

# CSCI 53700 – Fall 2016

## Assignment Number 4

**Due Date: December 2, 2016**

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This assignment is intended to re-enforce the principles of remote method invocations using the Java-RMI model of distributed-object computing. You have to re-implement the first assignment using Java-RMI. Run the distributed system for a substantial period of time. Periodically (and at the end of the execution) compare the values of the logical clocks of POs. Print out the clock drifts for all POs. Vary the values of probabilities (used for inter-PO communication) and re-execute the system. Analyze the results (as reflected by the values of logical clocks and clock drifts) as a function of these probabilities. Also, compare the trends of the results with those obtained in the first assignment.

Please employ good software engineering principles in your design and implementation. You can reuse any code from your first assignment. Provide adequate documentation of your programs. Create a *makefile* for your program. Submit all the source files (including the readme, input/output and make files) by using *submitd* command on Pegasus. Your system should run on the CS cluster that has been allocated to us (used for the second and the third assignments).