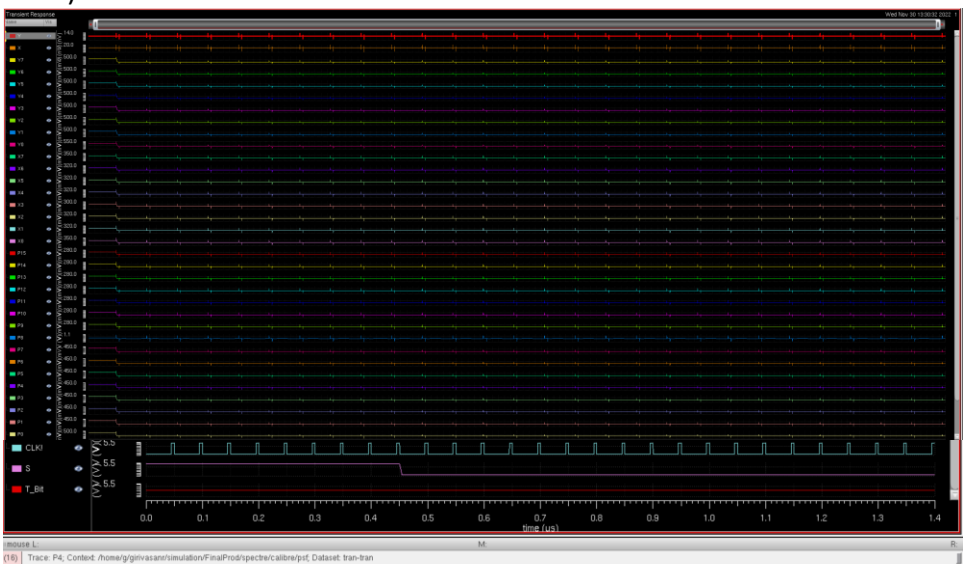
Test vectors for Final Project

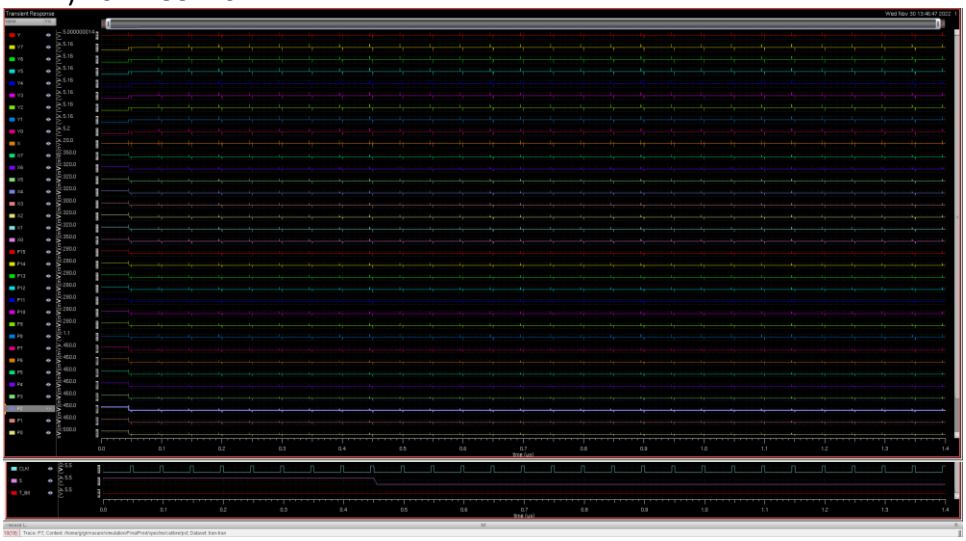
For 8 x 8 multiplier

Regular mode

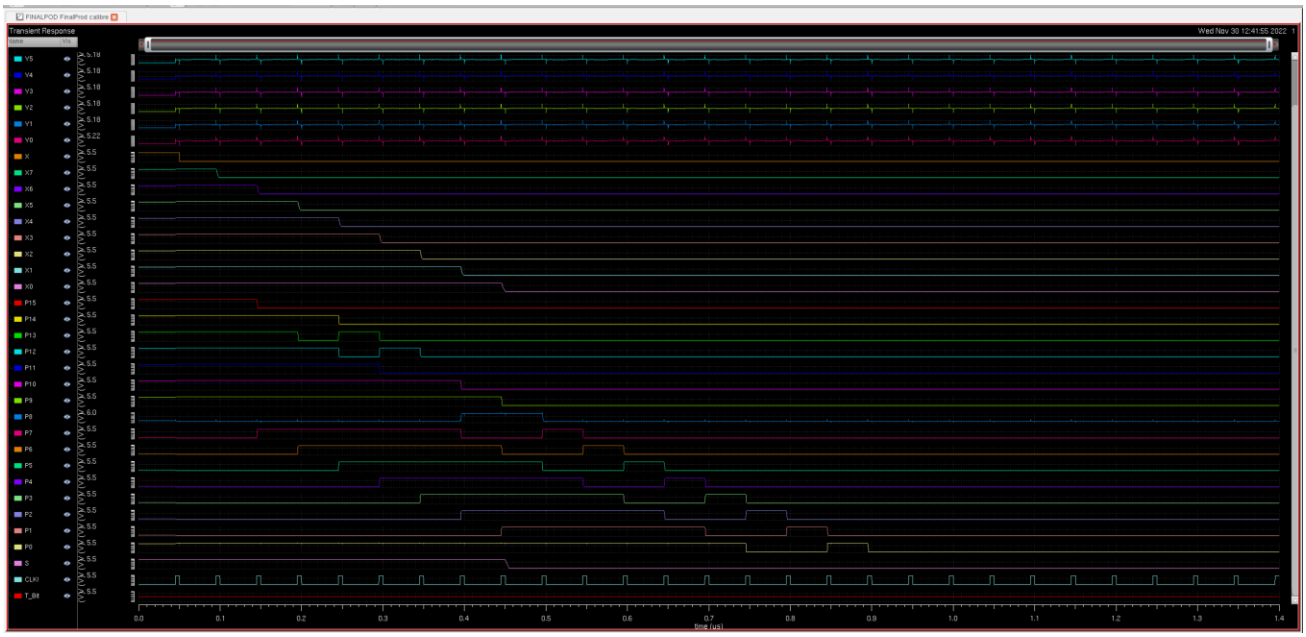
1) 0 x 0 = 0



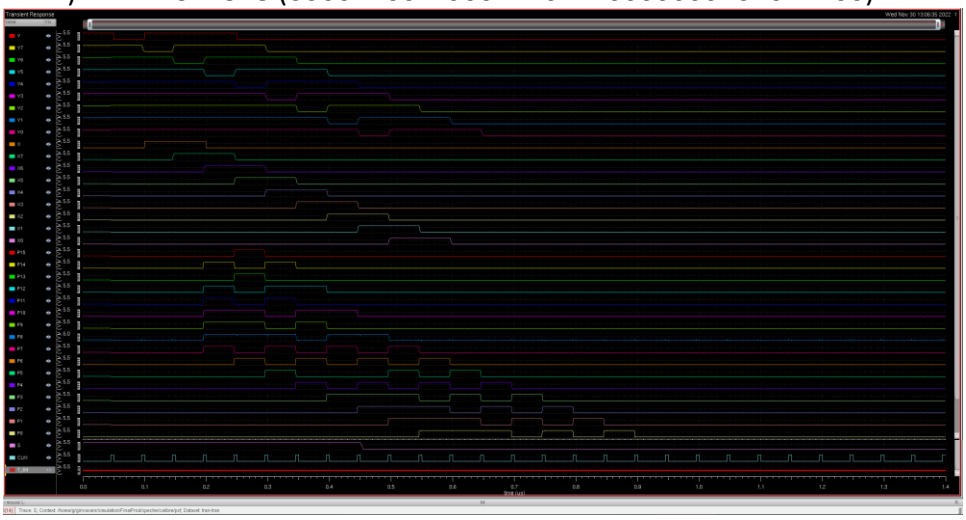
2) 0 x 255 = 0



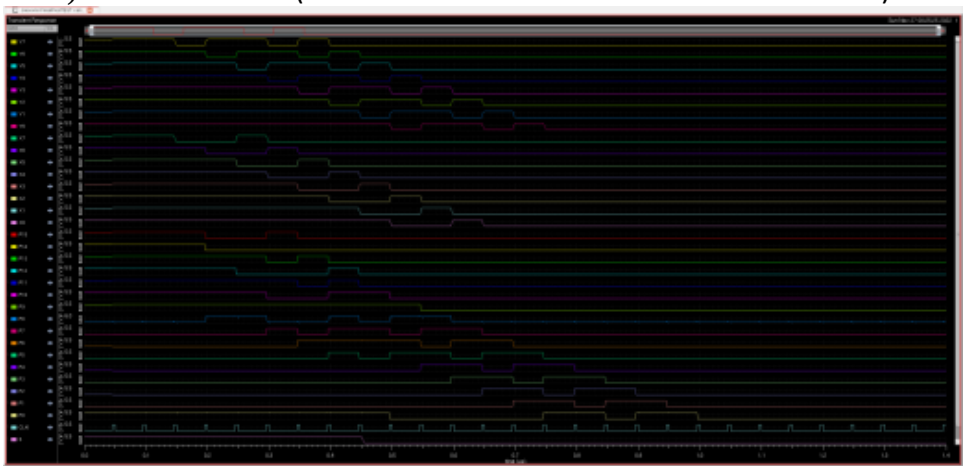
3) 1 x 255 = 255 (00000001 x 11111111 = 0000000011111111)



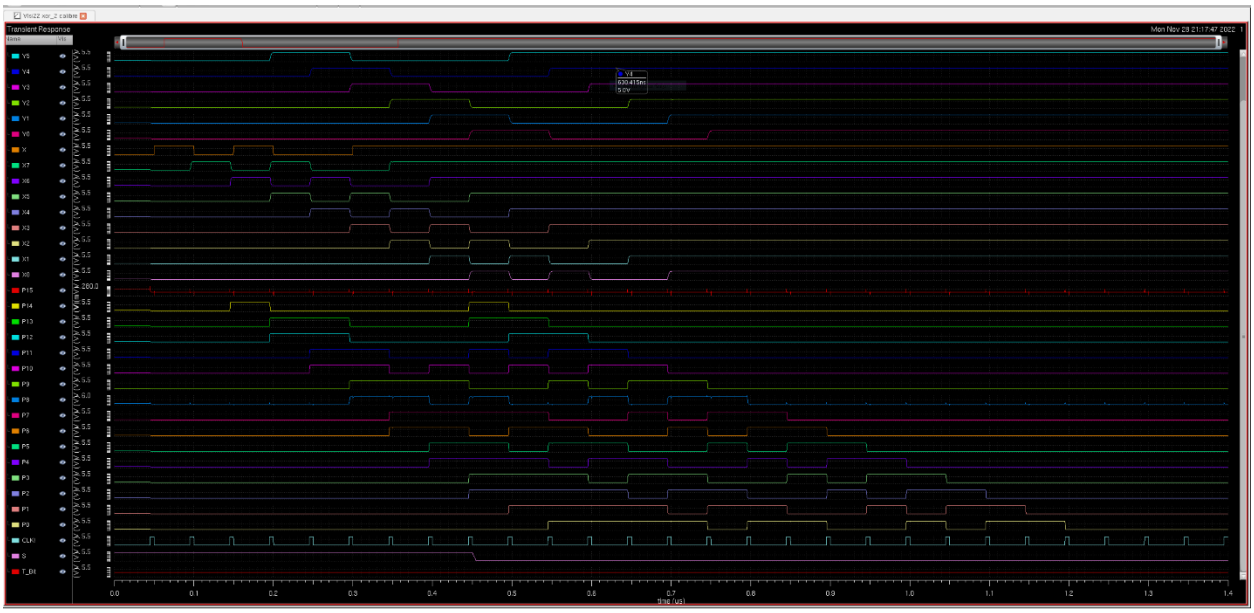
4) 12 x 29 = 348 (00001100 x 00011101 = 0000000101011100)



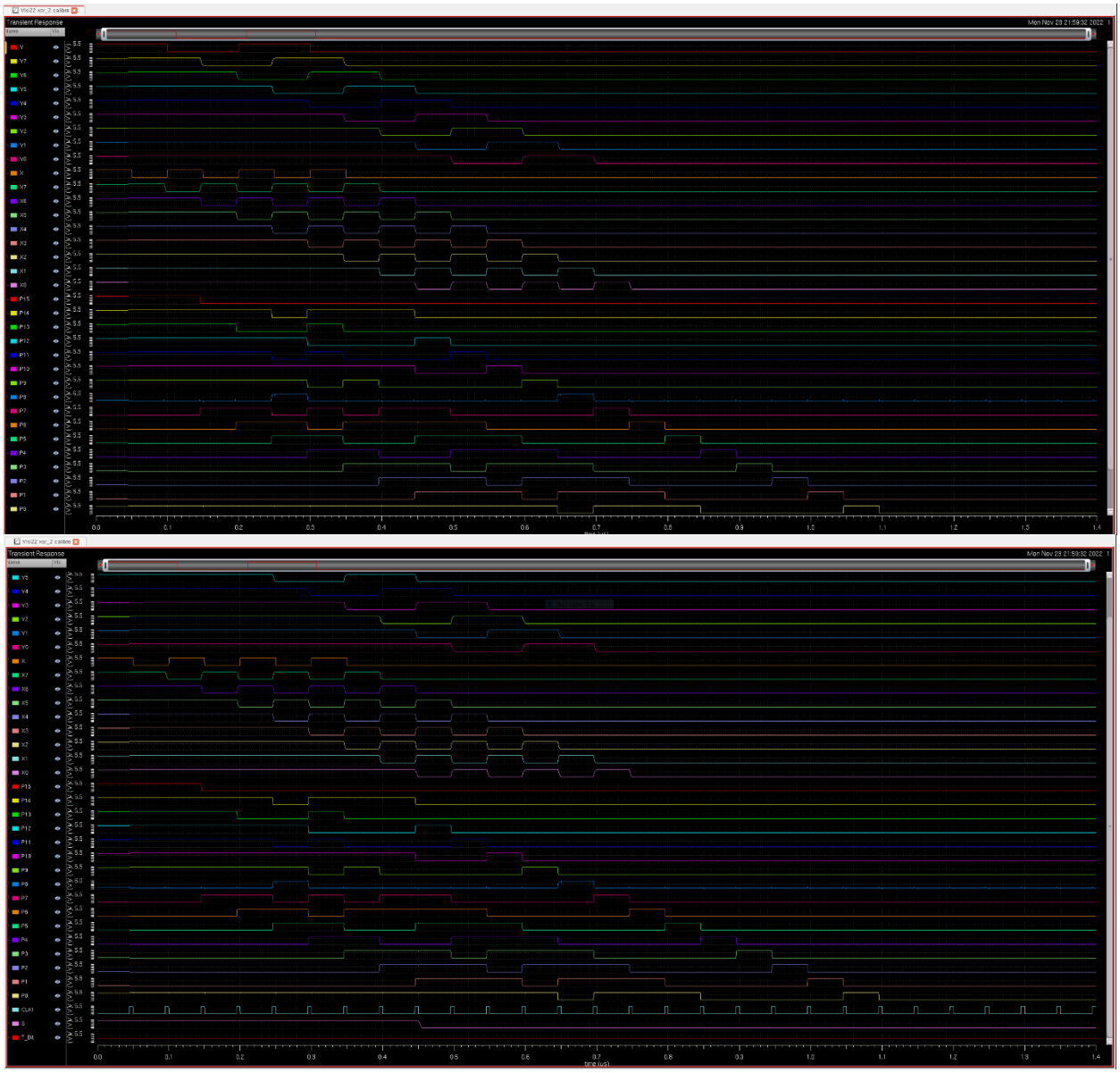
5) 19 x 91 = 1729 (00010011 x 01011011 = 0000011011000001) ** Taxicab number



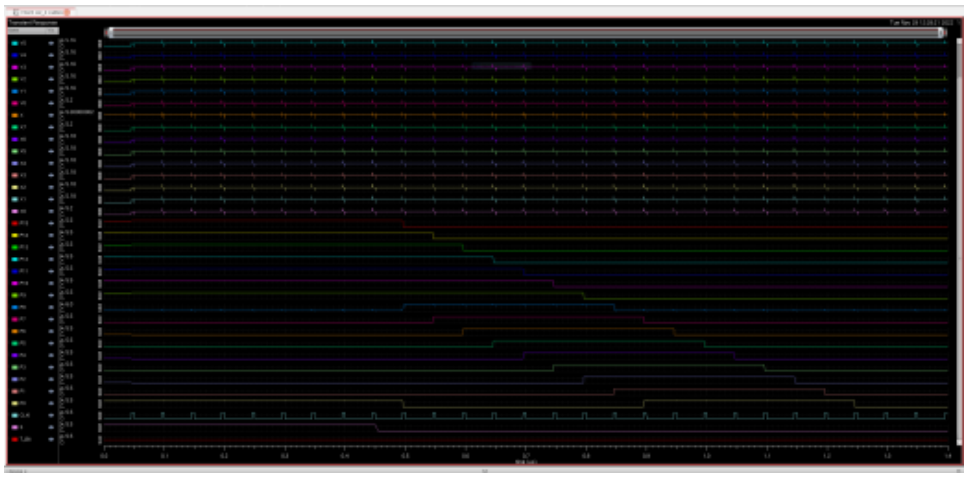
6) 83 x 97 = 8051 (01010011 x 01100001 = 0001111101110011)



7) 170 x 204 = 34680 (10101010 x 11001100 = 1000011101111000)

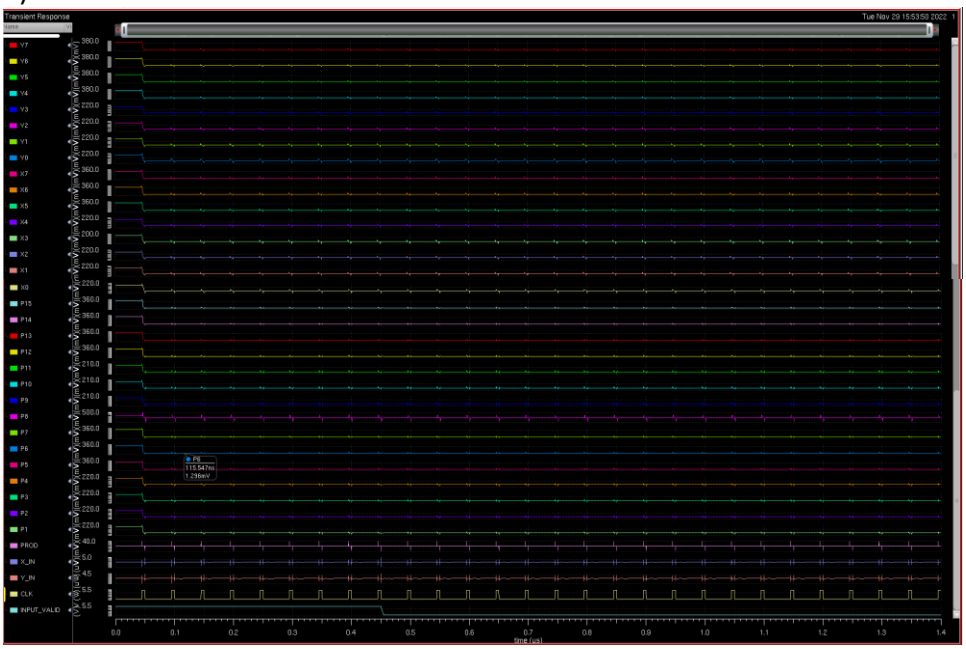


8) 255 x 255 = 65025 (11111111 x 11111111 = 1111111000000001)

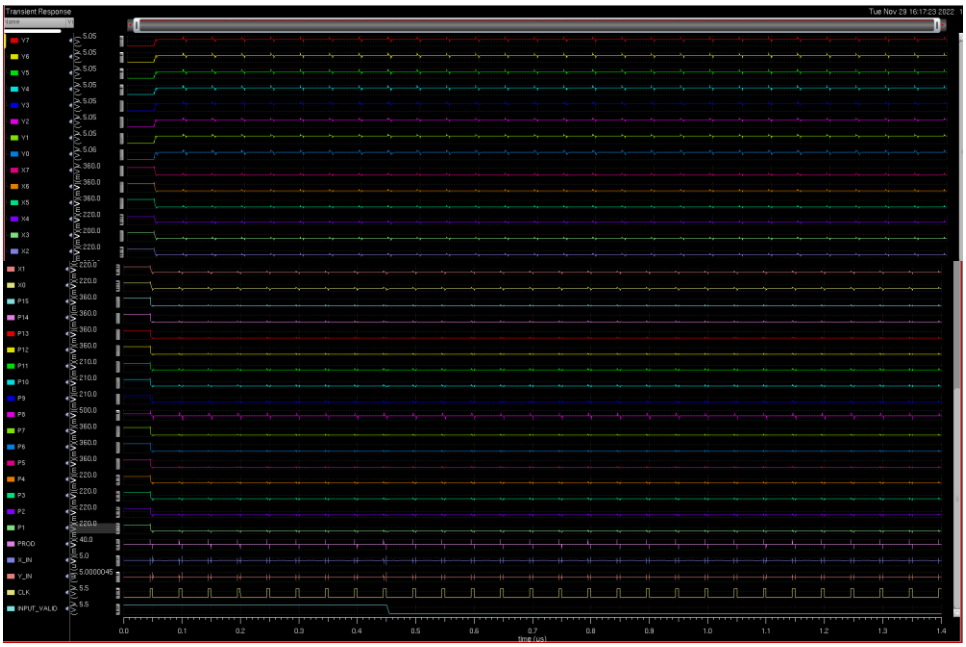


8 x 8 multiplier
With the pad frame

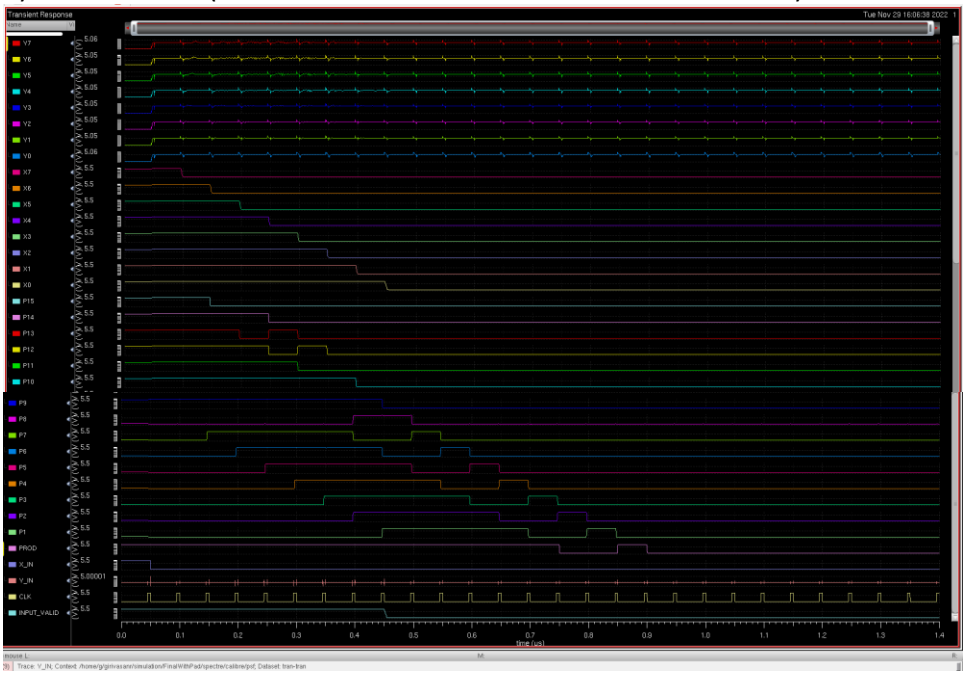
1)0 x 0 = 0



2)0 x 255 = 0



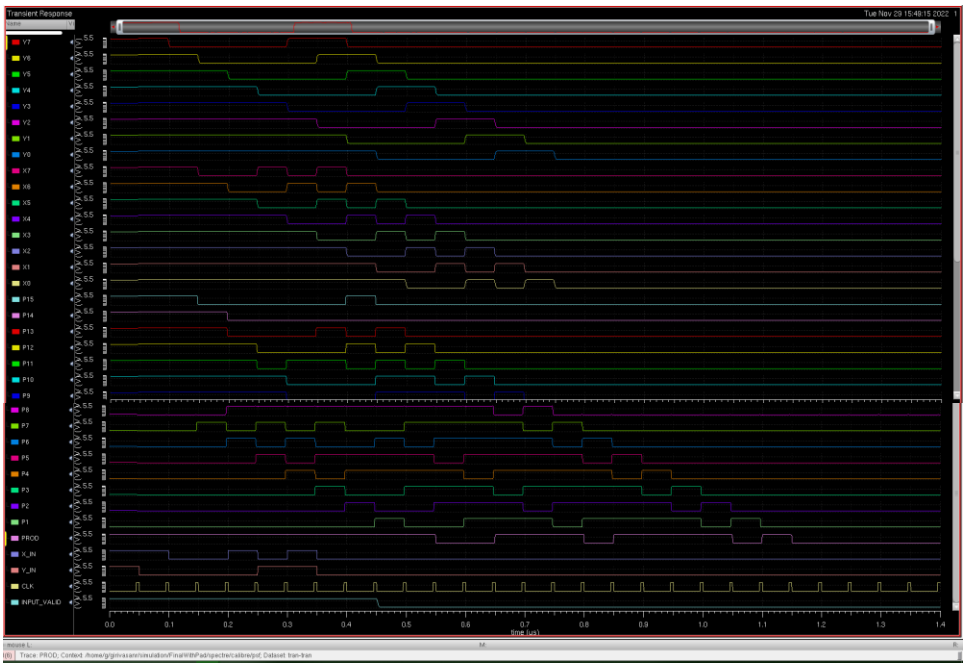
3)1 x 255 = 255 (00000001 x 11111111 = 0000000011111111)



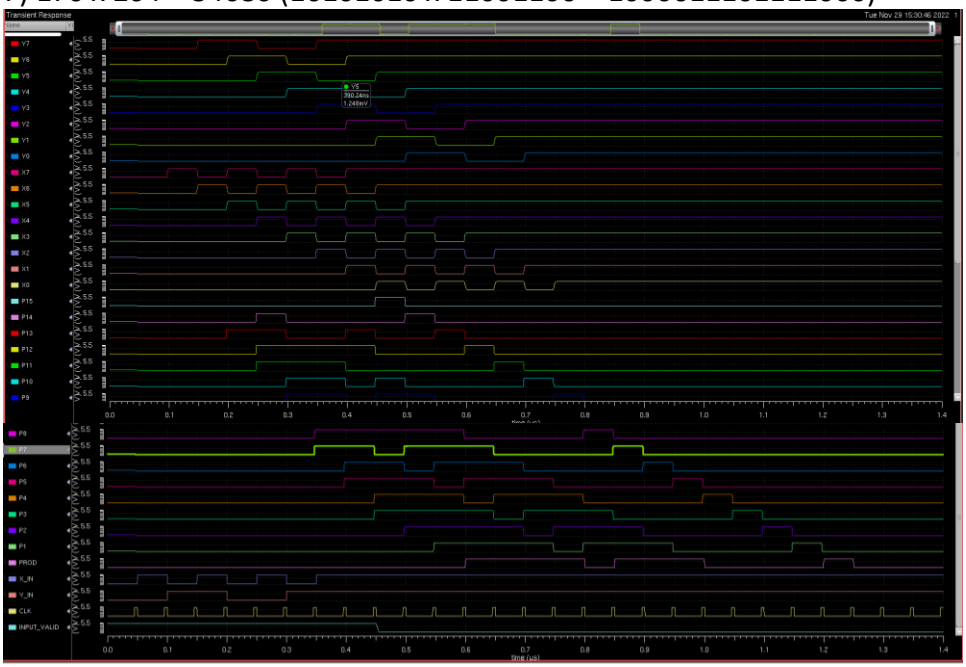
4)12 x 29 = 348 (00001100 x 00011101 = 0000000101011100)

5)19 x 91 = 1729 (00010011 x 01011011 = 0000011011000001) ** Taxicab number

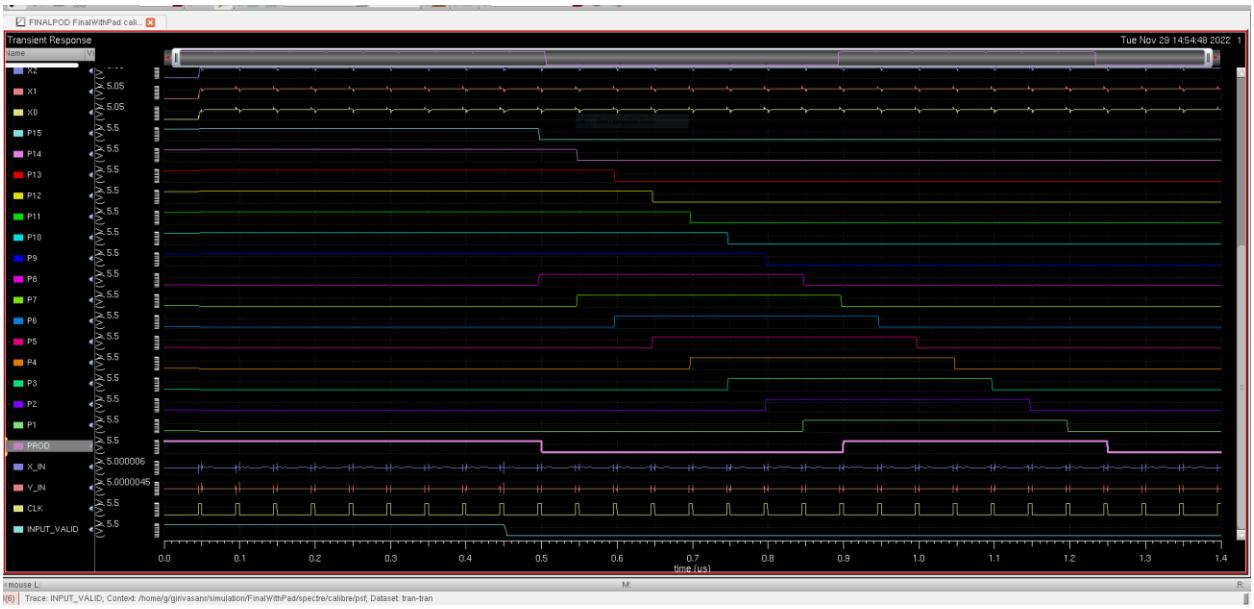
6) 83 x 97 = 8051 (01010011 x 01100001 = 0001111101110011)



7) 170 x 204 = 34680 (10101010 x 11001100 = 1000011101111000)



8) 255 x 255 = 65025 (11111111 x 11111111 = 1111111000000001)


FINALPOD FinalWithPad calt...
Transient Response
Tue Nov 29 14:54:48 2022
Name
X2
X1
X0
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
PROD
X_IN
Y_IN
CLK
INPUT_VALID
5.05
5.05
5.5
5.000006
5.0000045
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
time (us)
Trace: INPUT_VALID; Context: /home/g/girivasani/simulation/FinalWithPad/spectre/calibre/psf; Dataset: tran-tran