

Student Name: İrem Zeynep Alagöz

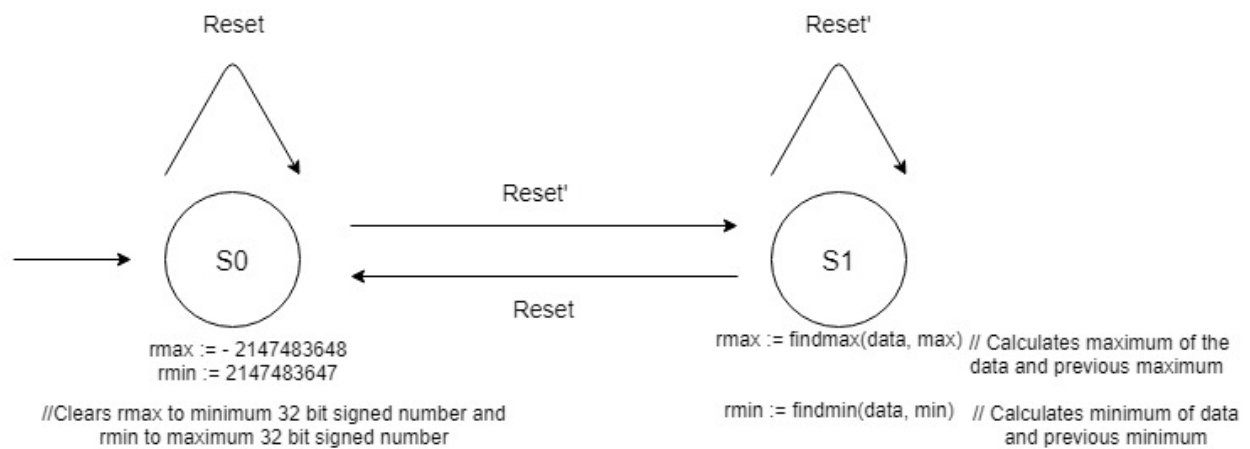
Student ID: 2018400063

CMPE 240 Experiment 6 Preliminary Work

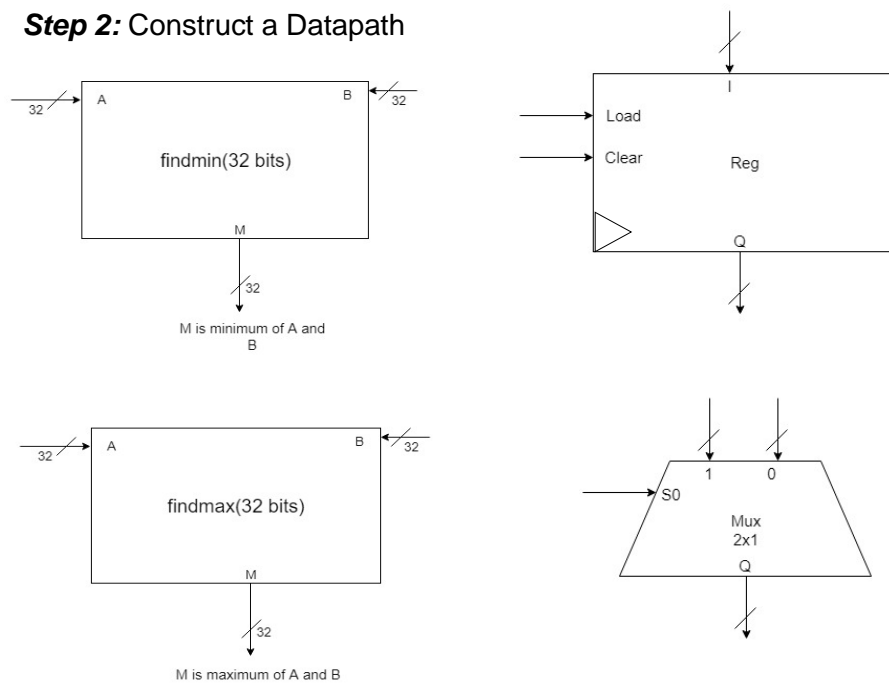
Reset keyword is used instead of rst.

Step 1: Capture a High Level State Machine

Input: Reset (1 bit), data (32 bits signed number)
Output: max (32 bits signed number), min (32 bits signed number)
Local storage: rmax (32 bits reg), rmin (32 bits reg)



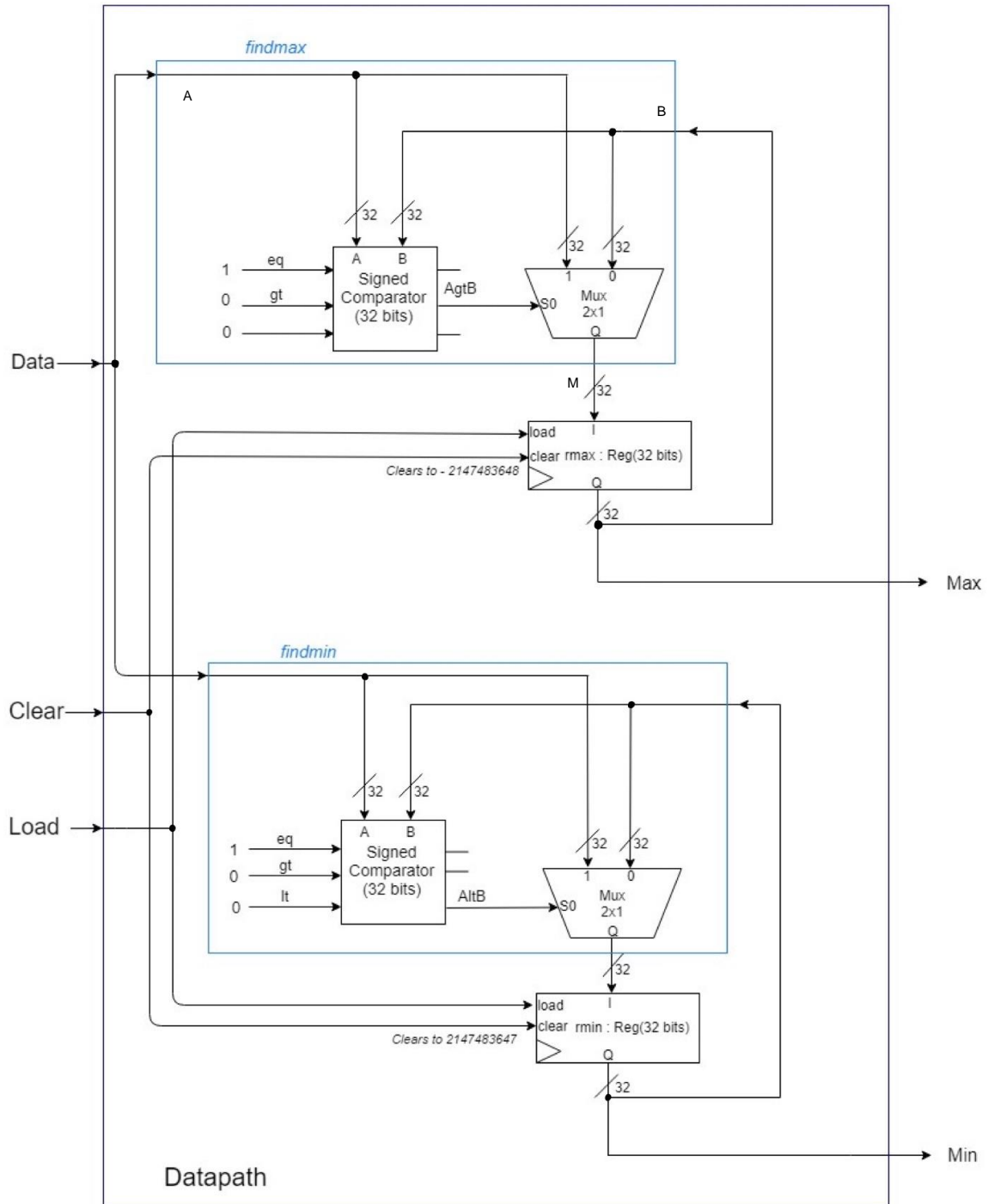
Step 2: Construct a Datapath



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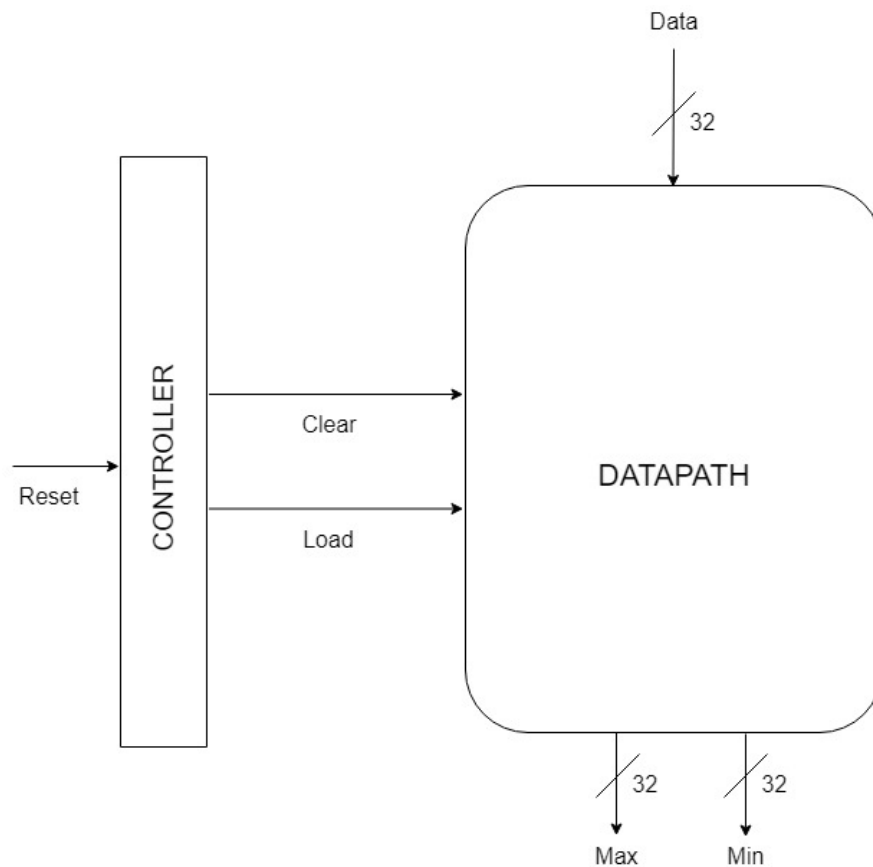
Detailed explanations of findmin and findmax components are showed.



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Step 3: Connect the Dataptah to a Controller



Step 4: Derive Controller FSM

