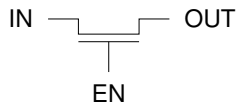
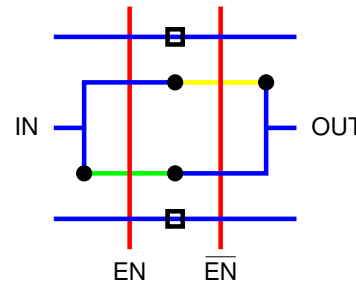
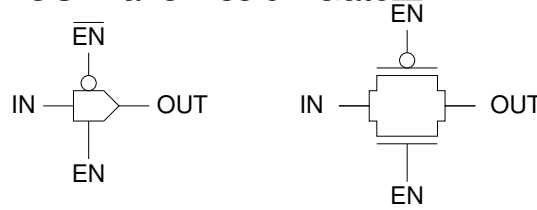


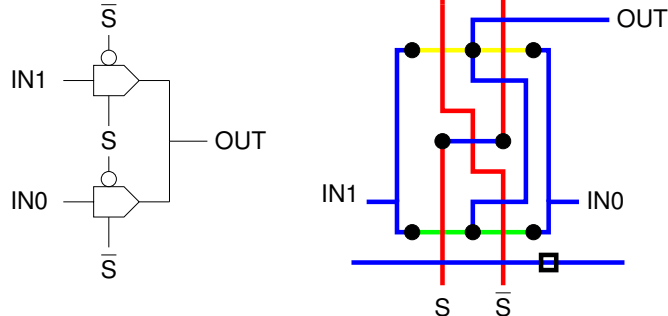
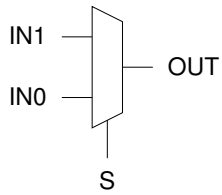
Pass Transistor



CMOS Transmission Gate



Transmission Gate Multiplexor

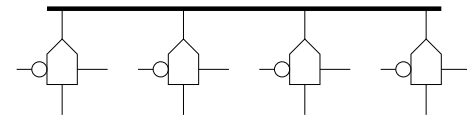


*note distinctive polysilicon crossover

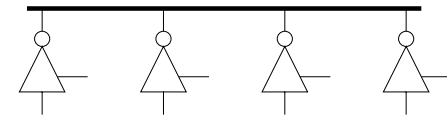
Tri-state gates are used for Multiplexing

Distributed Multiplexing

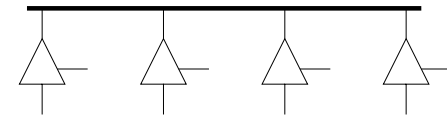
using transmission gates



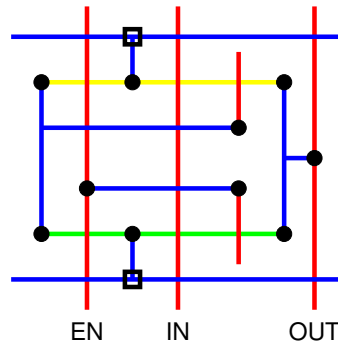
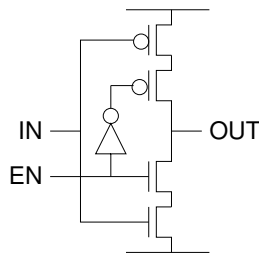
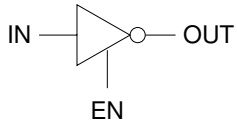
using tri-state inverters



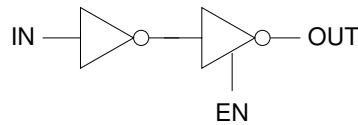
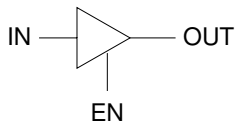
using tri-state buffers



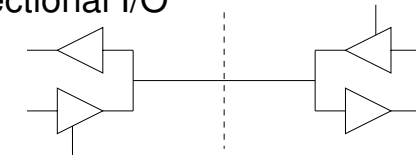
Tri-state Inverter



Tri-state Buffer



Bi-directional I/O



*this is another form of multiplexing