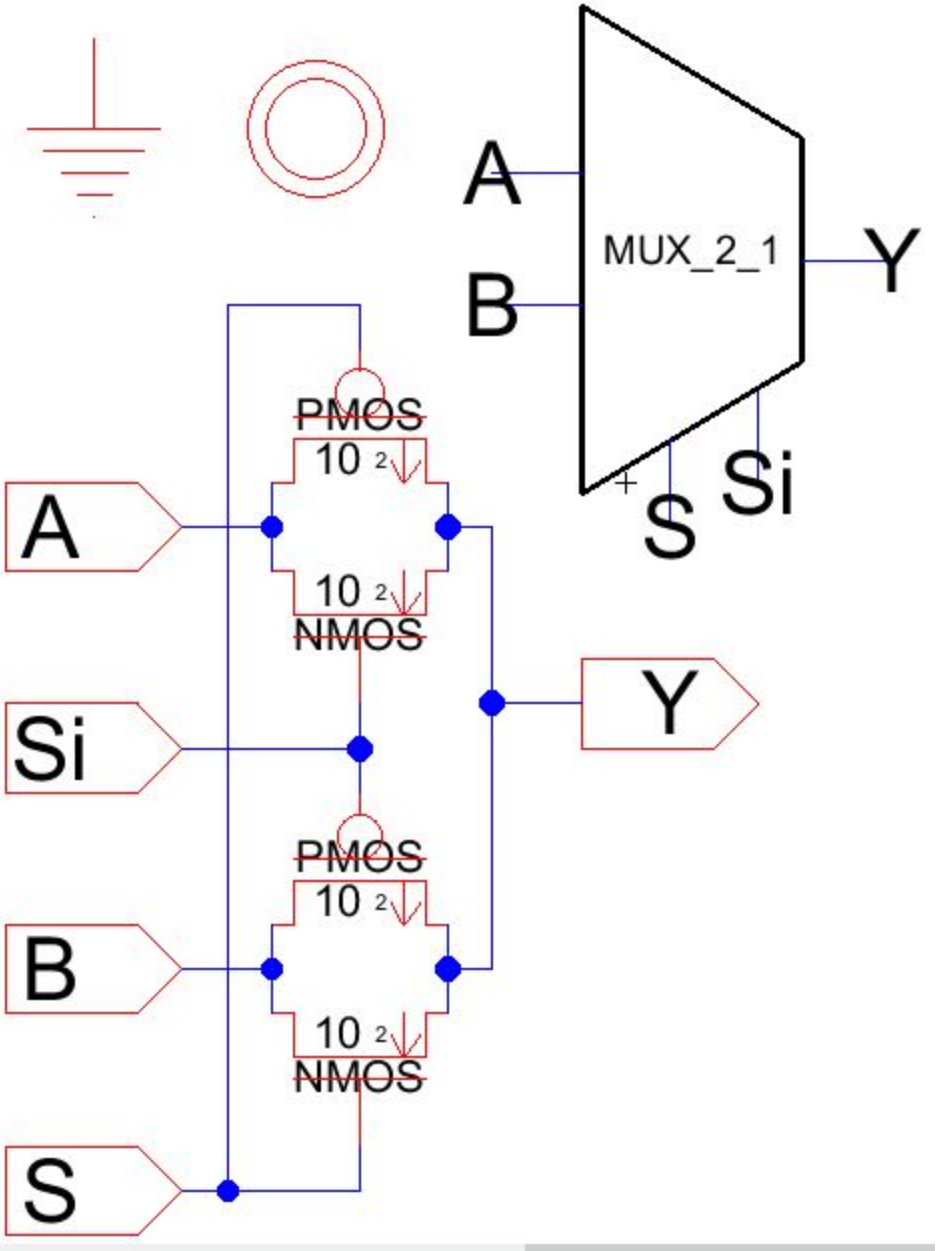
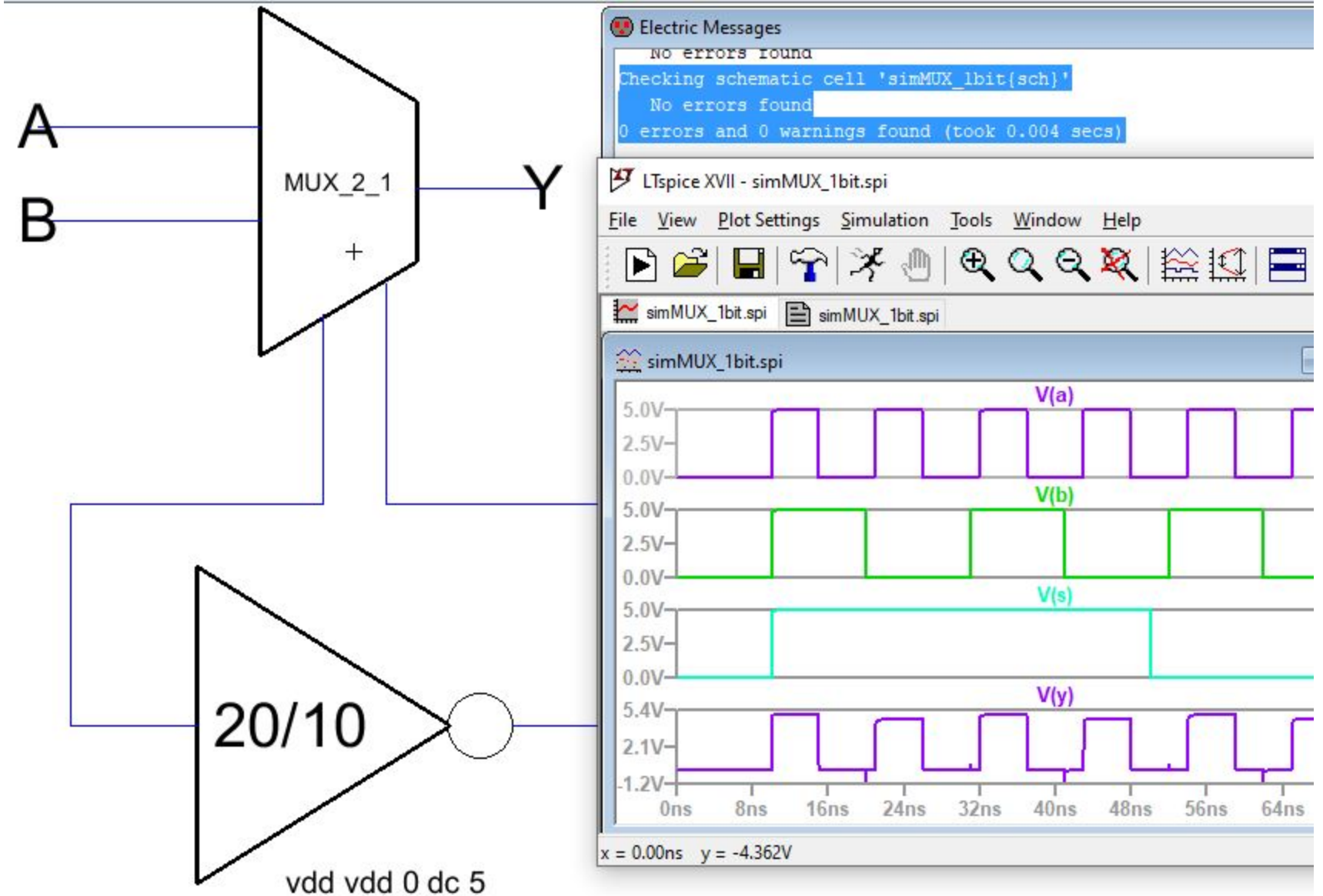
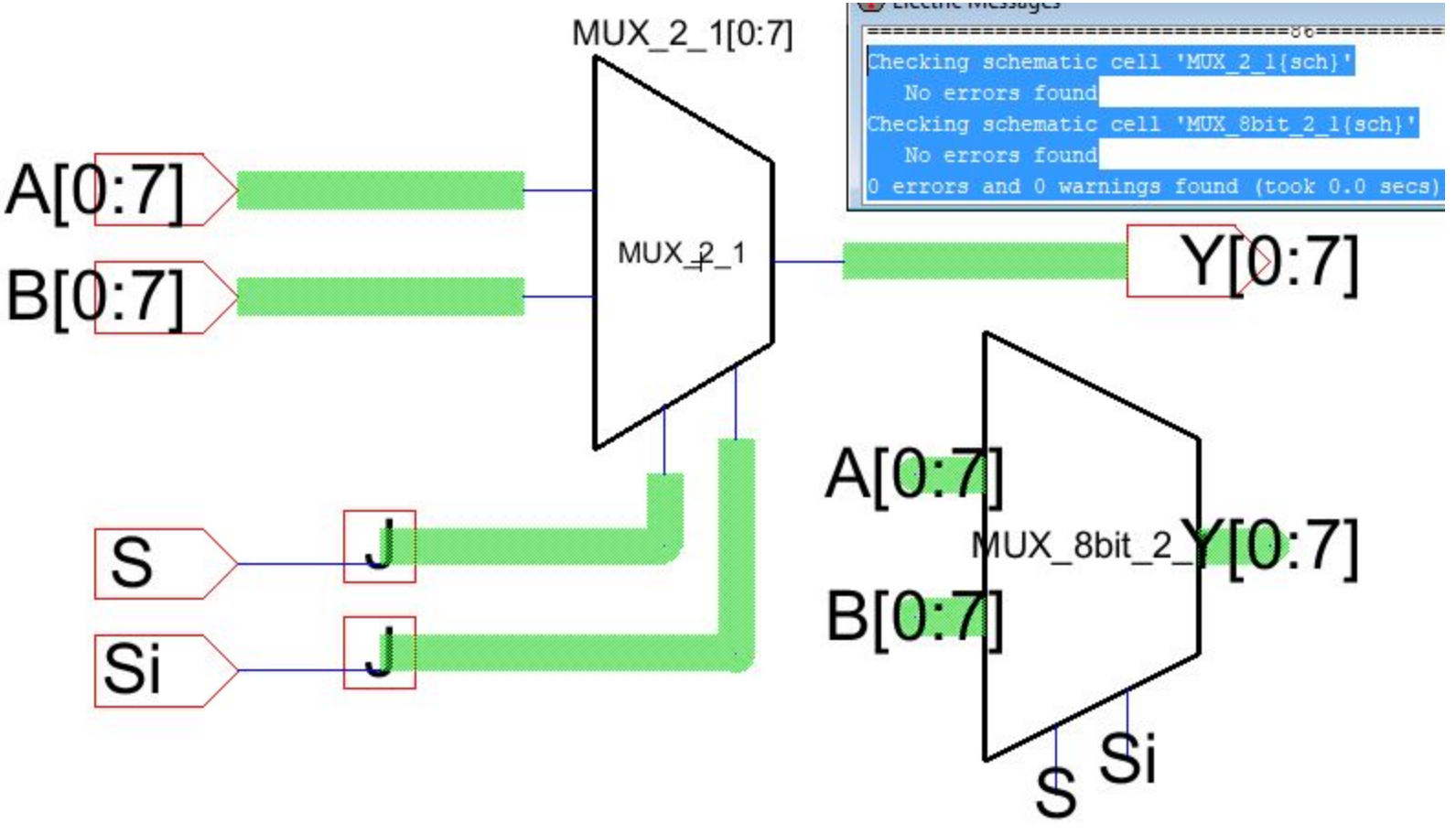
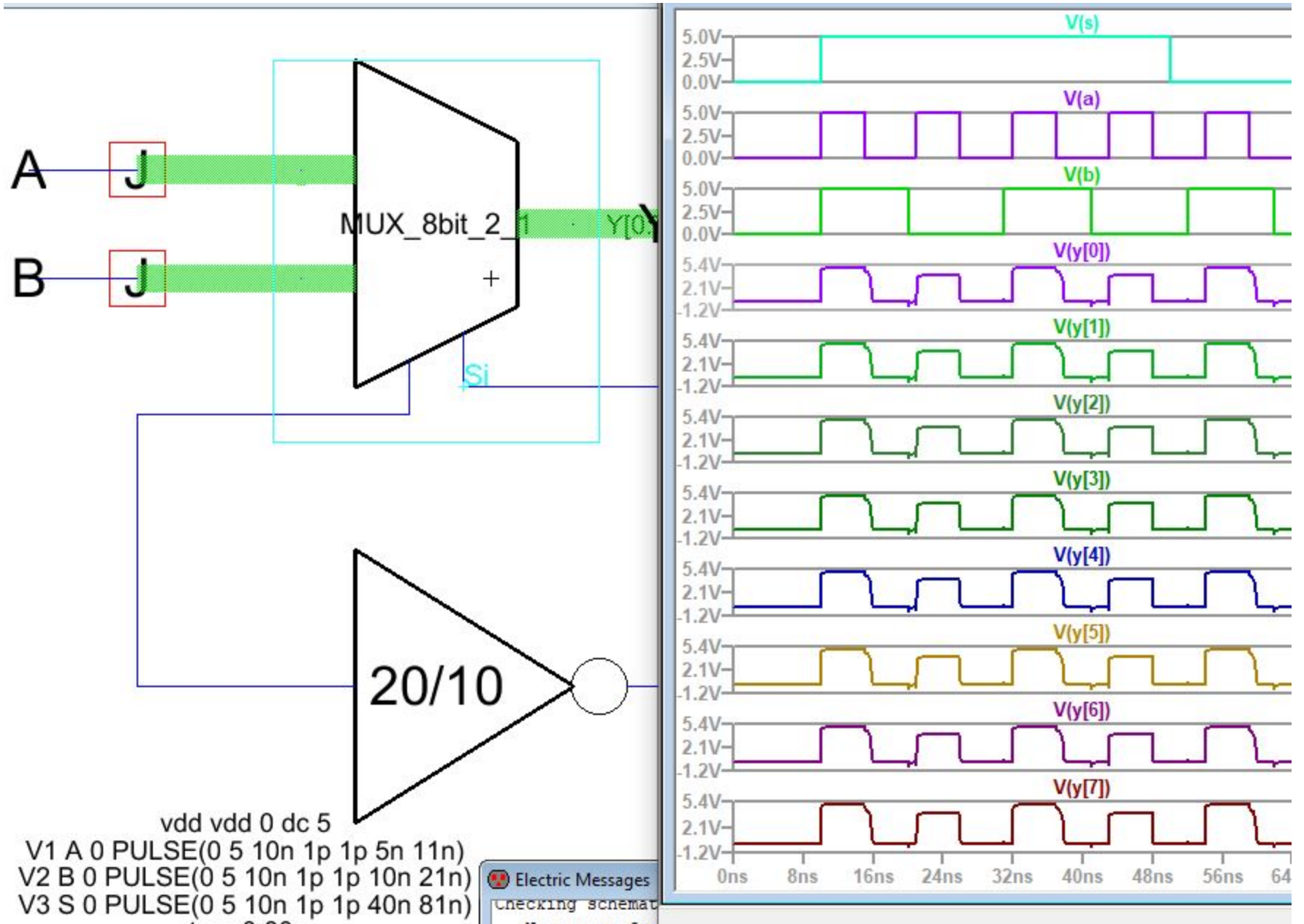


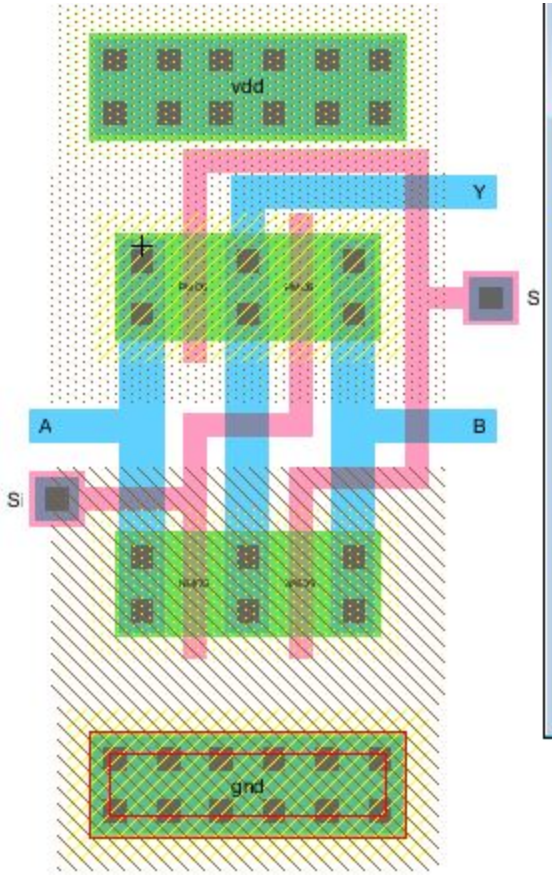

```
Checking schematic cell 'MUX_2_1{sch}'
   No errors found
0 errors and 0 warnings found (took 0.002 secs)
```



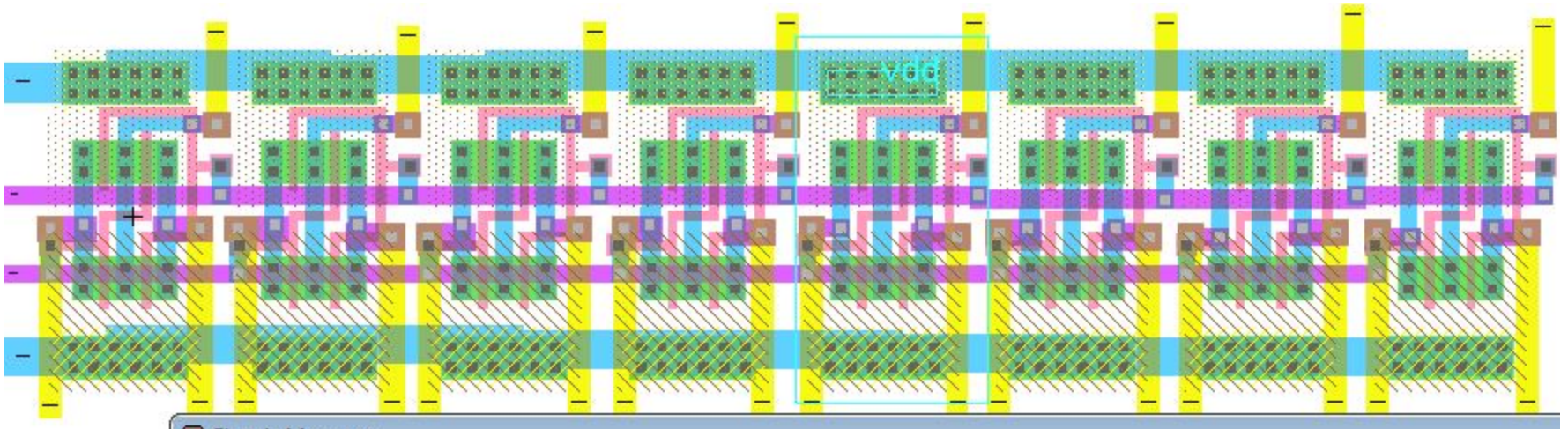

```
vdd vdd 0 dc 5
V1 A 0 PULSE(0 5 10n 1p 1p 5n 11n)
V2 B 0 PULSE(0 5 10n 1p 1p 10n 21n)
V3 S 0 PULSE(0 5 10n 1p 1p 40n 81n)
.tran 0 80n
.options plotwinsize=0
.include C5_models.txt
```


MUX_2_1[0:7]
A[0:7]
B[0:7]
MUX_2_1
Y[0:7]
Checking schematic cell 'MUX_2_1{sch}'
No errors found
Checking schematic cell 'MUX_8bit_2_1{sch}'
No errors found
0 errors and 0 warnings found (took 0.0 secs)
S
Si
J
J
A[0:7]
B[0:7]
MUX_8bit_2_
Y[0:7]
S
Si


A
B
J
J
MUX_8bit_2_1
Y[0]
Si
20/10
V(s)
V(a)
V(b)
V(y[0])
V(y[1])
V(y[2])
V(y[3])
V(y[4])
V(y[5])
V(y[6])
V(y[7])
5.0V
2.5V
0.0V
5.4V
2.1V
-1.2V
0ns
8ns
16ns
24ns
32ns
40ns
48ns
56ns
64
vdd vdd 0 dc 5
V1 A 0 PULSE(0 5 10n 1p 1p 5n 11n)
V2 B 0 PULSE(0 5 10n 1p 1p 10n 21n)
V3 S 0 PULSE(0 5 10n 1p 1p 40n 81n)
.tran 0 80n
.options plotwinsize=0
.include C5_models.txt
Electric Messages
No errors fou
Checking schematic cell 'simMUX_8bit{sch}'
No errors found
0 errors and 0 warnings found (took 0.003 secs)

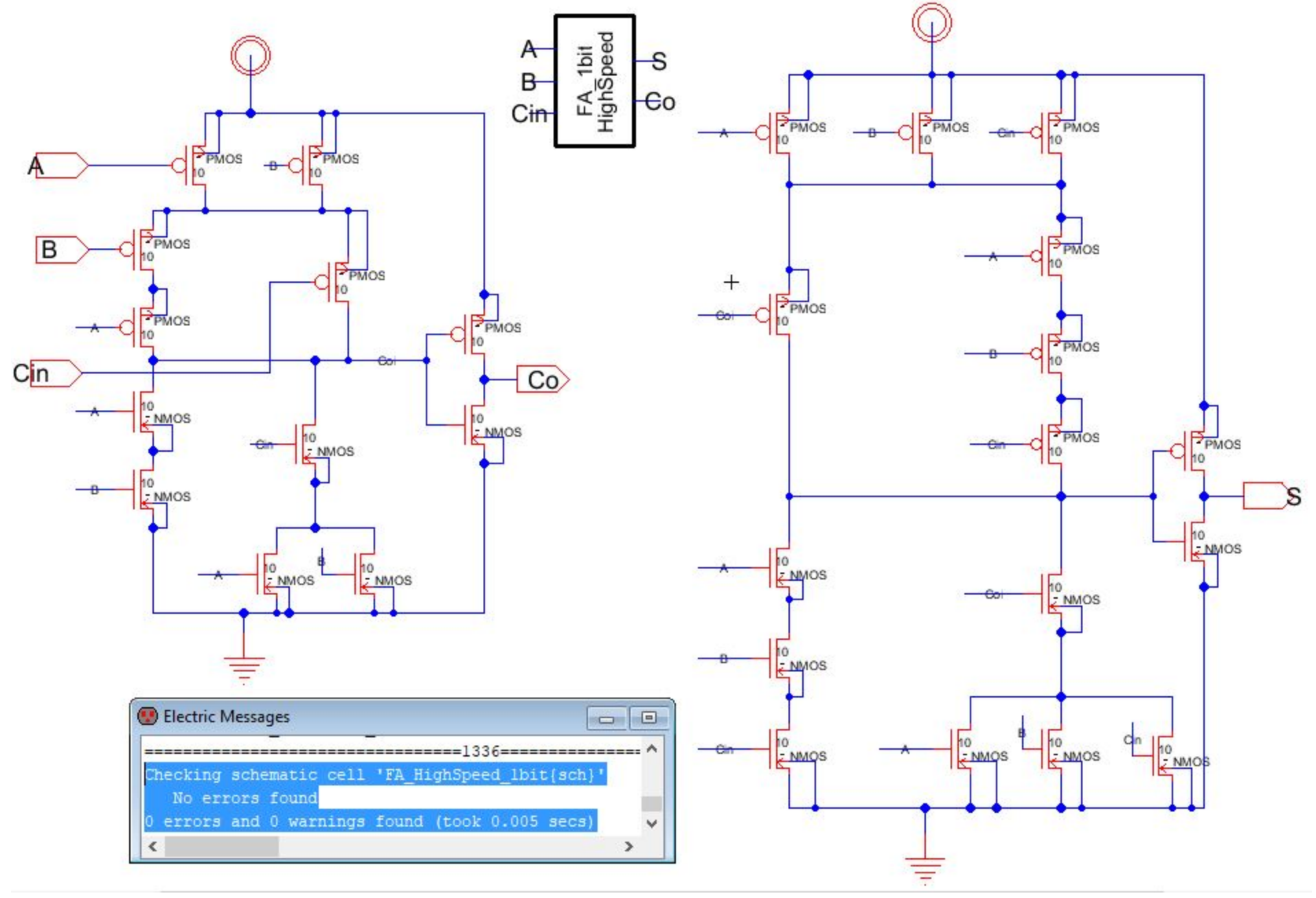


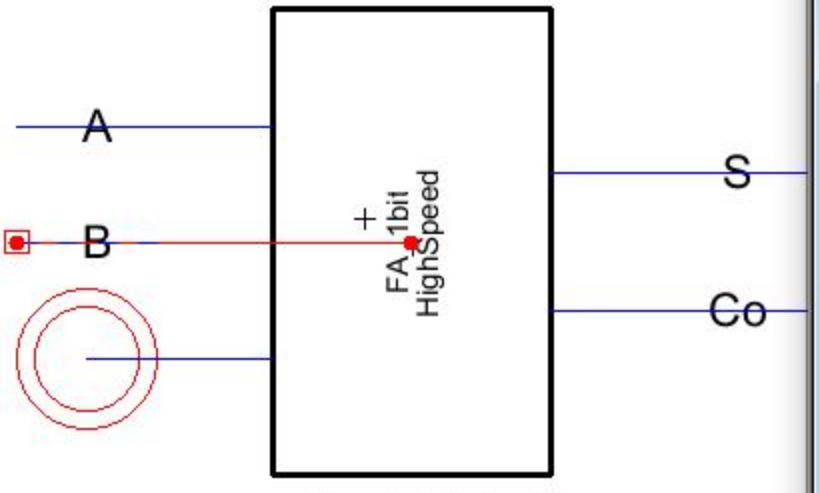

```
Running DRC with area bit on, extension bit on, Mosis bit
Checking again hierarchy .... (0.0 secs)
Found 12 networks
Checking cell 'MUX_2_1{lay}'
        No errors/warnings found
0 errors and 0 warnings found (took 0.028 secs)
================================280================================
Checking Wells and Substrates in 'ENGR338_Tucson:MUX_2_1{lay}' ...
   Geometry collection found 20 well pieces, took 0.0 secs
   Geometry analysis used 6 threads and took 0.002 secs
NetValues propagation took 0.0 secs
Checking short circuits in 2 well contacts
   Additional analysis took 0.0 secs
No Well errors found (took 0.002 secs)
================================281================================
Hierarchical NCC every cell in the design: cell 'MUX_2_1{sch}'  cell 'MUX_2_1{lay
Comparing: ENGR338_Tucson:MUX_2_1{sch} with: ENGR338_Tucson:MUX_2_1{lay}
  exports match, topologies match, sizes not checked in 0.033 seconds.
Summary for all cells: exports match, topologies match, sizes not checked
NCC command completed in: 0.042 seconds.
```



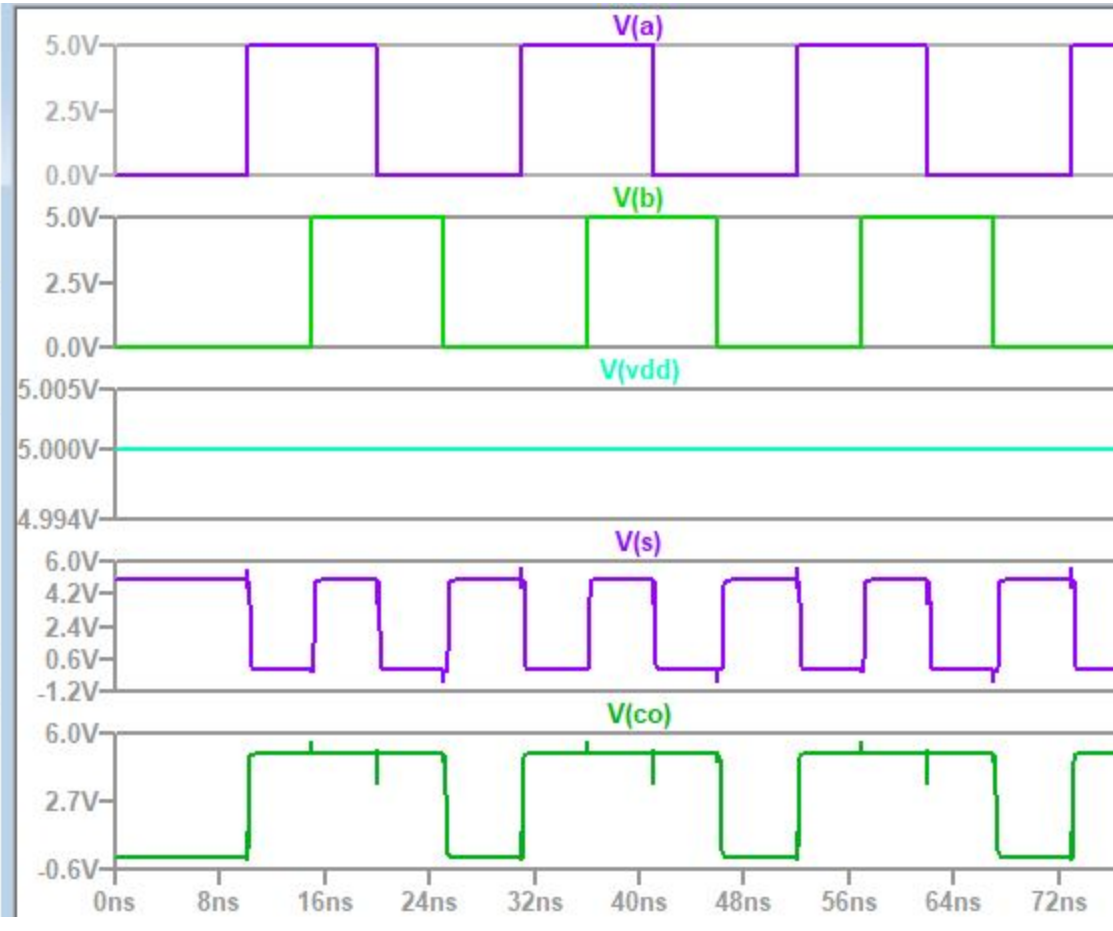
Electric Messages

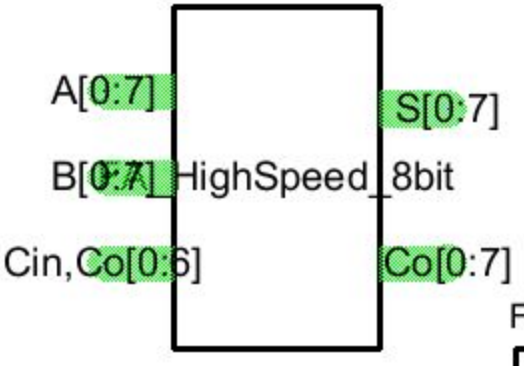
```
================================910================================
Running DRC with area bit on, extension bit on, Mosis bit
Checking again hierarchy .... (0.0 secs)
Found 29 networks
0 errors and 0 warnings found (took 0.001 secs)
================================911================================
Checking Wells and Substrates in 'ENGR338_Tucson:MUX_8bit_2_1{lay}' ...
   Geometry collection found 160 well pieces, took 0.002 secs
   Geometry analysis used 6 threads and took 0.002 secs
NetValues propagation took 0.0 secs
Checking short circuits in 16 well contacts
   Additional analysis took 0.0 secs
No Well errors found (took 0.004 secs)
================================912================================
Hierarchical NCC every cell in the design: cell 'MUX_8bit_2_1{sch}'  cell 'MUX_8bit_2_1{lay}'
Comparing: ENGR338_Tucson:MUX_2_1{sch} with: ENGR338_Tucson:MUX_2_1{lay}
  exports match, topologies match, sizes not checked in 0.001 seconds.
Comparing: ENGR338_Tucson:MUX_8bit_2_1{sch} with: ENGR338_Tucson:MUX_8bit_2_1{lay}
  exports match, topologies match, sizes not checked in 0.002 seconds.
Summary for all cells: exports match, topologies match, sizes not checked
NCC command completed in: 0.004 seconds.
```


A
B
Cin
FA_1bit
HighSpeed
S
Co
PMOS
NMOS
Coi
Electric Messages
==========1336==========
Checking schematic cell 'FA_HighSpeed_1bit{sch}'
No errors found
0 errors and 0 warnings found (took 0.005 secs)




```
vdd vdd 0 dc 5
V1 A 0 PULSE(0 5 10n 1p 1p 10n 21n)
V2 B 0 PULSE(0 5 15n 1p 1p 10n 21n)
.tran 0 80n
.options plotwinsize=0
.include C5_models.txt
```






```
0 errors and 0 warnings found (took 0.009 secs)
================================169===========
Checking schematic cell 'FA_HighSpeed_1bit{sch}'
   No errors found
Checking schematic cell 'FA_HighSpeed_8bit{sch}'
   No errors found
0 errors and 0 warnings found (took 0.003 secs)
```