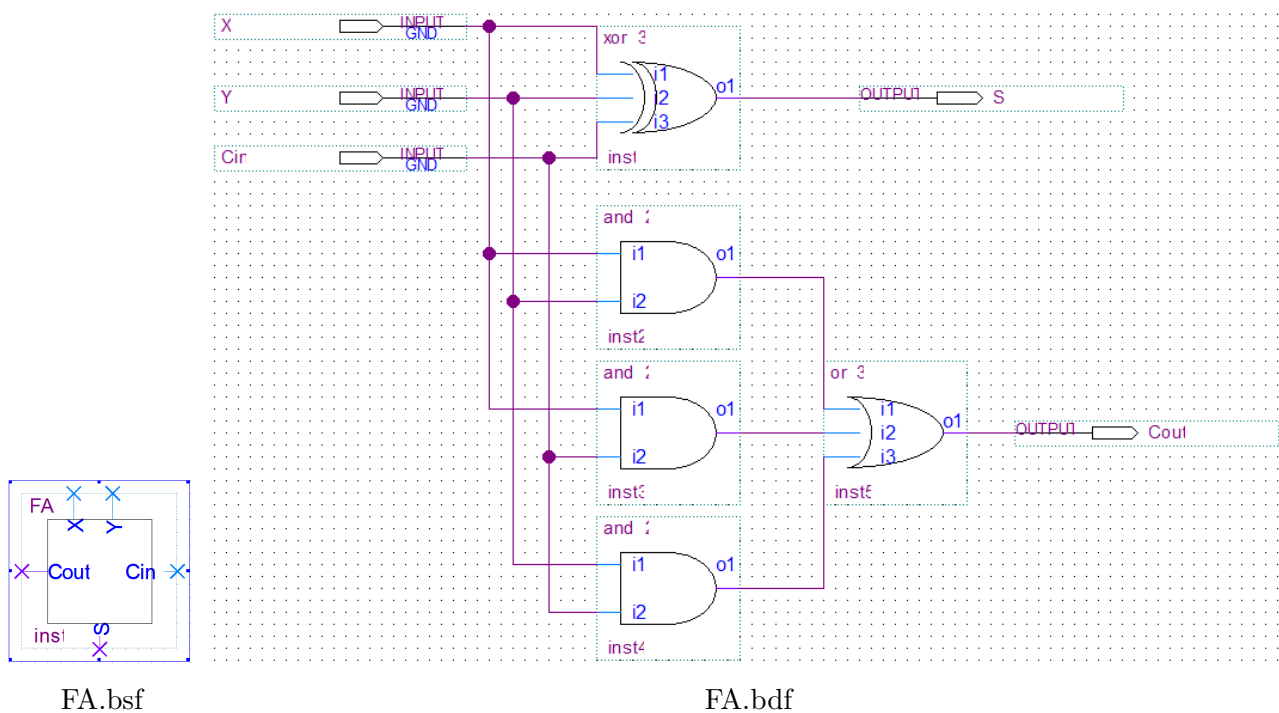


Quartus II Lab1 — Combinational Circuits

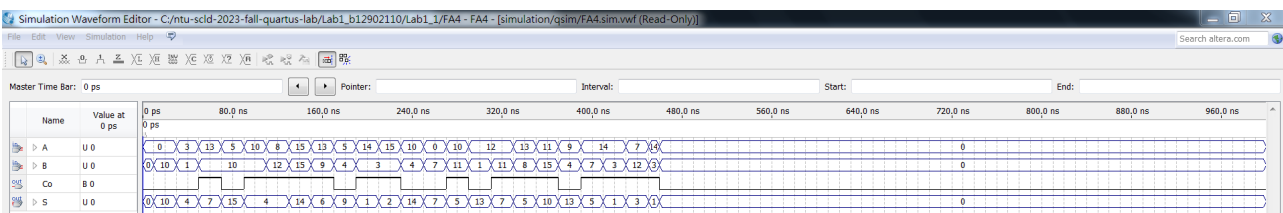
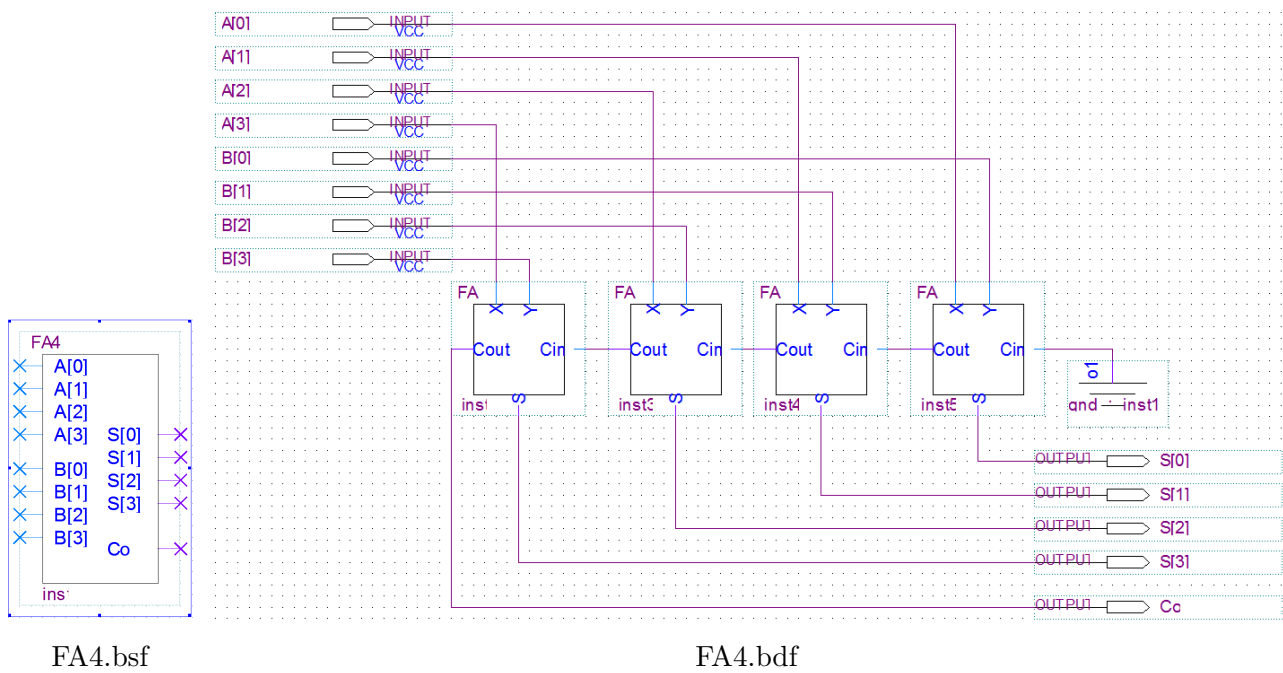
NTU Switching Circuit and Logic Design 2023

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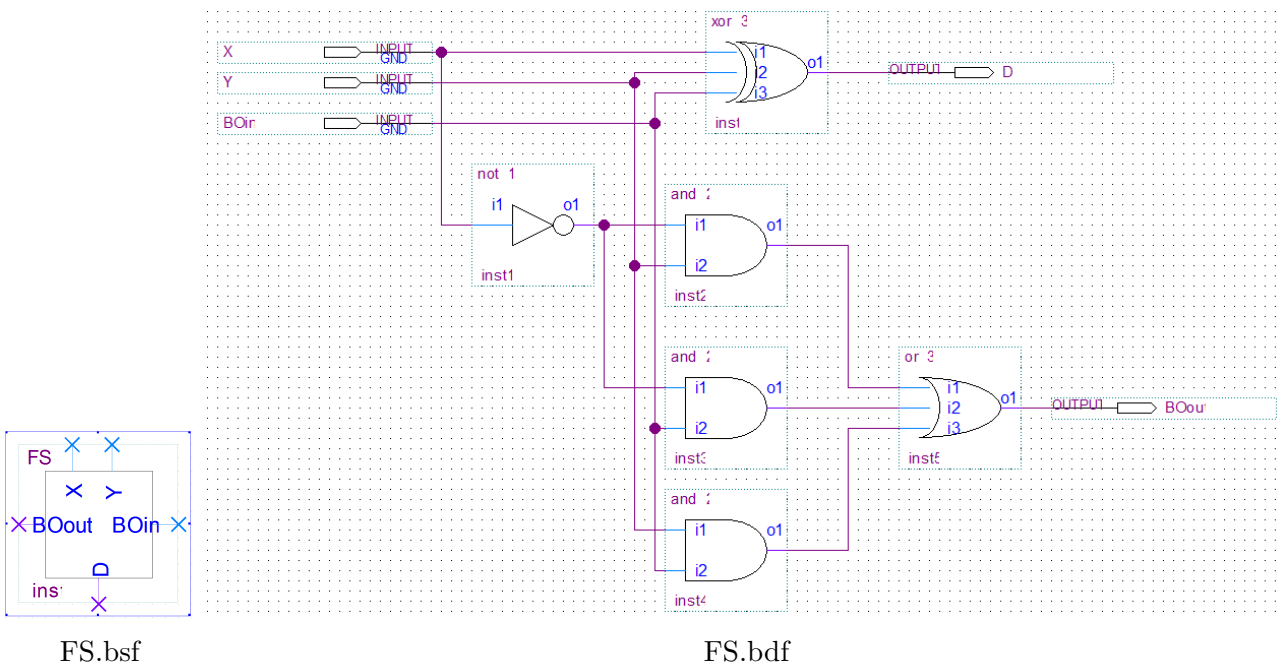
1 FA: 1-bit Full Adder



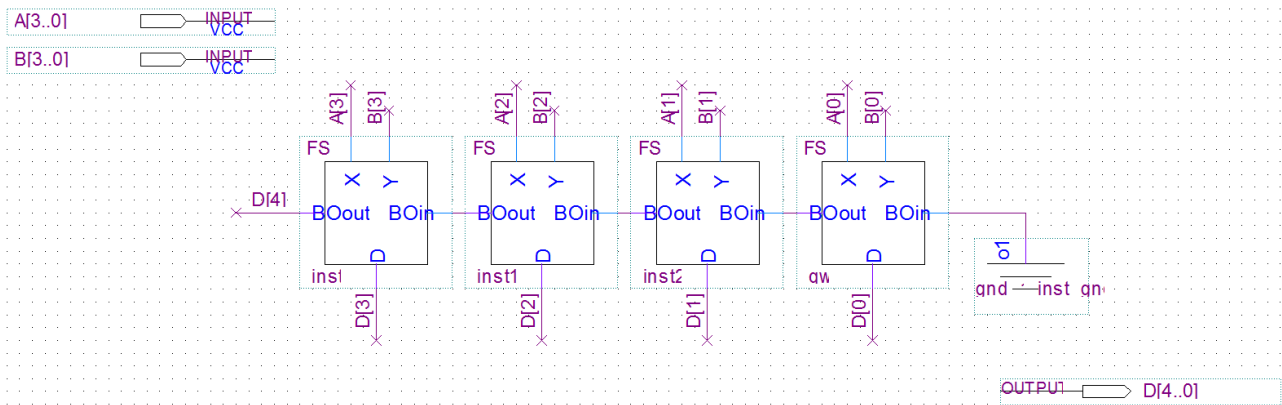
2 FA4: 4-bit Adder



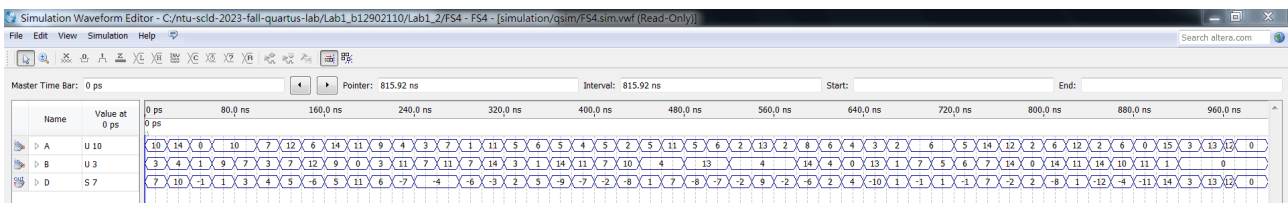
3 FS: 1-bit Full Subtrator



4 FS4: 4-bit Subtractor



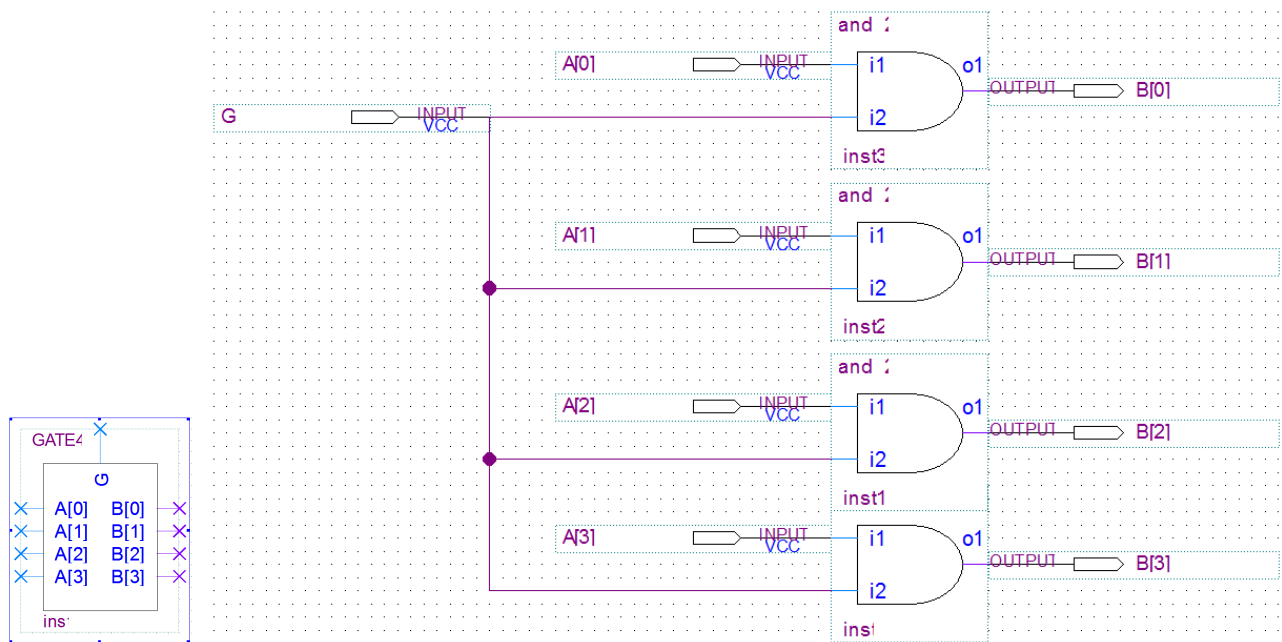
FS4.bdf



FS4 simulation

5 GATE4: 4-bit Gate

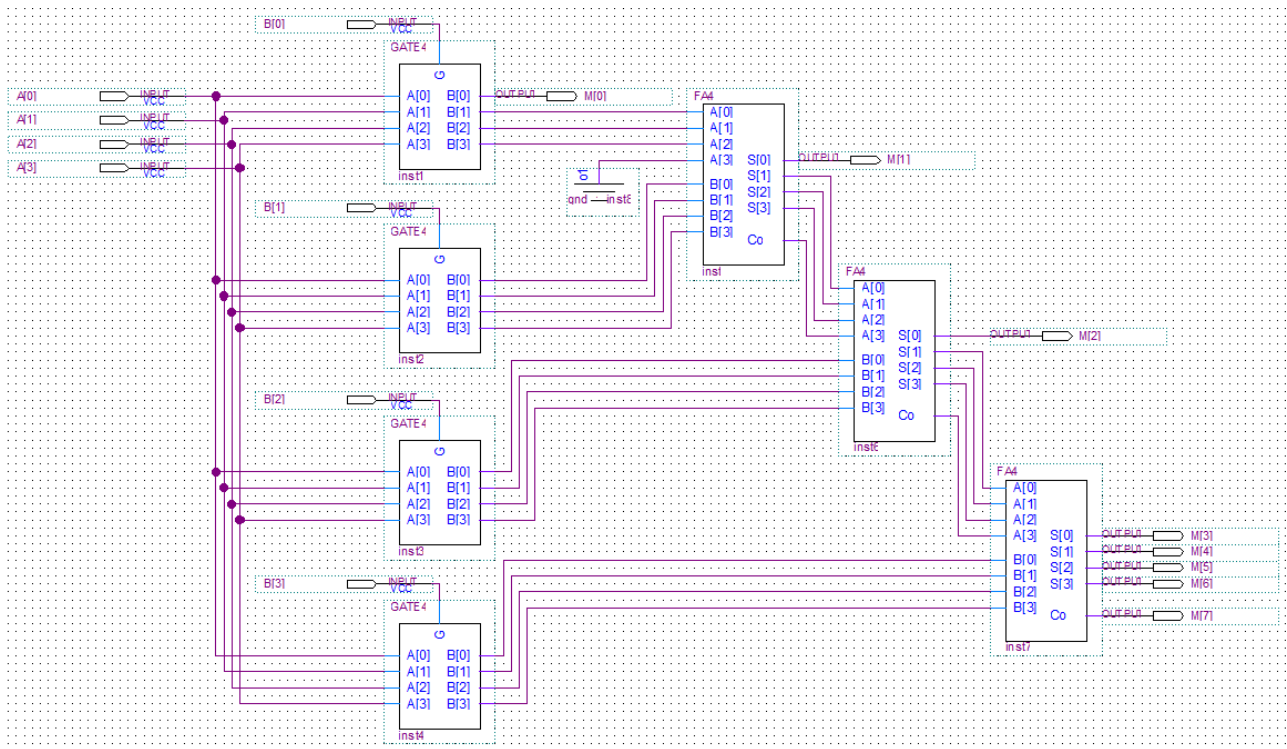
```
if (G == 1) then B = A
else B = 0
```



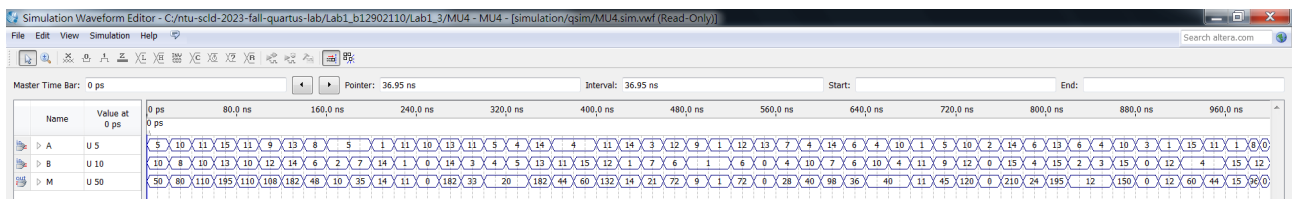
GATE4.bsf

GATE4.bdf

6 MU4: 4-bit Multiplier



MU4.bdf



MU4 simulation