COP4338

Fall 2016

Caryl Rahn

Lab 7

Write a program, ringtime which calculates the time it takes to send an array of 10000 double precision values through each process in a ring.

Process 0 sends 10000 double precision values to process 1, which passes them to process 2, and so on, until process P-1 sends them back to process 0. The time for this transmission is recorded. To make it simple fill the array with the number corresponding to its index. (For example: Array[10] = 10;)

Show screenshots running the program with 2, 4, & 8 processors.

Please follow the following instructions carefully before submitting your work:

Create a directory for this homework, call it FirstnameLastnameL7. Under this directory, you put your source code, screenshots, and the Makefile.

Before submission, make sure you clean up the directories so that no miscellaneous files are kept around in the submission. (Grade would be deducted if useless files are found in the homework directories.)

The file to be submitted should be named as 'FirstnameLastnameL7.zip and submitted in Moodle.

NOTE THAT ALL HOMEWORK IS INDIVIDUAL WORK. NO CODE SHARING AND CO-DEVELOPMENT IS EVER ALLOWED. REFER TO CODE OF CONDUCT STATED IN SYLLABUS. ZERO TOLERANCE FOR ETHIC VIOLATIONS IN THIS COURSE.

Due 12/3/16