

PROJECT 1: ECE 6140 Due date September 29th , 2023

For the four circuits:

s27.txt

s298f_2.txt

s344f_2.txt

s349f_2.txt

You are to develop a circuit simulator and test it with the following inputs for each circuit:

s27.txt

1110101

0001010

1010101

0110111

1010001

s298f_2.txt

101010101010101

01011110000000111

11111000001111000

11100001110001100

01111011110000000

s344f_2.txt

101010101010101111111

010111100000001110000000

11111000001111000111111

111000011100011000000000

01111011110000000111111

s349f_2.txt

101010101010101011111111

010111100000001110000000

111110000011110001111111

111000011100011000000000

011110111100000001111111

Your report is to contain:

1. Cover sheet ({Last name, First name} GT id etc.)
2. One-page description of the data structures you used to implement your simulator (max)
3. A one-page description of your simulation algorithm in flow diagram form or pseudo-code.
4. For each circuit simulated, the inputs and outputs in vector form entered into a table (neatly)