

Part 1: Pins

Inputs	Outputs	Control Input
address[0..5]	state[0..?] ramChange(Str) PC[0..?] currAdd[0..5] acc[0..7] carry status(Str)	opCode[0..1] dispCode[0..1] clk

dispCode is an idea that I've got that decides what, if any, info will be shown to the user (ex: PC or acc & carry or ramChange or status)

status is meant to be a string showing all the listed outputs (acc,state, PC, carry, currAdd)

Part 2: General Scenarios of I/O

Scenario -

Given: opCode = [0,1], address = [0,0,0,1,0,0], clk 0->1, dispCode = [0, 0]

Output:

- This would trigger the value at the address 0x04 to be added to the accumulator
- Both acc and carry would be updated and if dispCode is used, this [0,0,0] code could be used to give the full status of each output

Scenario -

Given: opCode = [1,1], address = [1,0,0,0,0,1], clk 0->1, dispCode = [0, 1]

Output:

- This would trigger a jump command to location 33 if carry is currently 0.
- It would then set carry to 0 if it was not before.
- This dispCode could be use to display the resulting PC