

## 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.

Look at the solution to Exercise 6.13 (page 324 of the new book).

### 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?

Look at the solution to Exercise 6.14 (page 324 of the new book).