# Parallel Sorting

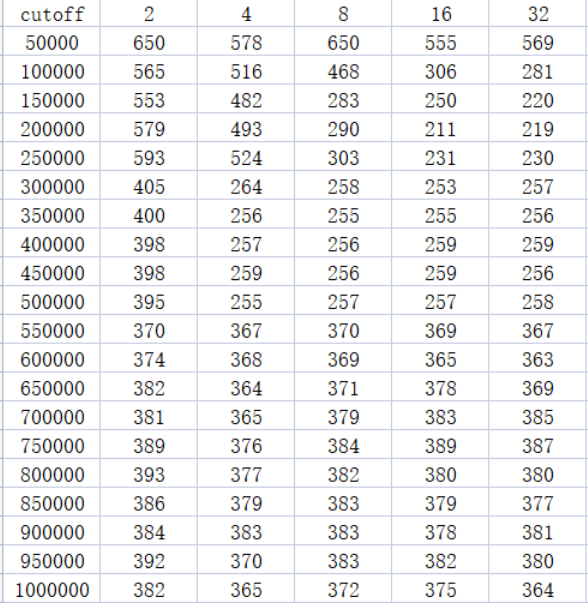
Conclusion：

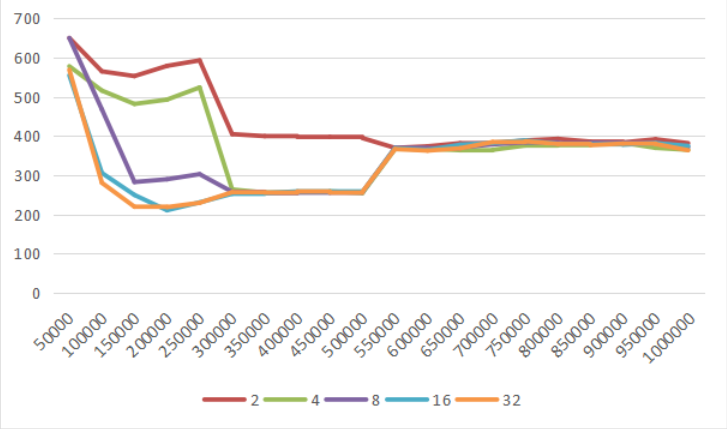
1. A range of cutoff ratio between 0.3 and 0.4 for which parallel sort can be an optimal solution

2. I set different lengths of arrays (1 Million，4Million and 16 Million), threads number ranging from 2 to 32, 16 threads works best.

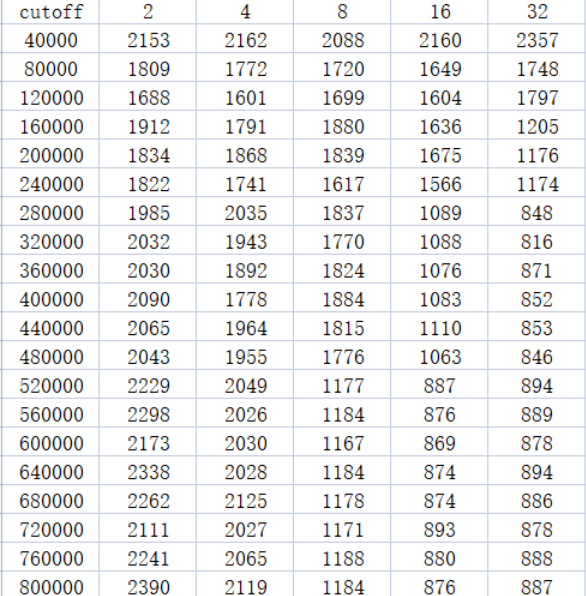
Evidence：

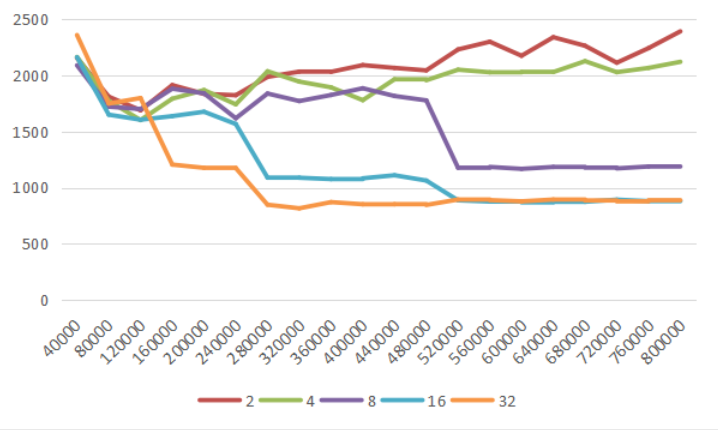
Length of arrays is 1 Million



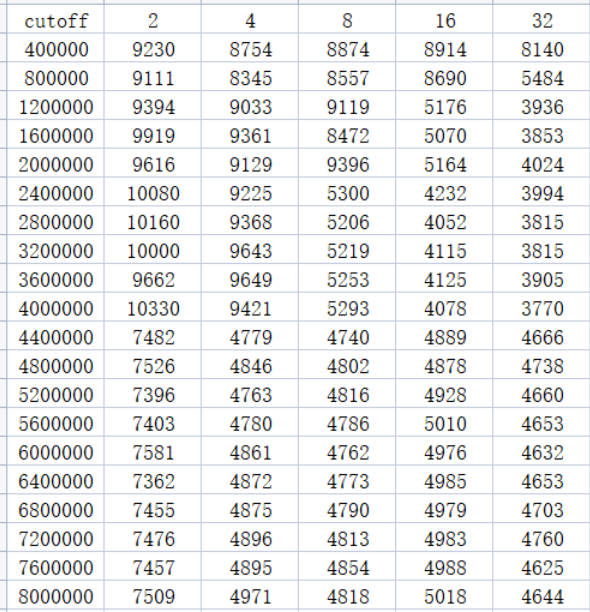


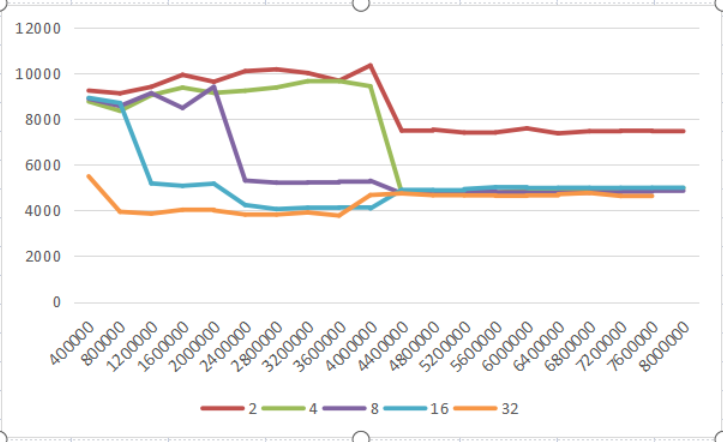
Length of arrays is 4 Million





Length of arrays is 16 Million





Screenshot：

