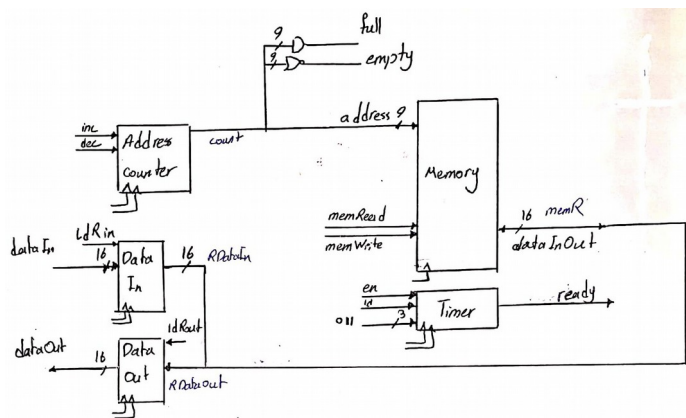# Computer Assignment #4- RTL And BFM in SystemC

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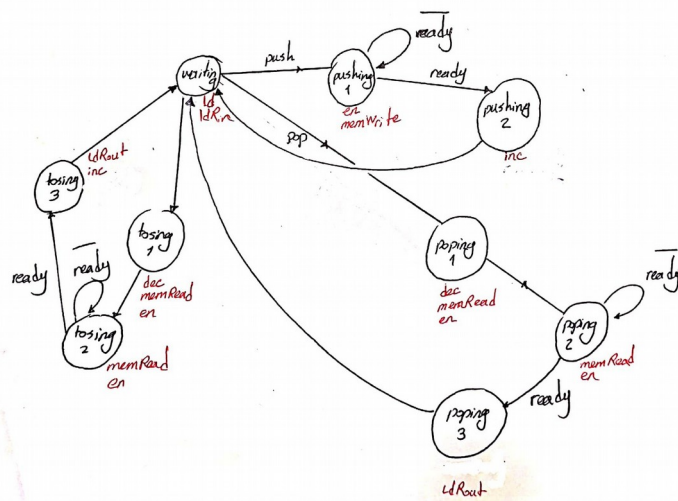
In this assignment, a stackhandler is designed in structural and functional mode and results are compared.

stack_handler:

It consists of datapath and controller modules. They are instansiated here. Datapath has wait_state_timer, 2 registers, a counter and a memory, like below:

And controller is like below:

functional_stack_handler:

It has a waite_state_timer designed functionally and interface with memory of previous part. It does exactly the same job.

The results are like below: