Homework Assignment 3, Part b

Due: Thursday, October 18, 2001

Reading:

Chapter 15

Basic Problems:

1. Exercise 15.35.

Regular Problems:

2. Give a formal description of the "duplicating channel" D discussed in class (which adds Boolean tags) as a simple I/O automaton. In terms of your description, prove that this channel implements a a FIFO reliable channel A, in the sense that $traces(D) \subseteq traces(A)$. Use a simulation relation.

3. Exercise 15.33.