EE552 Homework 6 (dual clock FIFO)

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Objective

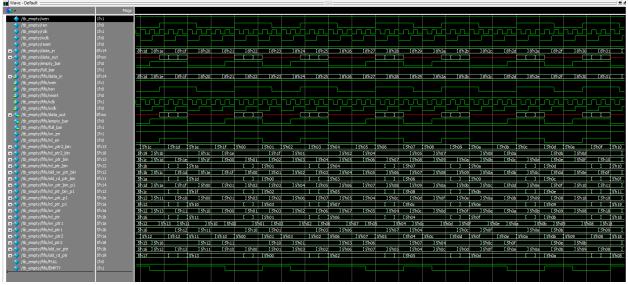
To design a dual clock FIFO with following features:

- 1) Use two Flip Flop synchronizer for rd_ptr and wr_ptr
- 2) Use gray code counter to implement the write/read pointer.
- 3) A dual_clk_FIFO 32 location 8 bit wide.

Simulations

cases:

1. 500Mhz for the reader side and 200Mhz for the writer side.



2. 100Mhz for the reader side and 400MHz for the writer side

