Assignment 5: Parallel Sort

Task:

To implement merge sort but sorting the subarrays in parallel and to find out optimal values for cutoff and thread count.

Conclusion:

Unfortunately, my program is not running for arrays with size greater than 100, so, I'm going to mention my limited observations.

For size 100, a cutoff of 32, 64 and greater values seemed to work best. However, we don't have subarrays with size 64 for an array size 100, so the best cutoff seems to be 32.

For size 274, the best cutoff seemed to be 64.

This is surprising since in the Merge Sort lecture, I remember the best cutoff being said to be 7.

Evidence:

Since my program wasn't working for larger sizes, I'd be posting incomplete screenshots.



