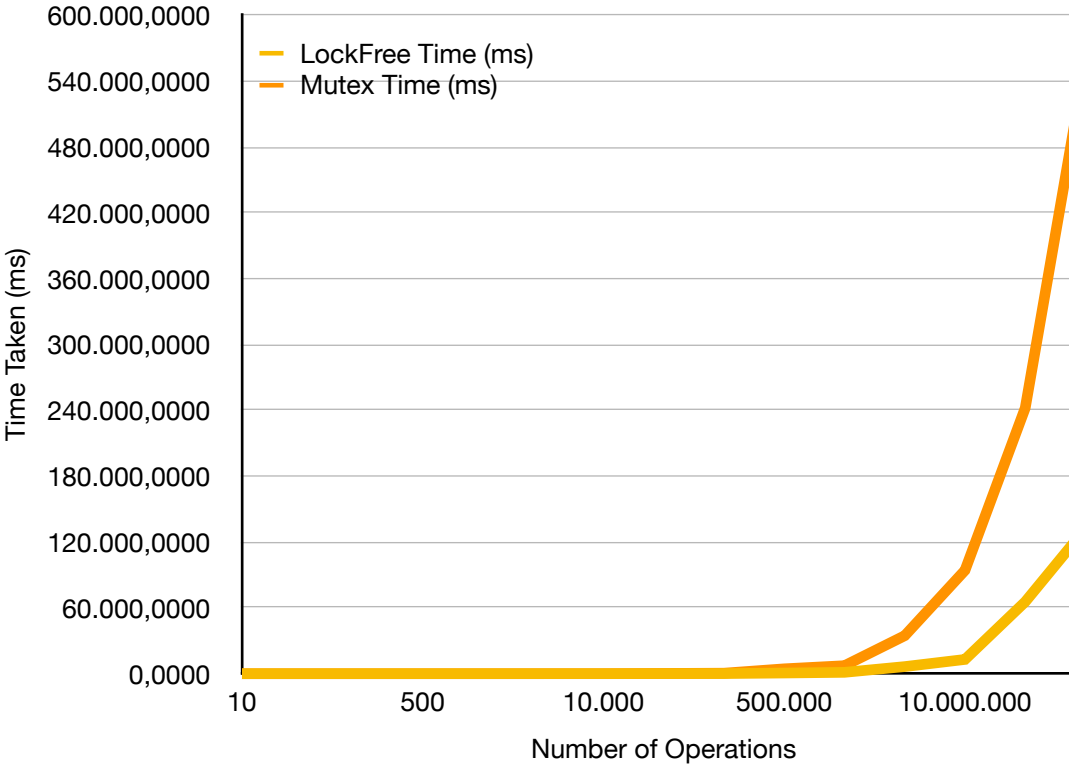


Lockfree vs Mutex Comparison (Threads = 10)

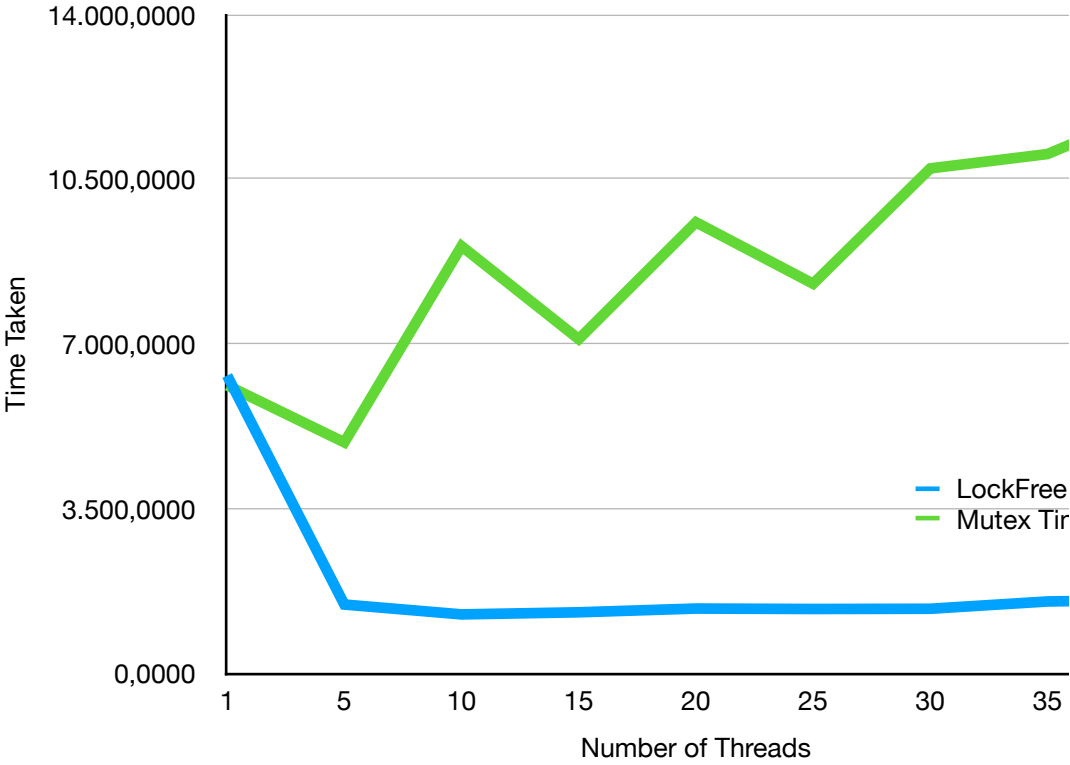
N Operations	LockFree Time (ms)	Mutex Time (ms)
10	0,4490	0,2820
50	0,3654	0,3590
100	0,6930	0,5610
500	3,5700	2,5920
1.000	2,4710	5,2200
5.000	6,3920	23,7840
10.000	13,4260	47,2740
50.000	67,2280	241,1520
100.000	123,0120	481,9380
500.000	627,8400	4.450,6490
1.000.000	1.241,6350	7.309,0700
5.000.000	6.471,8700	34.646,2610
10.000.000	13.004,6230	94.231,0160
50.000.000	65.559,4480	242.234,1120
100.000.000	132.333,0580	558.023,4240

Lock Free Queue vs Mutex Queue



Lockfree vs Mutex Comparison (N\_OP = 1,000,000)

N Threads	LockFree Time (ms)	Mutex Time (ms)
1	6.327,6310	6.119,4400
5	1.459,2200	4.908,4170
10	1.249,5700	9.079,4650
15	1.294,1540	7.103,7900
20	1.373,7830	9.587,9710
25	1.364,7810	8.280,8300
30	1.369,3450	10.733,5780
35	1.524,5470	11.039,1000
40	1.559,9290	12.086,9990



CPU Info:  
Intel(R) Core(TM) i5-8500 CPU @ 3.00GHz  
6 Physical Cores

1

2

Time (ms)  
ne (ms)

3

40