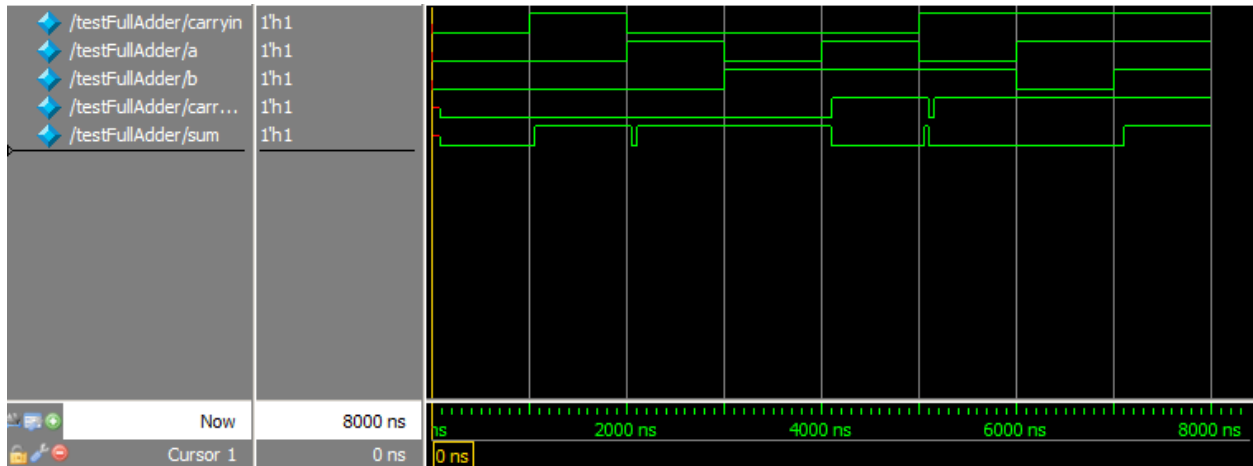


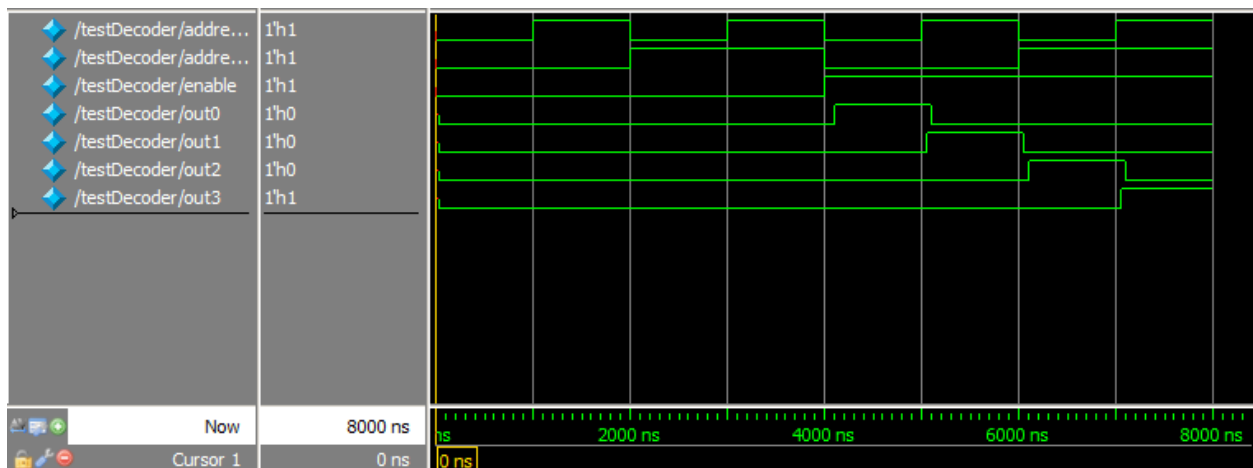
Adder:

Marie-Caroline Finke



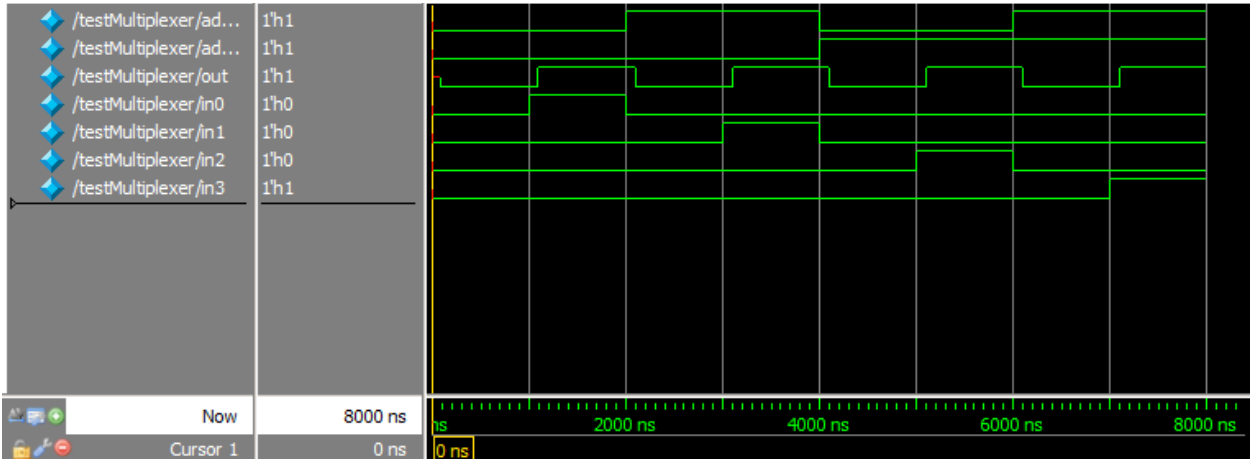
```
# Loading work.testFullAdder
# Loading work.structuralFullAdder
# Cin A B |Sum Cout| Expected Output
# 0 0 0 | 0 0 | All false
# 1 0 0 | 1 0 | Sum Only
# 0 1 0 | 1 0 | Sum Only
# 0 0 1 | 1 0 | Sum Only
# 0 1 1 | 0 1 | Cout Only
# 1 0 1 | 0 1 | Cout Only
# 1 1 0 | 0 1 | Cout Only
# 1 1 1 | 1 1 | All true
```

Decoder:



Multiplexer:

```
# Loading work.structuralDecoder
# En A0 A1 | O0 O1 O2 O3 | Expected Output
# 0 0 0 | 0 0 0 0 | All false
# 0 1 0 | 0 0 0 0 | All false
# 0 0 1 | 0 0 0 0 | All false
# 0 1 1 | 0 0 0 0 | All false
# 1 0 0 | 1 0 0 0 | O0 Only
# 1 1 0 | 0 1 0 0 | O1 Only
# 1 0 1 | 0 0 1 0 | O2 Only
# 1 1 1 | 0 0 0 1 | O3 Only
```



```
# Loading work.structuralMultiplexer
# Add1 Add2 | In0 In1 In2 In3 | Out | Expected Output
# 0 0 | 0 X X X | 0 | False
# 0 0 | 1 X X X | 1 | True
# 1 0 | X 0 X X | 0 | False
# 1 0 | X 1 X X | 1 | True
# 0 1 | X X 0 X | 0 | False
# 0 1 | X X 1 X | 1 | True
# 1 1 | X X X 0 | 0 | False
# 1 1 | X X X 1 | 1 | True
```