# Distributed Systems Practical Work

M2 MOSIG

2014-2015

## Task 1

Design and implement a uniform reliable broadcast protocol

- Assumptions:
  - Fixed known set of processes
  - Crash faults
  - Reliable links
  - Perfect failure detector (you need to implement it)
- Language: Java

## Task 2

- Evaluate the performance of your protocol
  - Use 4 computers located in the same Ensimag classroom
  - Assess the throughput with one sender when varying the message size
  - Assess the throughput with 10kB messages when varying the number of senders
- Optional: assess the behavior of the protocol under faults

## Task 3

- Write a report
  - Pseudo-code of your protocol
  - Sketch of the proof
  - Description of your implementation
  - Performance evaluation

#### Misc.

- No lectures on
  - December 05
  - December 12

- Report to be sent by email on December 18
- Defenses on December 19
  - 10 minutes per student (can include a demo if you want)