Test Environment: Ubuntu 18.06

System Details.

We ran the analysis on two different systems

The results are so below.

All fields marked in orange are tested on the following system

product: Intel(R) Core(TM) i5-3210M CPU @ 2.50GHz

vendor: Intel Corp.

physical id: 1

bus info: cpu@0 size: 2789MHz

capacity: 3100MHz

width: 64 bits

Number of cores: 4

Hard disk size: 500 GB, type: HDD

RAM: DDR3, 12GB

All the fields not marked in orange are tested in system with following requirements

Number of cores: 8

Hard disk size: 500 GB, type: HDD

RAM: DDR4, 16GB

Analysis: All Times in Seconds.

age Size	Record Size	Insert Run Time	Delete Run Time	Read Mode	Scan Length	Read Run Time
1024	8	5.9	16.5	s	10	0.05
					100	0.055
					1000	0.05
					10	0.5
				r	100	7.2
					1000	82
	64	15.8	58.6		10	0.61
				s	100	0.61
					1000	0.6
					10	3.73
				r	100	38.2
					1000	402
	256	85	227.5		10	2.9
				s	100	2.4
					1000	2.7
					10	28.5
				r	100	220
					4000	
					1000	2160
ge Size	Record Size	Insert Run Time	Delete Run Tim	e Read Mode	Scan Length	Read Run Time
ge Size	Record Size	Insert Run Time	Delete Run Tim	e Read Mode		Read Run Time
ge Size	Record Size	Insert Run Time	Delete Run Tim	e Read Mode	Scan Length	Read Run Time 0 0.029
ge Size				s	Scan Length	Read Run Time 0 0.029 0 0.024
ge Size	Record Size			s	Scan Length	Read Run Time 0 0.029 0 0.024 0 0.027
ge Size				s	Scan Length 10 100	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58
ige Size				s	Scan Length 10 100 1000	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45
ige Size				s	Scan Length 10 100 100 100	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 55.26
ge Size				s	Scan Length 10 100 100 100 100 100	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 55.26 0 0.0038
	8	4.3	10	s r s	Scan Length 10 100 100 100 100 100 100	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 55.26 0 0.0038 0 0.0042
ige Size	8	4.3	10	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.058 0 5.45 0 55.26 0 0.0038 0 0.0042 0 0.0072
	8	4.3	10	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.058 0 5.45 0 55.26 0 0.0038 0 0.0042 0 0.0072
	8	4.3	10	s r s	Scan Length 100 1000 1000 1000 1000 1000 1000 10	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 0.0038 0 0.0042 0 0.0072 0 2.2
	8	4.3	10	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.058 0 5.45 0 55.26 0 0.0038 0 0.0042 0 0.0072 0 2.2
	8	4.3	10	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 0.0038 0 0.0042 0 0.0072 0 2.24 0 214.1
	64	10.7	111.5	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 55.26 0 0.0038 0 0.0042 0 0.0072 0 2.2 0 22.24 0 214.1 0 0.012
	8	10.7	111.5	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 55.26 0 0.0038 0 0.0042 0 0.0072 0 2.2 0 22.24 0 214.1 0 0.012 0 0.012
	64	10.7	111.5	s r s	Scan Length 10 100 100 100 100 100 100 10	Read Run Time 0 0.029 0 0.024 0 0.027 0 0.58 0 5.45 0 0.0038 0 0.0042 0 0.0072 0 2.2 0 22.24 0 214.1 0 0.012 0 0.012 0 0.012

Page Size	Record Size	Insert Run Time	Delete Run Time	Read Mode	Scan Length	Read Run Time
16384	8	4.1	7.5	s	10	0.06
					100	0.05
					1000	0.05
				г	10	0.25
					100	3.2
					1000	33.89
	64	8.65	19.5	s	10	0.17
					100	0.18
					1000	0.18
				r	10	1.17
					100	14.82
					1000	143.83
	256	96.5	61.35	s	10	1.04
					100	1.09
					1000	1.11
				r	10	6.4
					100	66
					1000	728.6