

SPC-1 Benchmark Results for Midrange Storage Systems

	Hitachi Data Systems			HP	IBM				NetApp		EMC
Model	Adaptable Modular Storage 2100	Adaptable Modular Storage 2300	Adaptable Modular Storage 2500	EVA2C12D	DS4300	DS4800	DS5020	DS5300	FAS3040	FAS3170	CX-3 Ultrastore 40
Controller Type	Active-Active	Active-Active	Active-Active	Active-Passive	Active-Passive	Active-Passive	Active-Passive	Active-Passive	Active-Passive	Active-Passive	Active-Passive
SPC-1 IOPS	31,498.58	42,502.61	89,491.81	24,005.54	12,102.97	45,014.81	26,090.03	62,243.63	30,992.39	60,515.34	24,997.49
Price/Performance	\$5.85/SPC-1 IOPS	\$6.96/SPC-1 IOPS	\$6.71/SPC-1 IOPS	\$19.99/SPC-1 IOPS	\$11.07/SPC-1 IOPS	\$13.94/SPC-1 IOPS	\$7.49/SPC-1 IOPS	\$11.76/SPC-1 IOPS	\$13.58/SPC-1 IOPS	\$10.01/SPC-1 IOPS	\$20.72/SPC-1 IOPS
SPC-1 Sustainability Rate (Throughput MB/s)	258MB/s	350MB/s	735MB/s	197MB/s	99.5MB/s	370MB/s	214MB/s	511MB/s	260MB/s	497MB/s	205MB/s
Average Response Time (10% Load Point)	1.83ms	1.88ms	2.10ms	2.29ms	2.07ms	2.15ms	1.97ms	1.75ms	2.86ms	2.56ms	4.34ms
Average Response Time (50% Load Point)	2.67ms	2.70ms	2.88ms	4.08ms	4.21ms	3.26ms	3.91ms	2.95ms	5.27ms	4.16ms	6.72ms
Average Response Time (80% Load Point)	4.80ms	4.05ms	5.02ms	7.69ms	7.96ms	5.24ms	6.64ms	4.41ms	9.65ms	7.51ms	11.79ms
Average Response Time (100% Load Point)	8.15ms	6.33ms	8.98ms	15.49ms	21.09ms	15.39ms	10.49ms	14.37ms	22.32ms	20.8ms	24.12ms

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