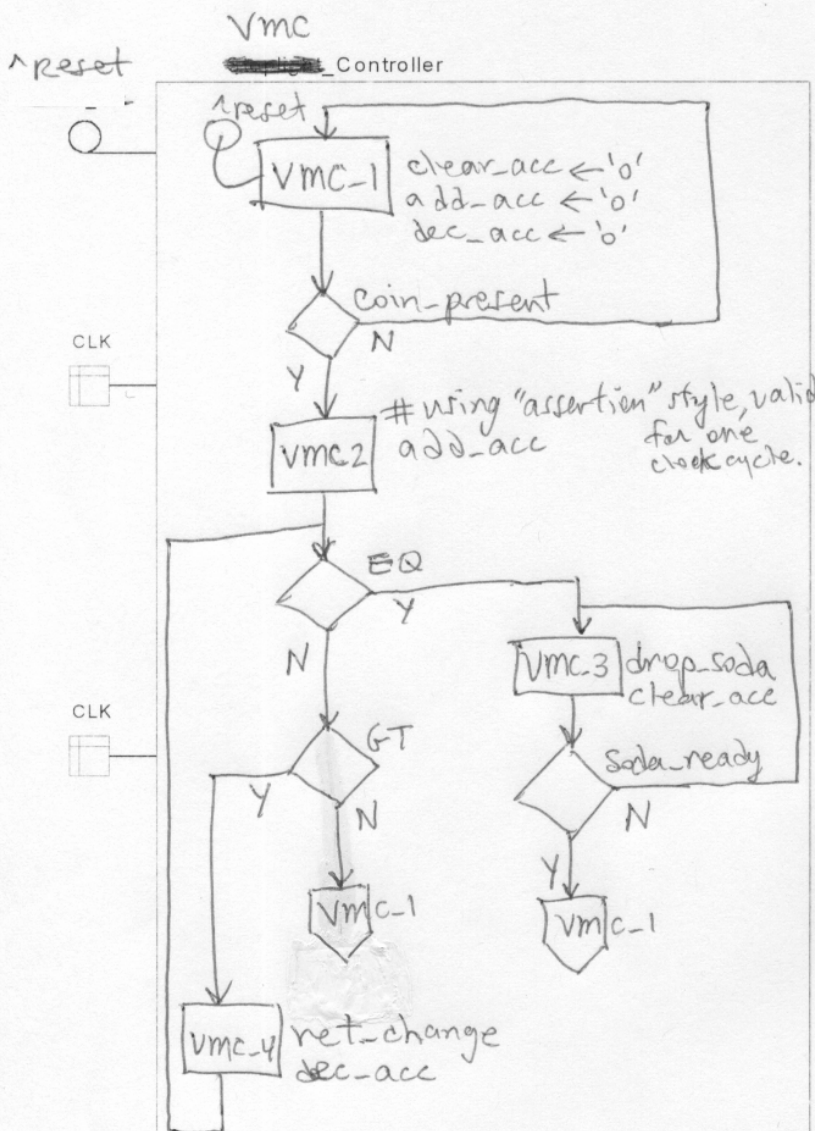


# Vending Machine Controller:



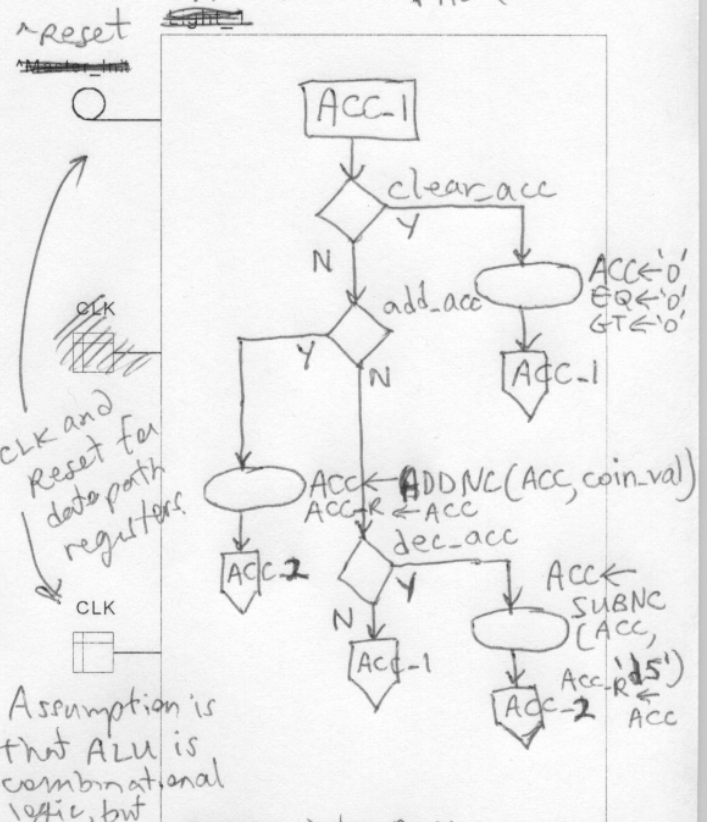
The timing is pretty tight on this version, since the ALU is a combinational logic circuit, and we define the vmc thread to be a Moore machine -- everything is gated with the clock.

We assume the clock speed is sufficiently faster than a human can drop coins into the Coin Receiver unit, but not too fast where we can't control electromechanical parts in other blocks of the Drink machine.

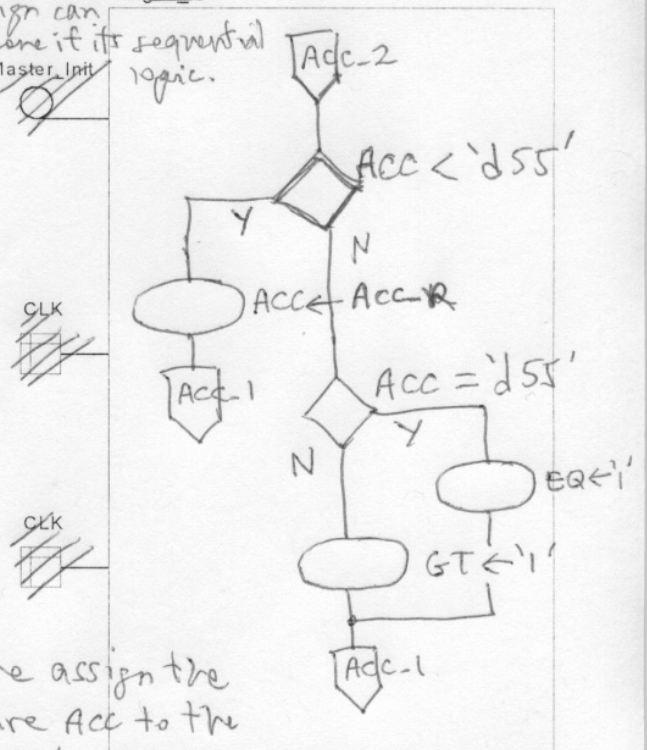
CSC 491 (Fall 2003) - Dr. James P. Davis

Bus	Element	Size	Type	Def. Val.
Acc	wire	8	Bin.	0
Acc-R	register	8	Bin.	0

Accumulator/ALU



Accumulator/ALU



We assign the wire Acc to the register Acc-R, then, if we don't yet have 55¢ deposited, we assign the register back to the wire, which would happen on next clock, i.e. next pass.