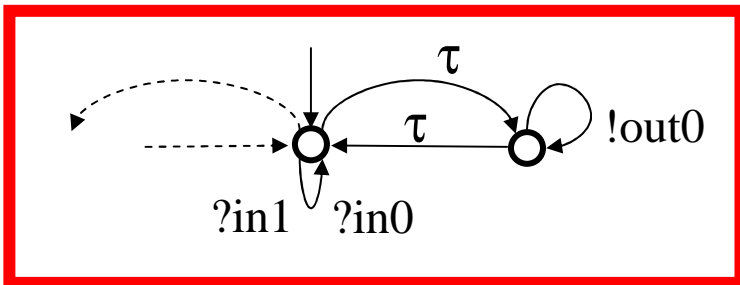
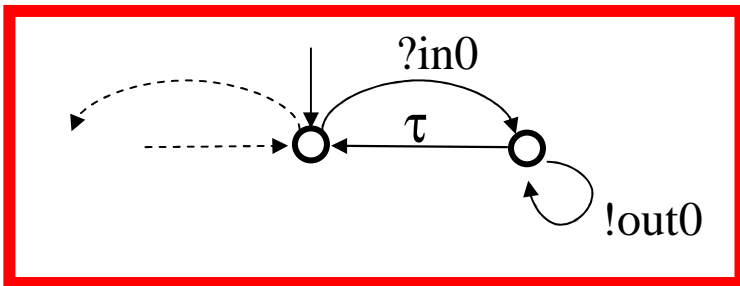
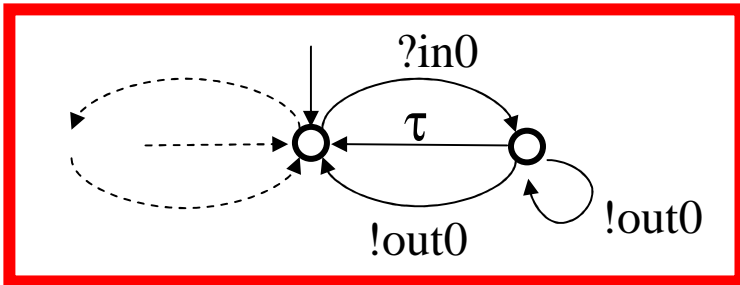


## Example: Alternated Bit Protocol (3)

*Channels that loose and duplicate messages (in0 and in1) but preserve their order ?*

- Exercise :
  - 1) Draw an LTS describing the loosy channel behaviour
  - 2) Write the same description in CCS

# Exercice 2 : Bisimulations



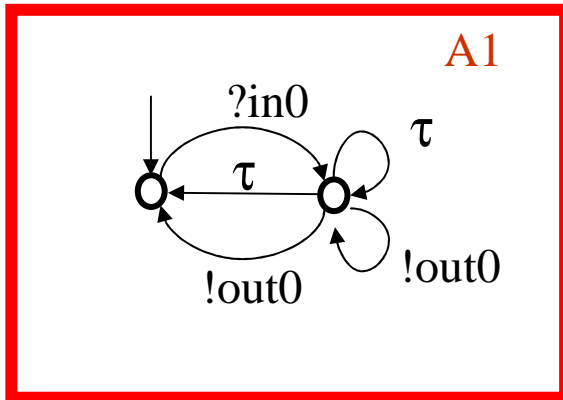
*Are those 3 LTSs equivalent by:*

*- Strong bisimulation?*

*- Weak bisimulation ?*

*In each case, give a proof.*

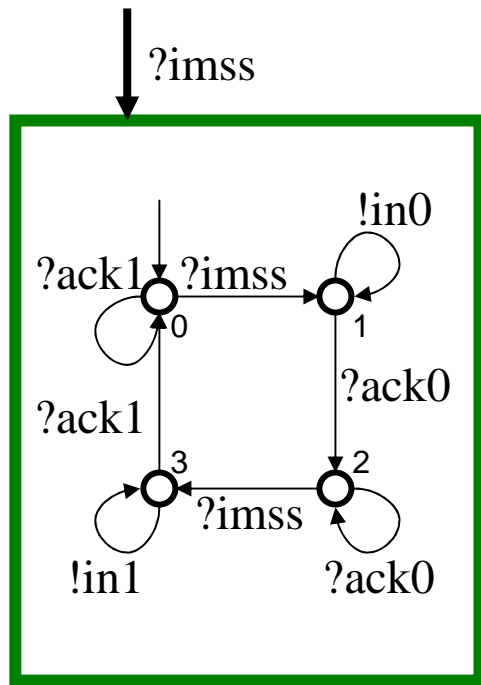
# Exercice 3 : Bisimulation



- **Exercice :**
  - 1) Compute the strong minimal automaton for A1.
  - 2) Compute the weak minimal automaton for A1.

# Exercice 4 : Produit synchronisé

*Compute the synchronized product of the LTS representing the ABP emitter with the (forward) Channel:*



local {in0, in1} in  
(Emitter || Channel)

