	Elements		Parallel Sort		New Sort				Percent Error	
		Start	End	Total Time	Stats	Buckets	sorterBucket	Total Time	Difference	Percent Less
Compared to Parallel Sort -1	1000	18.63	18.94	0.31	0.00	0.00	0.00	0.01	-0.30	-98.38
	10000	41.99	42.30	0.31	0.00	0.01	0.00	0.02	-0.29	-95.16
	100000	47.43	47.67	0.24	0.01	0.03	0.01	0.05	-0.19	-79.08
	1000000	48.83	49.45	0.62	0.04	0.11	0.01	0.16	-0.46	-74.20
	10000000	44.93	45.41	0.48	0.07	0.15	0.04	0.26	-0.22	-46.57
		Start	End		Start	End				
Compared Parallel Sort -2	1000	41.96	42.16	0.20	42.26	42.28	~~~~	0.02	-0.19	-92.20
	10000	41.16	41.52	0.36	41.52	41.53	~~~~	0.01	-0.35	-97.20
	100000	55.16	55.41	0.25	55.41	55.49	~~~~	0.08	-0.17	-67.33
	1000000	8.08	8.76	0.68	8.76	8.92	~~~~	0.16	-0.52	-75.99
	10000000	7.73	8.99	1.25	8.99	9.53	~~~~	0.54	-0.71	-56.79
	100000000	11.93	17.84	5.91	17.84	20.91	~~~~	3.06	-2.85	-48.23
	1000000000	HEAP ERROR								
Compared to Parallel Sort 3	Elements	Parallel Sort			New Sort			Percent Error		
		Start Time	End Time	Total Time	Start Time	End Time	Total Time	Difference	Percent Less	
	1000	43.47	43.74	0.27	43.74	43.76	0.02	-0.25	-94.42	
	10000	1.99	2.35	0.37	2.35	2.37	0.02	-0.35	-95.66	
	100000	5.21	5.49	0.28	5.49	5.56	0.07	-0.22	-75.70	
	1000000	54.58	55.09	0.51	55.09	55.23	0.13	-0.38	-74.02	
	10000000	42.71	43.95	1.24	43.95	44.42	0.47	-0.77	-62.04	
	100000000	32.07	37.89	5.82		41.28	3.40	-2.43	-41.67	
	1000000000				HEAP I					
	Elements	Merge Sort				New Sort			nt Error	
Compared to Merge Sort 1		Start Time	End Time	Total Time	Start Time	End Time	Total Time	Difference	Percent Less	
	1000	52.93	53.13	0.21	20.23	20.56	0.33	0.12	59.13	
	10000	1.99	2.35	0.37	2.35	2.37	0.02	-0.35	-95.66	
	100000	5.21	5.49	0.28	5.49	5.56	0.07	-0.22	-75.70	
	1000000	54.58	55.09	0.51	55.09	55.23	0.13	-0.38	-74.02	
	10000000	42.71	43.95	1.24	43.95	44.42	0.47	-0.77	-62.04	
	100000000	32.07	37.89	5.82	37.89	41.28	3.40	-2.43	-41.67	
	1000000000				HEAP I	ERROR				

	IAVA Parallel Sort New Sort									
JAVA	Parallel Sort					Percent Faster (%)				
Elements	Trial 1 (s)	Trial 2 (s)	Trial 3 (s)	Average (s)	Trial 1 (s)	Trial 2 (s)	Trial 3 (s)	Average (s)	reicent Paster (%)	
1000	0.31	0.20	0.27	0.26	0.01	0.02	0.02	0.01	95.40	
10000	0.31	0.36	0.37	0.35	0.02	0.01	0.02	0.01	96.04	
100000	0.24	0.25	0.28	0.26	0.05	0.08	0.07	0.07	74.03	
1000000	0.62	0.68	0.51	0.61	0.16	0.16	0.13	0.15	74.82	
10000000	0.48	1.25	1.24	0.99	0.26	0.54	0.47	0.42	57.32	
100000000	5.71	5.91	5.82	5.81	3.31	3.06	3.40	3.26	44.01	
JAVA	Merge Sort - My Own					Percent Faster (%)				
Elements	Trial 1 (s)	Trial 2 (s)	Trial 3 (s)	Average (s)	Trial 1 (s)	Trial 2 (s)	Trial 3 (s)	Average (s)	recent raster (70)	
1000	0.21	0.17	0.30	0.22	0.18	0.20	0.17	0.18	38.51	
10000	0.52	0.17	0.40	0.36	0.17	0.34	0.40	0.31	23.94	
100000	0.19	0.62	0.61	0.47	0.23	0.18	0.23	0.22	64.41	
1000000	1.09	1.28	1.18	1.18	0.22	0.32	0.87	0.47	59.97	
10000000	10.18	10.74	10.01	10.31	0.82	0.69	1.72	1.08	89.25	
100000000	HEAP	HEAP	HEAP	HEAP	2.16	4.53	7.42	4.70	N/A	
JAVA	Bucket Sort - Optimized				New Sort				Percent Faster (%)	
Elements	Trial 1 (s)	Trial 2 (s)	Trial 3 (s)	Average (s)	Trial 1 (s)	Trial 2 (s)	Trial 3 (s)	Average (s)	reicent raster (%)	
1000	0.13	0.33	0.11	0.19	0.11	0.15	0.17	0.14	-33.96	
10000	0.45	0.42	0.40	0.42	0.14	0.16	0.15	0.15	62.68	
100000	0.10	0.10	0.11	0.11	0.14	0.21	0.24	0.20	-83.02	
1000000	0.11	0.12	0.42	0.22	0.19	0.28	0.23	0.23	44.20	
10000000	0.22	0.19	0.18	0.19	0.96	0.43	0.69	0.69	-296.57	
100000000	0.80	0.72	0.69	0.74	2.14	2.06	2.07	2.09	-182.93	