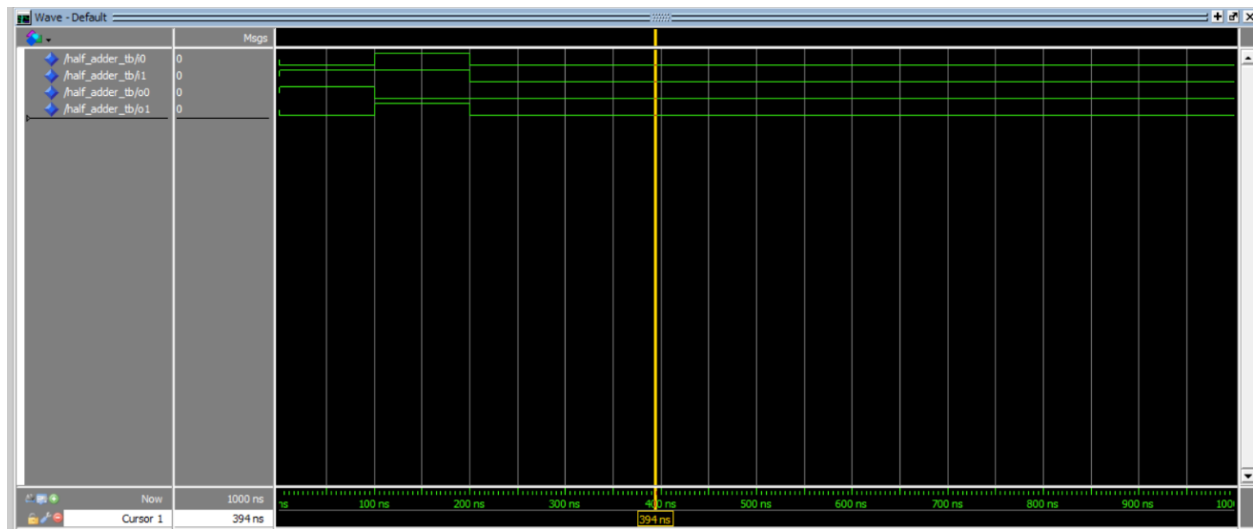Half adder:
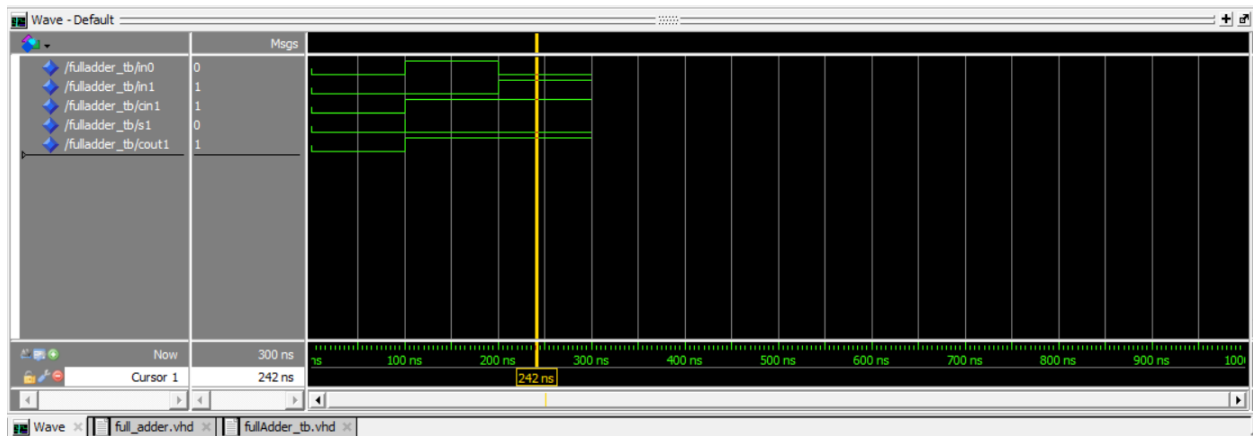

0 + 1 = 1, cout = 0

1 + 1 = 0, cout = 1

0 + 0 = 0, cout = 0

Full adder:

0 + 0 + 0 = 0, cout = 0

1 + 0 + 1 = 0, cout = 1

0 + 1 + 1 = 0, cout = 1