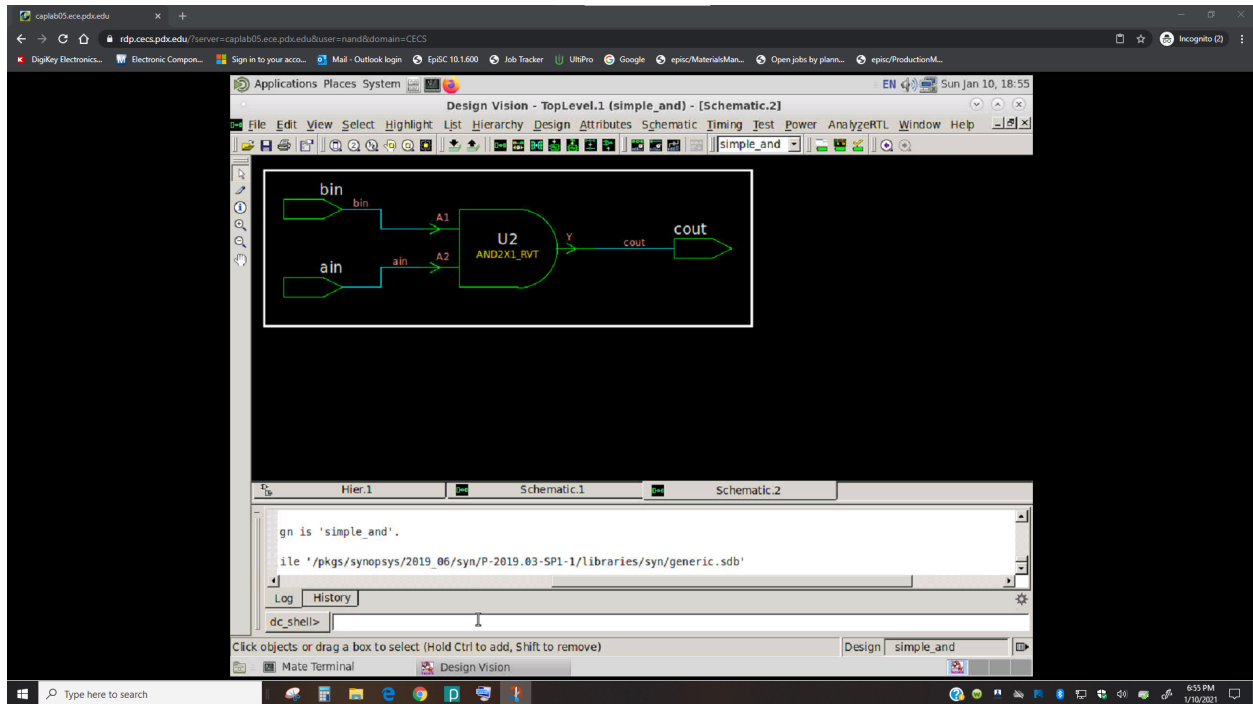


ASIC MODELING AND SYNTHESIS ECE - 4/581 Winter 2021

HW_Lab1

Ryan Nand
1/10/2021

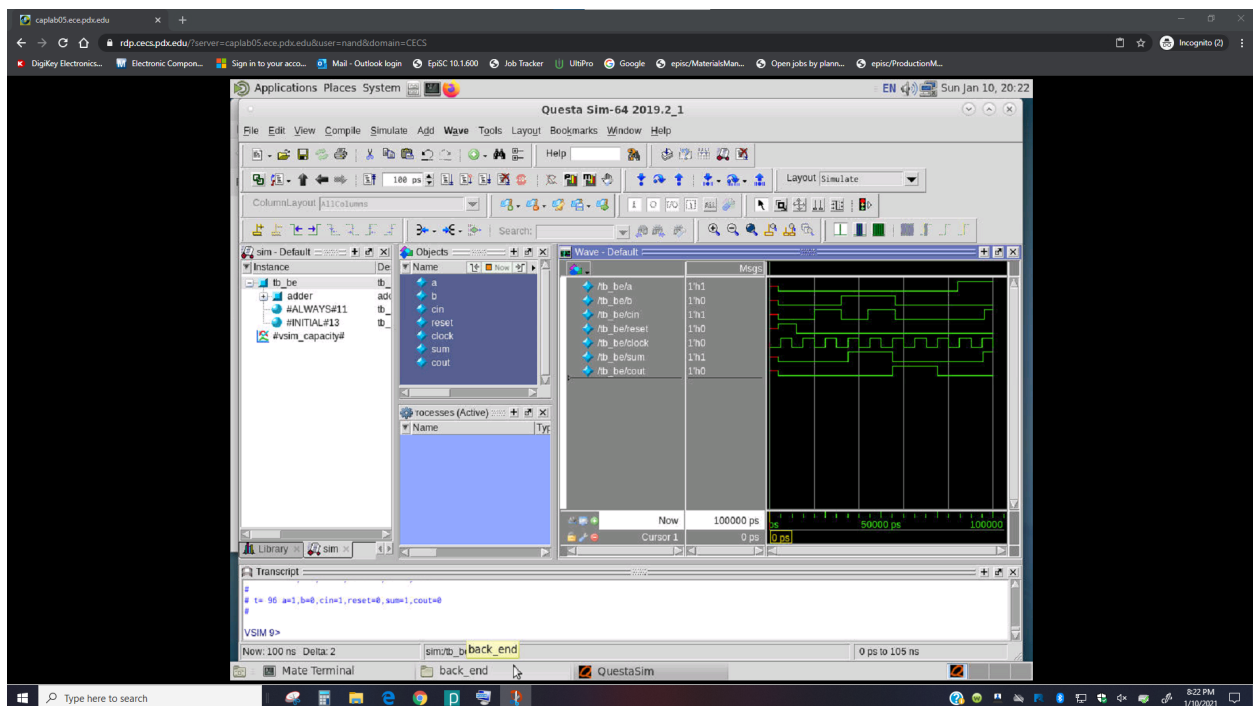
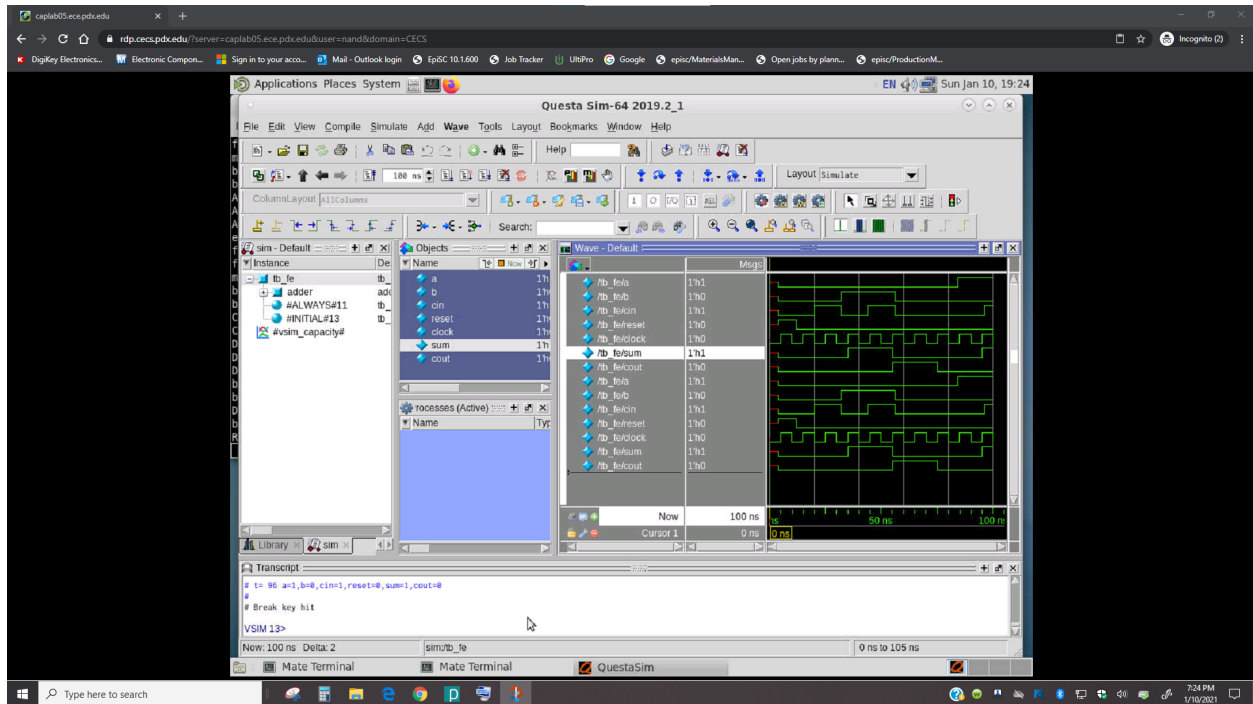
Synthesis using Design Compiler



The screenshot shows the Design Compiler Mate Terminal window displaying the output of the 'report_timing' command. The output includes the following information:

```
Writing verilog file '/u/nand/ECE581-W2020/FIFO/syn/work/simple_and_netlist.v'.  
1  
dc_shell> report_timing  
  
*****  
Report : timing  
-path full  
-delay max  
-max_paths 1  
Design : simple_and  
Version: P-2019.03-SP1-1  
Date : Sun Jan 10 19:01:02 2021  
*****  
  
Operating Conditions: ss0p75v125c Library: saed32lvt_ss0p75v125c  
Wire Load Model Mode: enclosed  
  
Startpoint: ain (input port)  
Endpoint: cout (output port)  
Path Group: (none)  
Path Type: max  
  
Des/clust/Port Wire Load Model Library  
-----  
simple_and ForQA saed32lvt_ss0p75v125c  
  
Point Incr Path  
-----  
input external delay 0.00 0.00 r  
ain (in) 0.00 0.00 r  
U2/Y (AND2X1_RVT) 0.07 0.07 r  
cout (out) 0.00 0.07 r  
data arrival time 0.07  
-----  
(Path is unconstrained)  
  
1  
dc_shell>
```

Questa Sim FE and BE (I accidentally added two FE waveforms in one plot)



Cadence Conformal

caplab05.ece.pdx.edu

rdp.cecs.pdx.edu / server=caplab05.ece.pdx.edu/user=nand8domain=CECS

DigKey Electronics... Electronic Compon... Sign in to your acco... Mail - Outlook login Epi6C 10.1600 Job Tracker UltraPro Google episc/MaterialsMan... Open jobs by plans... episc/ProductionM...

Applications Places System

Computer

nand's Home

Trash

File Edit

// Check
bash-4.2\$
bash-4.2\$

Copyr1

This prog
Cadence D
in a lice

// Warnin
m.

// Check
// Check
// Check
// Check
// Check
// Check
// Check

Encounter(R) Conformal(R) Logic Equivalence Checking

File Setup Report Run Tools Custom Preferences Window Help

cadence

Setup LEC

Golden Revised

adder

7 primitives

dff_a(dff)

dff_b(dff)

dff_cin(dff)

dff_cout(dff)

dff_sum(dff)

adder

3 library cells

dff_a(dff_0)

dff_b(dff_4)

dff_cin(dff_3)

dff_cout(dff_2)

dff_sum(dff_1)

Mapped points: SYSTEM class

Mapped points	FI	PO	DFF	Total
Golden	5	2	5	12
Revised	5	2	5	12

LEC> add compared points -all
// Command: add compared points -all
// 7 compared points added to compare list
LEC> compare
// Command: compare

Compared points	PO	DFF	Total
Equivalent	2	5	7

LEC>

Compare done!

100% completed

Mate Terminal

Encounter(R) Conform...

Type here to search

9:10 PM
1/10/2021