

In this Project you will perform layout design with Magic and simulations with Spice. Write an comprehensive report for your homework. Submit the magic and spice files with the report.

4x1 MUX

Design the 2x1 Inverting MUX shown next. Use inverter for finding S' .

Using three inverting 2x1 MUXes design a 4x1 MUX.

Show its functionality is correct. Compute its worst case delay and critical path.

For Magic Layout use the same tech file we used in lectures.

Put all your magic designs, spice decks and resultant plots in the report and explain them fully.

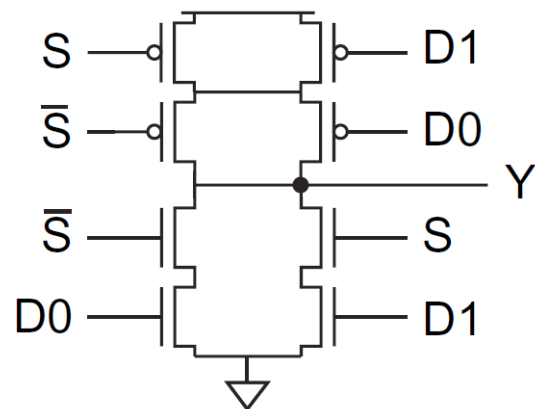


Figure 1 2x1 Inverting MUX