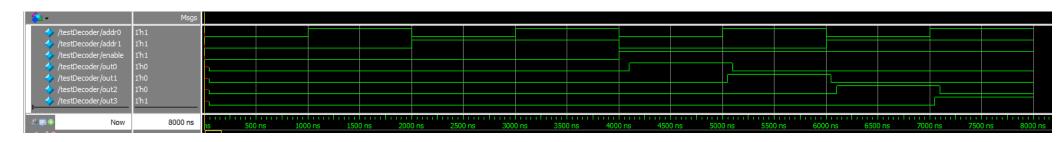
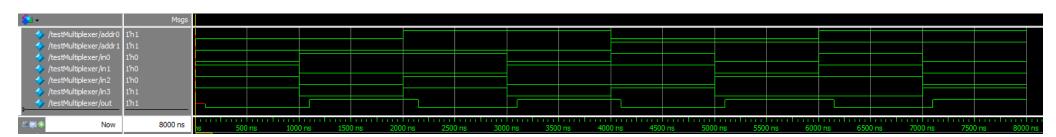
Shane Skikne

CompArch HW2

Decoder:



```
# A0 A1 I0 I1 I2 I3| 0 | Expected Output
# 0 0 0 1 1 1 1 0 | Just in0
# 0 0 1 0 0 0 | 1 | Just in0
# 1 0 1 0 1 1 | 0 | Just in1
# 1 0 0 1 0 0 | 1 | Just in1
# 1 0 0 1 0 0 | 1 | Just in2
# 0 1 0 0 1 0 | 1 | Just in2
# 1 1 1 1 1 0 | 0 | Just in3
# 1 1 0 0 0 1 | 1 | Just in3
# 0 ns
# 8400 ns
```



Adder

```
# a b carryin | sum carryout | Expected Output
                                 0 and 0
# 0
                                 1 and 0
# 0
                                 1 and 0
# 0
                                 0 and 1
                                 1 and 0
    0
                                 0 and 1
                                 0 and 1
    1
# 1
                                 1 and 1
# 0 ns
# 8400 ns
```

