CSCI 3300/5300, Spring 2019

Semester Project Presentation

May 3, 2019 is the official end of sprint 3. All teams will demonstrate what they have accomplished for the team project this semester. Project presentation is one of the deliverables for sprint 3. Five teams will present on May 3 and four teams will present on May 6.

The purpose of the project presentation is to demonstrate what your team accomplished in the three sprints. The presentation should last between 8 and 10 minutes and include the following topics in the order of your choosing:

1. **Demo of sprint 3**. Run your application with two supported input files:
    a. Rates in messages per second (listed once per minute)
    b. Rates in messages per microsecond (listed once per microsecond).
    You do not need to simulate the entire day of data. A small subset of data is sufficient.
2. **Latency discussion:** Discussion of how latency changes when more processors are added. For example, suppose you have one processor that can process one message in 10 microseconds versus two processors in "assembly line", each processing one message in 5 microseconds (note that two processors spending 5 microseconds per message add up to a total processing time of 10 microseconds, so the total processing speed of the two configurations is the same). Which configuration do we expect to have a lower latency? Support your discussion with data from your simulation.
3. **System test results:** You do not need to run the tests during the presentation. Instead, present the test cases you created along with expected output and show what your simulation produced as the actual output for those test cases. If the actual and expected don't match, present possible explanations of why they do not match.

Grading Rubric

Your presentation grade will be calculated using the following criteria:

	Question	Yes/No
Demo	Did the demo include both types of input files: data in messages per second (once a minute) and data in messages per microsecond (once per microsecond)?	
	Did the application run to completion?	
	Did the demo how the user can specify input parameters: number of processors and their speeds, input data, buffer size (if buffer size is used)?	
Latency Discussion	Did the presentation compare two simulation configurations: one processor versus multiple assembly line processors (with the total speed of the two configurations being the same)?	
	Did the presentation show results of running the same input data via the two configurations?	
	Did the presentation include data on how the latency of the two configurations differs?	
System Test Results	Were system test results presented with expected versus actual values?	
	Were the following test cases included:	
	test case with constant input rate > processing unit rate	
	test case with constant input rate < processing unit rate	
	test case with constant input rate == processing unit rate	
	test case with increasing input rate	
	test case with decreasing input rate	
	Did expected results match actual results?	
	If the expected did not match actual, was a possible explanation included?	
General	Were all team members in class for the presentation?	
Total	Number of "yes" answers	/15
Points	Number of "yes" answers/3	