## Exercise Session 6 Non-Blocking Atomic Commit

November 8, 2010

## Problem 1

Devise two algorithms that, without consensus, implement weaker specifications of NBAC by replacing the termination property with the following ones:

- weak termination: let  $p_i$  be some process; if  $p_i$  does not crash then all correct processes eventually decide;
- very weak termination: if no process crashes, then all processes decide.

## Problem 2

Can we implement NBAC with the eventually perfect failure detector  $\diamond P$  if we assume that at least one process can crash? What if we consider a weaker specification of NBAC where the agreement property is not required?