CSC 404 - ACTIVITY/PROJECT 4 - NAME:

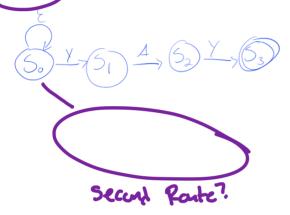
Chris Glanzer

Problem 1. In what follows, try to take advantage of nondeterminism and epsilon transitions as much as possible.

a. Construct a finite-state automaton that recognizes the set of all bit strings that that begin with a 1 and every other position is a 1 (e.g., 101110).



b. Construct a finite-state automaton that recognizes the set of strings over the alphabet {a,b,...,z} that end with yay or woo.



c. Construct a finite-state automaton that recognizes the set of all bit strings such that there are two 0s separated by a number of positions that is a multiple of 4. Note that 0 is an allowable multiple of 4. For example,

