

June 7, 2017

FINAL EXAM

Maximum of an Array Implementation with MPI

Write a parallel program (C or FORTRAN) that finds max of 1-D integer array elements based on MPI (Message Passing Interface) using the following instructions.

Instructions

1. Explain briefly the algorithm that you used, and discuss the effects on results.
2. Consider the domain decomposition and load balancing concepts and discuss how to manage these concepts in your algorithm.
3. Plot a graph showing wall clock time (measure time for parallelized part of code) vs number of processors.
4. Discuss the results obtained.

DUE DATE: June 11, 2017

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