TCP Search Server Benchmark Report

TCP Search Server Benchmark Report Generated: 2025-04-13 12:35:27

Blyesto

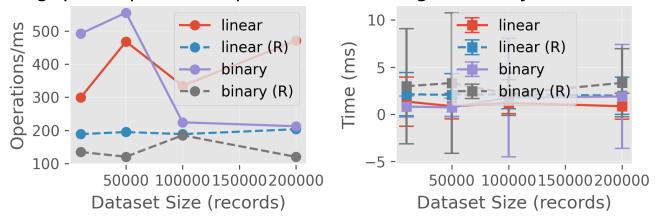
Performance Summary
ALL PERFORMANCE REQUIREMENTS MET

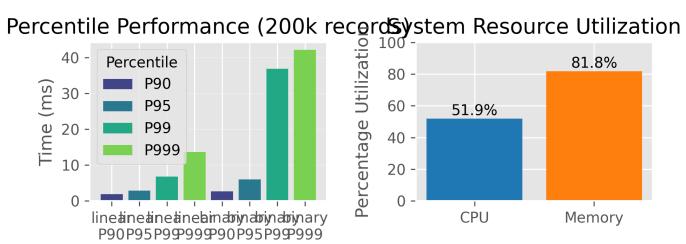
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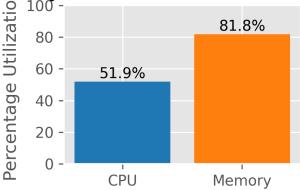
Detailed Validation Resul	16				
Test Case	Status	Details			
LINEAR (reread_off)	PASS	Average: 0.85ms <= 100ms, 99th Percentile: 6.79ms <= 150ms,			
		99.9th Percentile: 13.66ms <= 200ms			
LINEAR (reread_on)	PASS	Average: 1.97ms <= 500ms, 99th Percentile: 8.71ms <= 750ms,			
	•	99.9th Percentile: 12.80ms <= 1000ms			
BINARY (reread_off)	PASS	Average: 1.88ms <= 15ms, 99th Percentile: 36.82ms <= 50ms,			
		99.9th Percentile: 42.15ms <= 70ms			
BINARY (reread_on)	PASS	Average: 3.33ms <= 50ms, 99th Percentile: 18.80ms <= 100ms,			
	•	99.9th Percentile: 38.67ms <= 150ms			

TCP Search Server Benchmark Report Performance Analysis

Throughput (Operations per Millisec Avel) age Latency with Std Dev







TCP Search Server Benchmark Report

Raw Ren	chmarl	mark₁Data , · · · · · · · · · · · · · · · · · ·						
Algorithm	Reread	FileSize	AvgTime	P99	P999	Samples		
linear	False	10000	1.34	15.04	23.01	400		
linear	True	10000	2.12	9.88	14.52	400		
binary	False	10000	0.81	6.20	8.02	400		
binary	True	10000	2.97	41.12	56.26	400		
linear	False	50000	0.85	7.68	12.88	400		
linear	True	50000	2.05	11.49	13.07	400		
binary	False	50000	0.72	5.76	6.91	400		
binary	True	50000	3.31	45.76	78.58	400		
linear	False	100000	1.20	4.92	6.72	400		
linear	True	100000	2.12	7.75	10.59	400		
binary	False	100000	1.78	43.40	61.47	400		
binary	True	100000	2.16	9.94	14.60	400		
linear	False	200000	0.85	6.79	13.66	400		
linear	True	200000	1.97	8.71	12.80	400		
binary	False	200000	1.88	36.82	42.15	400		
binary	True	200000	3.33	18.80	38.67	400		