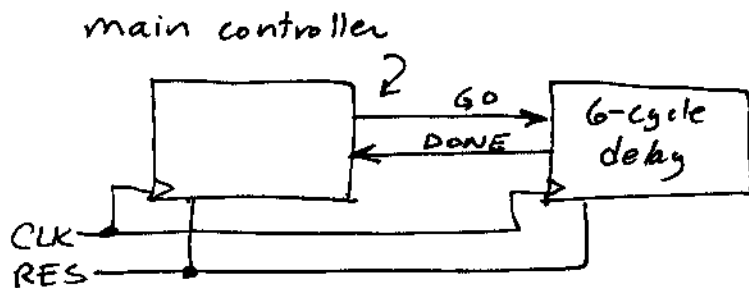
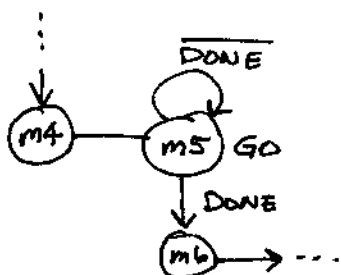


PROBLEM 1 : You are given the following information for a handshaking design:



"GO" & "DONE" are active high

portion of main controller state transition diagram:



note that "GO" signal is generated in the same state as the wait for "DONE"

(a) Design the state transition diagram for the "6-cycle ~~dead~~ delay" device that will make the main controller stay in state "m5" for exactly six cycles.

(b) Draw the complete timing diagram that shows the handshaking signals as well as the states of the controller & 6-cycle delay.

PROBLEM 2 : Wakerly 8.20 (read 8.9.1-8.9.4)