	38	78,957
2048KB	169	0% Seq 0% Read	480	300	-	-	-	11,210	22,958,080.0	26.8	11,210	22,958,080.0	26.8	37	76,526