PROGRAM STRUCTURES & ALGORITHMS

ASSIGNMENT-4 (PARALLEL SORTING)

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TASK:

A cutoff (defaults to, say, 1000) which you will update according to the first argument in the command line when running. It's your job to experiment and come up with a good value for this cutoff. If there are fewer elements to sort than the cutoff, then you should use the system sort instead.

Recursion depth or the number of available threads. Using this determination, you might decide on an ideal number (t) of separate threads (stick to powers of 2) and arrange for that number of partitions to be parallelized (by preventing recursion after the depth of $lg\ t$ is reached)

An appropriate combination of these.

OUTPUT OF THE ARRAY SIZE IS 1000000

HAVE ATTACHED THE SPREADSHEET

OBSERVARTION:

In execution of these tasks, I have observed that all threads are showing the similar pattern. The experiment has been done on the array size which is of 100,10000 and 100000. In Conclusion, we can say that the degree of 6 would give a optimal case which is efficient.

OUTPUT GRAPH:

