

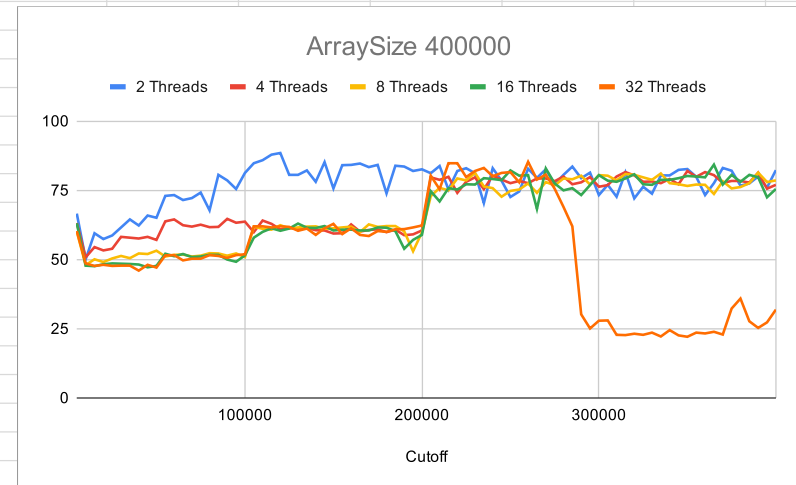
Cutoff	2 Threads	4 Threads	8 Threads	16 Threads	32 Threads
5000	11.7	33.3	33.6	32.1	31.4
10000	15	27	25.6	22.9	24.2
15000	15.6	29.2	25.7	24.4	23.4
20000	12.7	28.1	25.9	23	23.9
25000	12.8	28.1	25.4	25.2	23.4
30000	12.2	31.5	25.5	25.5	25.7
35000	12.6	30.9	25.4	25.7	25.2
40000	13.6	32	25.1	25.5	25.5



	Cutoff	2 Threads	4 Threads	8 Threads	16 Threads	32 Threads	
	5000	66.6	63.2	60.1	63.1	60.3	
	10000	50.1	50.8	48	47.8	48.6	
	15000	59.5	54.5	50.1	47.6	47.7	
	20000	57.4	53.3	49.1	48.3	48.1	
	25000	58.7	53.9	50.4	48.6	47.7	
	30000	61.6	58.2	51.3	48.5	47.8	
	35000	64.5	57.9	50.5	48.4	47.8	
	40000	62.3	57.6	52.2	48.2	46	
	45000	65.9	58.2	52	47.2	48.1	
	50000	65.1	57.1	53.2	47.7	47.1	

55000	73	63.8	51.1	52.1	51.5								
60000	73.3	64.5	51.7	51.2	51.6								
65000	71.5	62.4	51.8	52	49.7								
70000	72.2	61.9	51.1	50.9	50.3								
75000	74.2	62.6	51.4	51.1	50.3								
80000	67.8	61.7	52.3	51.7	51.6								
85000	80.6	61.8	52.2	51.7	51.3								
90000	78.6	64.7	51.4	50	50.6								
95000	75.5	63.3	52.2	49.2	51.6								
100000	81.3	63.7	50.9	51.5	51.9								
105000	84.8	59.9	61.9	57.9	62								
110000	85.9	64.1	61.1	60	62								
115000	87.9	62.9	60.8	61.3	61.6								
120000	88.5	60.9	62.4	60.4	62								
125000	80.6	61.4	61.3	61.2	61.8								
130000	80.6	61	61.6	63	60.4								
135000	82.2	61.4	61.9	61.5	61.2								
140000	78.1	60.6	62	61.4	58.9								
145000	85.2	60.5	61.1	62.1	61.3								
150000	75.7	59.4	61.3	60.5	62.9								
155000	84.1	59.5	61.6	60.8	59.2								
160000	84.2	62.7	61.9	60.8	61.3								
165000	84.7	60.1	59.9	60.5	58.9								
170000	83.4	60.7	62.7	60.5	58.5								
175000	84.2	60.9	61.8	61.6	60.3								
180000	73.9	59.9	62.1	61.5	60								
185000	83.9	60.8	62.1	60.3	60.9								
190000	83.6	58.8	60.2	53.9	61								
195000	82	59.1	53	57.1	61.6								
200000	82.6	60.5	59.8	58.9	62.3								
205000	81.2	79.7	72.9	74.7	80.3								
210000	83.8	78.8	75.9	71	75.4								
215000	75.3	79.9	75	75.8	84.8								
220000	82	74.1	79.3	75.3	84.8								
225000	83	78.1	78.6	77.2	79.8								
230000	81.2	79.7	81.3	77.1	82								
235000	70.4	75.4	76.4	79.4	83.1								
240000	83	80.3	75.8	79.1	80.1								
245000	78.5	78.9	72.7	78.7	81.3								
250000	72.6	77.6	74.8	82.2	81.6								
255000	74.6	78.4	75.3	80.3	77.9								
260000	82.8	77.6	77.5	80.5	85.3								
265000	79.5	79.3	74.1	68.3	78.9								
270000	82.6	79.3	78	82.9	80.7								
275000	77.2	78.3	76.8	77.5	75.6								
280000	80.6	80	79.3	75	69								

Cutoff	2 Threads	4 Threads	8 Threads	16 Threads	32 Threads
5000	64.5	114.1	112.5	117.2	50.1
10000	52.1	102.8	97.5	97.3	51.5
15000	51.4	102.1	99.4	95.2	53.1
20000	51.7	99.8	97.8	95.4	49.9
25000	48.1	100.9	98.2	99.2	77.7
30000	50	109.2	102.1	97.5	95.2
35000	65.9	108.7	100.2	94	95.3
40000	43.6	106.8	97.9	95.7	92.1
45000	47.4	105.5	103	96.2	80.6
50000	46.8	107.5	102.4	98.6	96.6
55000	48.6	119.1	93.5	96.3	95.5
60000	41.9	118.2	105.8	96.3	96.2
65000	49.7	120.6	100.9	94.2	92
70000	43.7	116.1	102.5	96	89.5
75000	42.2	115	92.6	95.5	95.6
80000	49	116.5	102	94.8	90.9
85000	44.7	120.4	104.9	94.4	95.7
90000	57.7	118.2	101.6	95.6	93.4



95000	41.9	118.9	106.1	94.6	99.4								
100000	45.2	119.8	106.6	96	100.7								
105000	47	130.1	104.8	102.2	106.1								
110000	51.1	130.3	104.4	100	104.3								
115000	55.7	126.9	104.7	103.2	103.1								
120000	66.3	128.1	90.6	101	103.3								
125000	61.3	127.9	54.6	104.9	100.9								
130000	59	121.8	75.4	104.6	105.3								
135000	48	122.4	100.3	103.1	105.6								
140000	45.5	124.5	104.6	102.2	106.5								
145000	46.9	123.4	99.1	101.5	106.5								
150000	54.8	122.5	97.7	103.1	106.6								
155000	48.7	125	100.1	101.5	103.2								
160000	55.2	127.2	101.6	100.7	105.7								
165000	62.4	123.8	106.1	103.3	102.8								
170000	63.1	124.3	106.4	102.7	103.5								
175000	54.4	130.6	104.5	104	103.8								
180000	50.8	131	100.8	103.4	104.7								
185000	49	129.4	111	103.9	104.9								
190000	57.5	131	109.3	103.1	104.2								
195000	52.5	126.3	111.7	103.5	104.5								
200000	46.6	125.3	109.7	104	104.3								
205000	64.8	123.8	131.8	120.2	126.4								
210000	56	119.7	133.8	126.8	126.6								
215000	54	124.8	130.2	126.3	125.9								
220000	57.2	126.1	131.6	126.4	119								
225000	53.3	119.8	131	130.3	128.4								
230000	50.3	127.2	128.4	130.9	127.8								
235000	57	127.5	128	126.7	131.5								
240000	63.4	131	130.1	127.4	125.6								
245000	53.5	126.6	129.2	129.5	129								
250000	64.4	129.5	131.5	131.8	128.9								
255000	50.7	127.2	126.3	130.9	128.8								
260000	52.9	130.3	131.5	130.4	129.6								
265000	51.9	130.3	121.4	127.4	129.1								
270000	62	77.3	126.7	124.6	127.9								
275000	58.2	50.4	123.1	127.1	131								
280000	62.7	40.1	119.1	128.3	128.7								
285000	54.5	49.7	115.9	129.7	129.6								
290000	57	48.6	124.6	130	127.3								
295000	57.6	46	125.1	130.2	128.8								
300000	61.1	39.9	119.5	127.9	127.9								
305000	61.7	37.5	126.6	71.8	128								
310000	64.8	38.3	131.5	38.9	131.2								
315000	51.8	37.6	128.2	47.6	127.2								
320000	61.9	39.1	128.2	43.6	130.1								

325000	52.3	37.7	125.1	39.5	130.2								
330000	64	39	127	40.3	127.3								
335000	60.5	46.8	128.5	48.1	121.3								
340000	63.3	38.6	129.4	42.9	118.9								
345000	62.3	36.6	129.5	51.6	128.6								
350000	67.6	42.6	127.5	48.5	126.4								
355000	63.4	39.9	127.6	43.4	125.6								
360000	135.6	45.3	124.7	42.3	123.4								
365000	176.9	41	126.3	43.1	125.2								
370000	170.5	39.6	128.8	48.8	109								
375000	169.7	46.4	128.5	43.2	120.8								
380000	167.2	116.7	126.7	50.6	127.5								
385000	171.5	127.1	127.5	41	124.1								
390000	174.3	128.5	126.3	44.6	124.8								
395000	169.2	133.1	127	39.8	124.6								
400000	177.6	127.6	118.4	47.2	116.6								
405000	163.1	174.1	164.8	99.2	157.4								
410000	167.5	164.9	173.3	172.4	150								
415000	157.9	174.2	165.7	145.3	154.5								
420000	146	168.4	156.8	162.8	154.7								
425000	108.2	165.3	173.2	173.5	160.6								
430000	149	139.8	169	165.7	164.3								
435000	146.6	112.5	175.7	178.5	171								
440000	152.2	161.8	170.9	169.8	168.9								
445000	172	164.5	171.9	179.6	164.6								
450000	171.7	172.6	170	169.6	160.6								
455000	163.2	170.2	172.9	160.3	161.7								
460000	171.7	169.8	165.7	162.8	156.9								
465000	167.1	166.4	169.2	151.8	52.2								
470000	164.7	172	173.4	158.4	52.3								
475000	165.3	163.3	167.1	147.2	50.8								
480000	159.9	166.2	171.9	165.3	49								
485000	168	167	167.7	161.7	47.8								
490000	159.9	160.1	171.3	174.3	63.7								
495000	162.4	160.7	176.7	174.6	55.9								
500000	171.9	163.4	170.5	165.7	52.2								
505000	162.6	161.1	168.3	172	59.9								
510000	155.4	163.2	162.8	173	60.7								
515000	160.5	171.9	160.9	162.9	59.3								
520000	160.6	168.5	160.9	164.8	54.1								
525000	158	170.6	154.7	142.3	55.7								
530000	151.4	146.9	167.1	162.4	60.9								
535000	169.9	138.4	167	167.9	51.3								
540000	159.7	165.3	156.8	157.9	53.4								
545000	167.3	171.6	172.3	163.4	61.8								
550000	172.6	160.6	170.1	157	55.3								

555000	165.8	130.1	167.1	158.6	58.4
560000	169.7	138.4	159	152.6	67.5
565000	160.6	160.8	159.5	166.1	51.8
570000	165.6	158.9	169.4	160.1	61.8
575000	170.6	164.6	170.9	166.8	57.8
580000	172.2	154.6	174.4	168.6	53.5
585000	167.3	161.6	169.6	146.5	49
590000	168.8	166.3	157.7	60.7	51.2
595000	145.8	158.6	157	47.7	61.1
600000	165.7	162.4	159.6	60.6	55.8
605000	153.2	166.5	164.8	61	55.5
610000	166.6	159.8	170.9	61.8	62.1
615000	156.1	165	173.1	72.9	58.7
620000	164.4	163.5	178	55.2	53.6
625000	160.5	154.5	159.6	61.9	61.3
630000	154.7	174.7	163.2	57.6	58.3
635000	170.6	169.7	166.2	59.3	61.8
640000	163.1	172.9	165.7	57.1	55.9
645000	170.4	156.7	173.2	62.2	57.9
650000	170.1	164.9	167.8	61.2	62.1
655000	173.3	157.5	174.9	52.1	60
660000	169.3	161.9	164.5	51.4	59.8
665000	162.6	165.8	164.9	65.1	59.7
670000	167.4	162.5	174	54.1	53.2
675000	154.4	156.9	172.6	62.6	56.4
680000	171.2	160.3	172.6	54.5	52
685000	156.6	160.3	165.6	48.2	56.5
690000	150.9	167.2	159.2	57.1	51.1
695000	163.4	168.4	166.7	56.1	58.1
700000	169.1	172	164.1	62.3	47.1
705000	168.7	160.1	171.3	56.3	61.6
710000	164.4	171.9	173.4	54.7	58
715000	160.2	167.1	167.3	53.3	54.2
720000	157.6	165.6	162	58.4	57.9
725000	171.9	157.7	166.5	52.9	51.8
730000	163.2	147.2	162.1	58.7	50.5
735000	169.1	158.7	162	56	58
740000	167.9	152.2	158.4	60.9	60.8
745000	171.1	159.4	165.3	52.4	58.4
750000	161.4	157.7	158.5	49.3	50.8
755000	160.9	158.5	160.8	53.2	55.7
760000	163.3	156.8	166.7	60.9	66.6
765000	168.2	149.3	156.6	51.6	62.8
770000	150.6	148.1	168.6	58.7	62
775000	165.3	162.5	166.2	57.8	63.3
780000	161.2	157.2	167.8	49.9	57.9

ArraySize 800000

2 Threads 4 Threads 8 Threads 16 Threads 32 Threads

Cutoff

785000	169.1	162.4	166.5	66.6	64.7								
790000	164.4	150.5	169.3	56.8	54.6								
795000	168.1	160.5	167.1	52.1	61.8								
800000	169.6	161.8	166.4	51.3	57.1								