

CSCI 322, Homework # 3

1 MPI Parallel Merge Sort

Do problem 3.8 from the text.

2 Results and writeup

Compare the times and efficiencies of on different numbers of processors and on different sizes of arrays.

Write up a discussion of your results, complete with graphs and tables and conclusions, and speculate on why you think you got the results you did. Use your best judgement on what figures to include.

You can use Office or L^AT_EX or any other word processing package you like, but save the final product as PDF.

Also included in your writeup should be instructions for compiling and running your programs; include a discussion of how you got the numbers in your graphs. Any scripts or things you used should be included in your project, and should run on a standard linux distro (they can be shell scripts or python programs or whatever).

3 Extra credit:

Make some meaningful comparisons with bubble sort.

4 Due date

Friday, Feb 28, midnight. On the canvas submission page, submit text with a link to your github project and any other remarks you think I need to read before grading.

Save your writeup in PDF and make sure you add it to your project.