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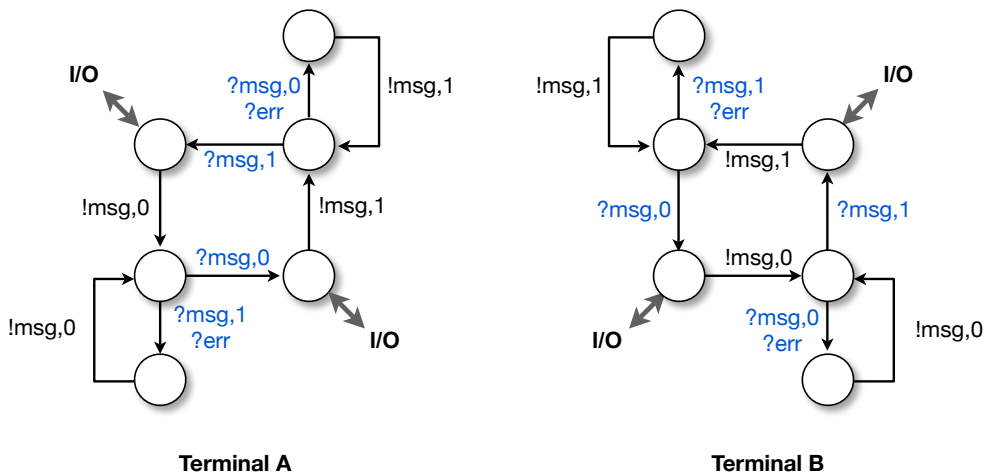University of Freiburg, Germany

Exercise No. 2

May 15, 2009

Task 1 *UML diagrams*

Give a specification of the alternating bit protocol (see state machine below) in UML using an appropriate diagram type. In which state does the protocol start? Give an example for a message exchange between two terminals and present it in UML.

Task 2 *Alternating Bit Protocol*

Prove that the alternating bit protocol works correctly, i.e. no message is lost and there are no duplicates.

State machine diagram for the alternating bit protocol (cf. notes on exercise 1).