

Performance of PMergeSort from Lecture

P	Time (in secs)	Speedup vs. P=1	Speedup vs. Sequential	Sequential (in secs)
1	17.88	1.00	0.66	11.82
2	9.22	1.94	1.28	
4	4.67	3.83	2.53	
8	2.41	7.42	4.90	
16	1.37	13.05	8.63	
32	1.08	16.56	10.94	
64	0.98	18.32	12.11	

Notes:

1. Times are for `pmergesort.go` using 128 goroutines for $n = 128 \times 10^6$.
2. P is `GOMAXPROCS`, the number of hardware processes used by Go.
3. Sequential sort time was for Go's integer sorting library function.
4. Run on `patty.reed.edu` with its 32 hyperthreaded cores.