Parallel and Distributed Systems Group (PDS)
Department Software and Computer Technology
Faculty EEMCS
DELFT UNIVERSITY OF TECHNOLOGY

LAB EXERCISES DISTRIBUTED ALGORITHMS (IN4150)

Exercise 1c
Implementation of total ordering
of broadcast messages in Java/RMI

D.H.J. Epema

January 31, 2012

1 Assignment

Implement Algorithm 3.18 of the lecture notes for total ordering of broadcast messages with Java/RMI. The implemented program should be **truly distributed** in that the it can be demonstrated to run across multiple physical machines.

The assignment can be split up into the following two parts.

First day

Implement the algorithm itself. Incorporate random delays before processes send a message.

Second day

Design a few test cases for the algorithm. Implement a program that records all message-receive events on a per-process basis in separate files, and that checks that the algorithm works correctly.