

Assignment 2

Send your answers to pitoura@cs.uoi.gr no later than Monday 17/3

1. (In groups of 5!)

Each group selects one of the following example implementations of a communication model

UNIX RPC
Java RMI

Implement the following client/server voting application that supports the following two remote methods:

vote: with two parameters through which the client supplies the name of a candidate (a string) and the voter's number (an integer used to ensure each user votes once only). The voter's numbers are allocated sparsely from the range of integers to make them hard to guess.

result: with two parameters through which the server supplies the client with the name of a candidate and the number of votes for that candidate.

Prepare a short presentation of the model and your application to be presented in class. Send a very short manual of RPC or RMI respectively, the documentation and source code of your application and the slides of your presentation.

2. (In groups of 2) Problems from the Tanenbaum and van Steen book, chapter 2: 3, 6, 8, 9, 15, 22, 24, and 26