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ECE 6213

Project 7: Cross Domain Crossing

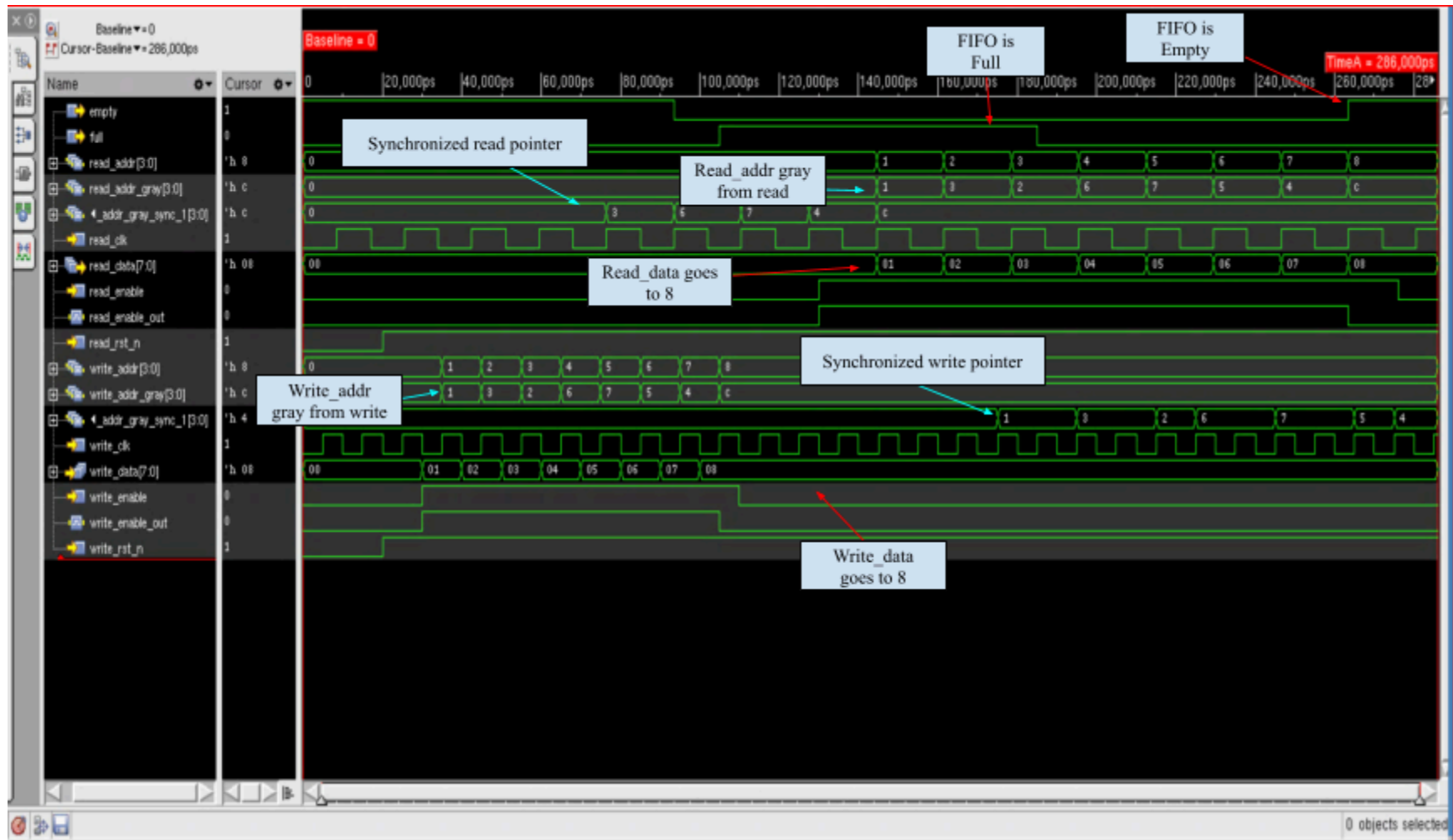
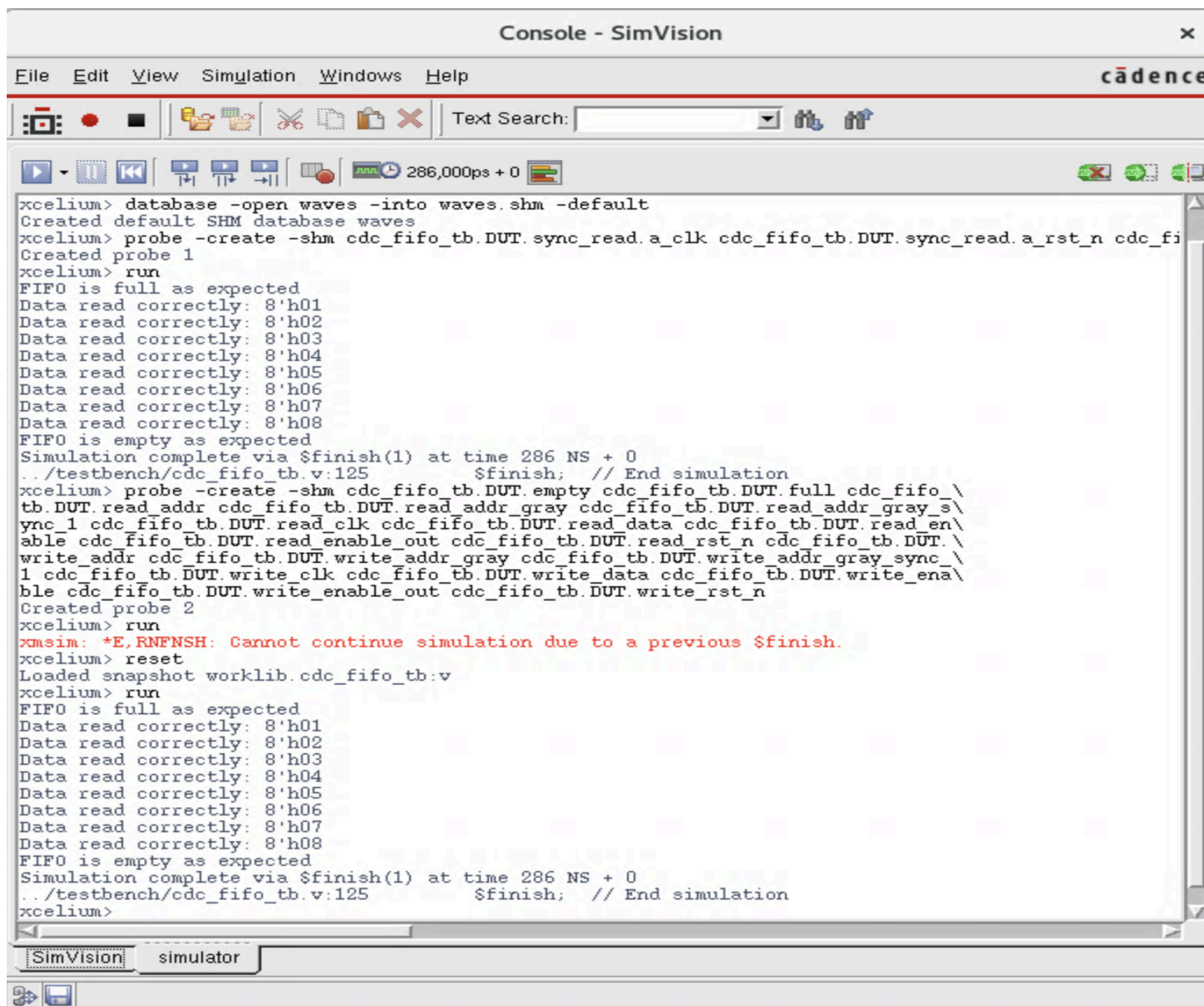


Figure 1 - Waveform Simulation





**Figure 2 - Simulation Log for Test Cases**



Figure 3 - Back Annotated Waveform Simulation

## Console - SimVision



File Edit View Simulation Windows Help

cadence



Text Search:



```
xcelium>
xcelium> source /apps/vlsi_2018/cadence/XCELIUM1710/tools/xcelium/files/xmsimrc
xcelium> database -open waves -into waves.shm -default
Created default SHM database waves
xcelium> probe -create -shm cdc_fifo_syn_tb.fifo_empty cdc_fifo_syn_tb.fifo_full cdc_fifo_syn_tb.read_
Created probe 1
xcelium> run
FIFO is full as expected
Data read correctly: 8'h01
Data read correctly: 8'h02
Data read correctly: 8'h03
Data read correctly: 8'h04
Data read correctly: 8'h05
Data read correctly: 8'h06
Data read correctly: 8'h07
Data read correctly: 8'h08
FIFO is empty as expected
Simulation complete via $finish(1) at time 286 NS + 0
../testbench/cdc_fifo_syn_tb.v:136 $finish; // End simulation
xcelium> |
```

SimVision

simulator

**Figure 4 - Back Annotated Simulation Log for Test Cases**