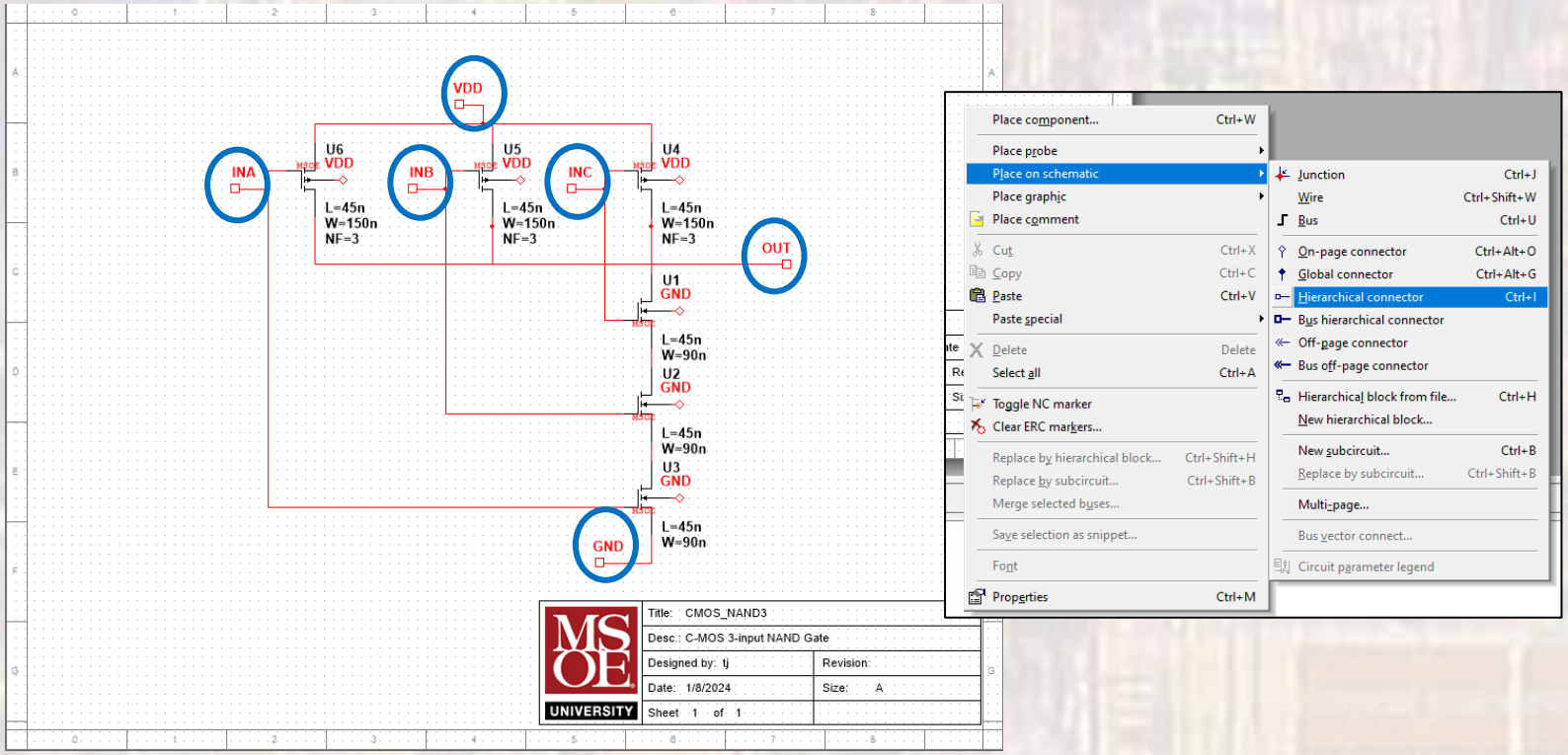
Hierarchical Design (MultiSim)

Last modified 1/8/24

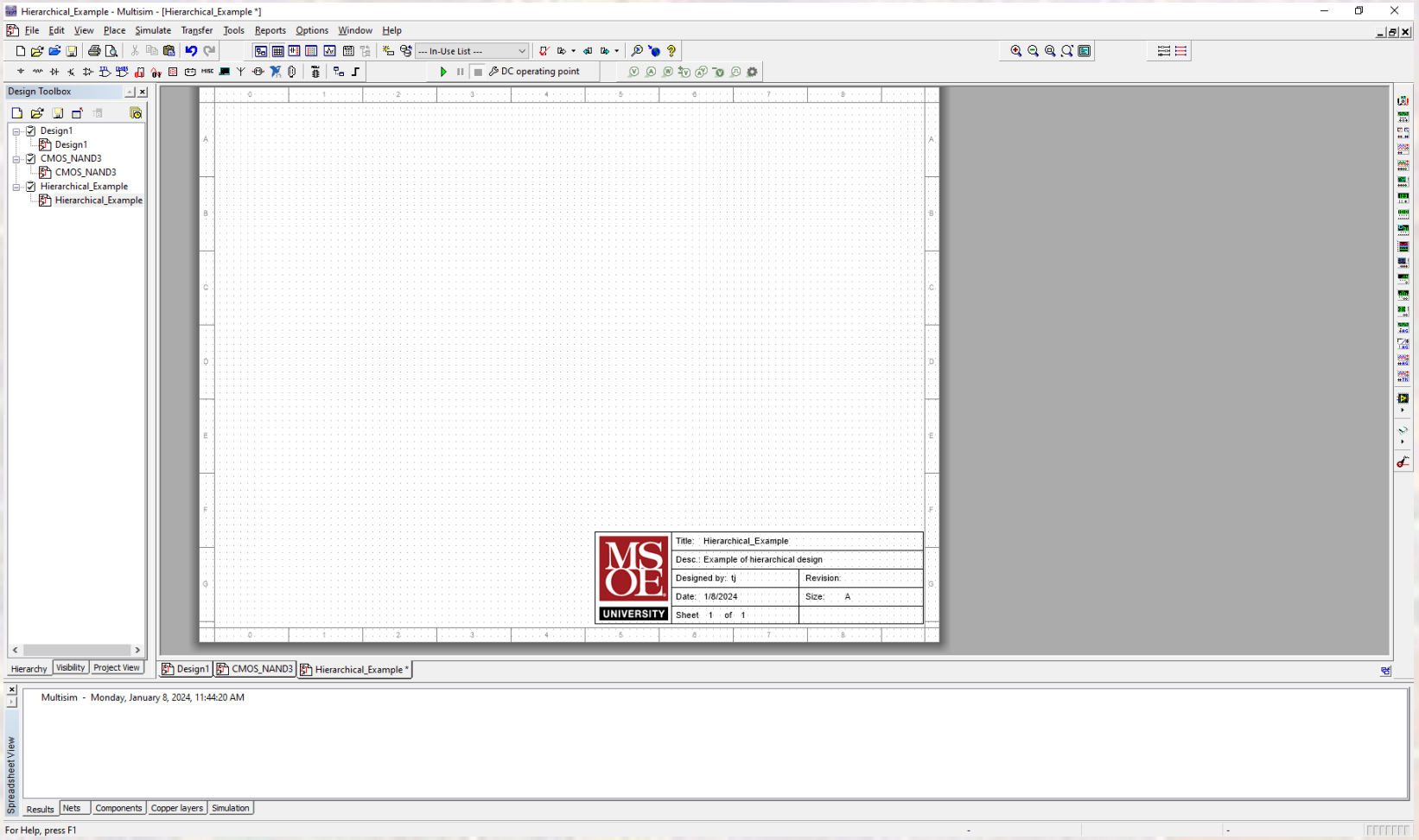
Hierarchical Design

- Create the design for the hierarchical block
  - Use hierarchical connectors for ALL pins
    - Place on schematic → Hierarchical connector



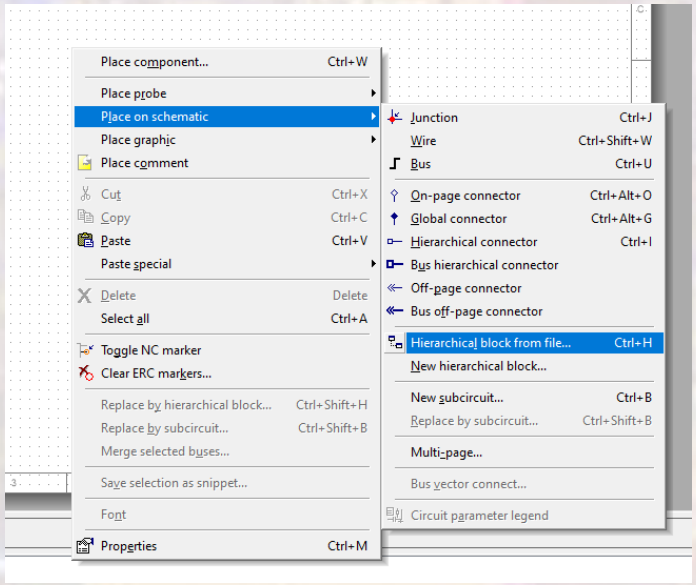
Hierarchical Design

- Open a new MSOE template schematic
  - Edit the description in the Title Block

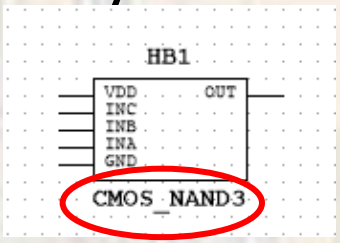


Hierarchical Design

- Rt-Click and select Place on schematic → Hierarchical block from file …

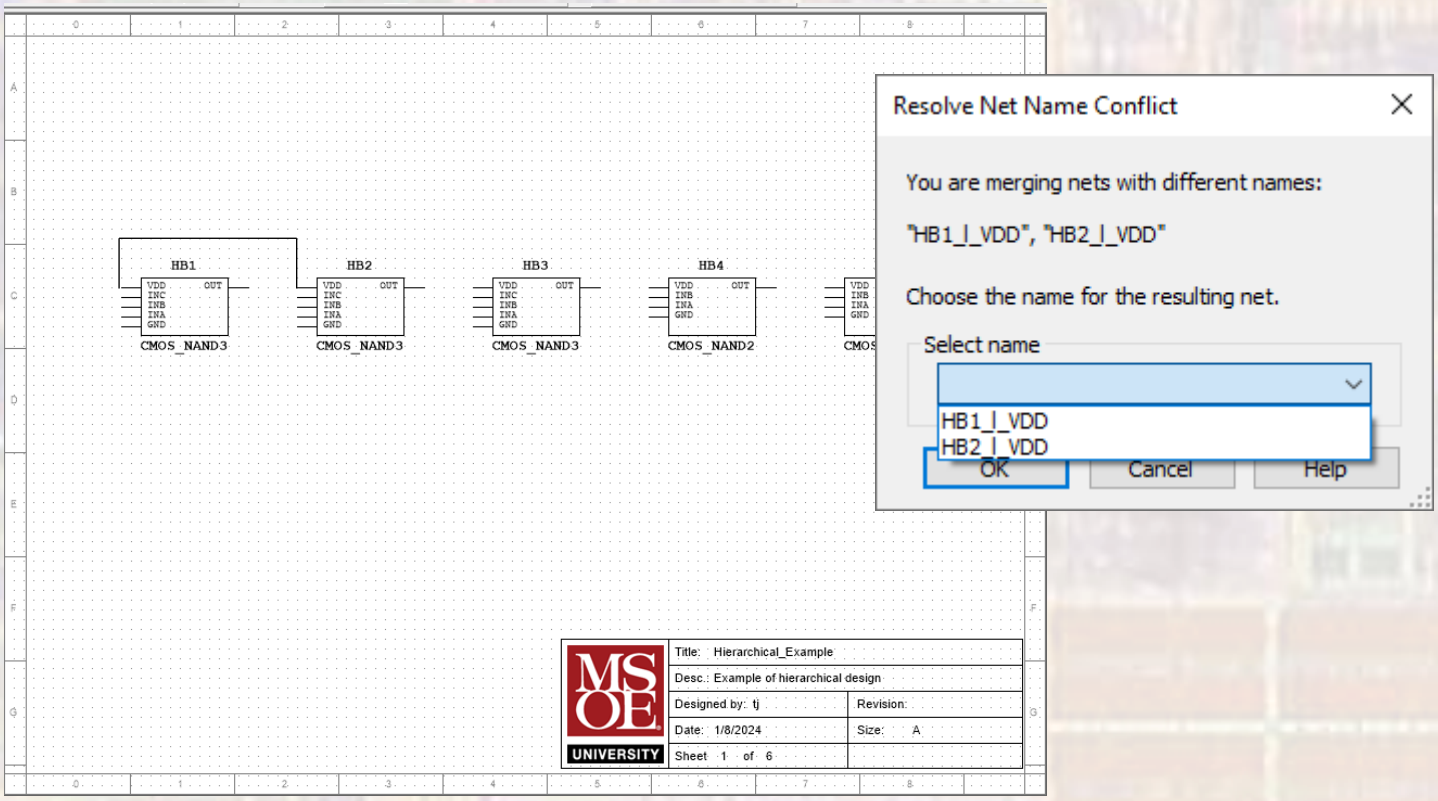


- Select the file you want to create a block for



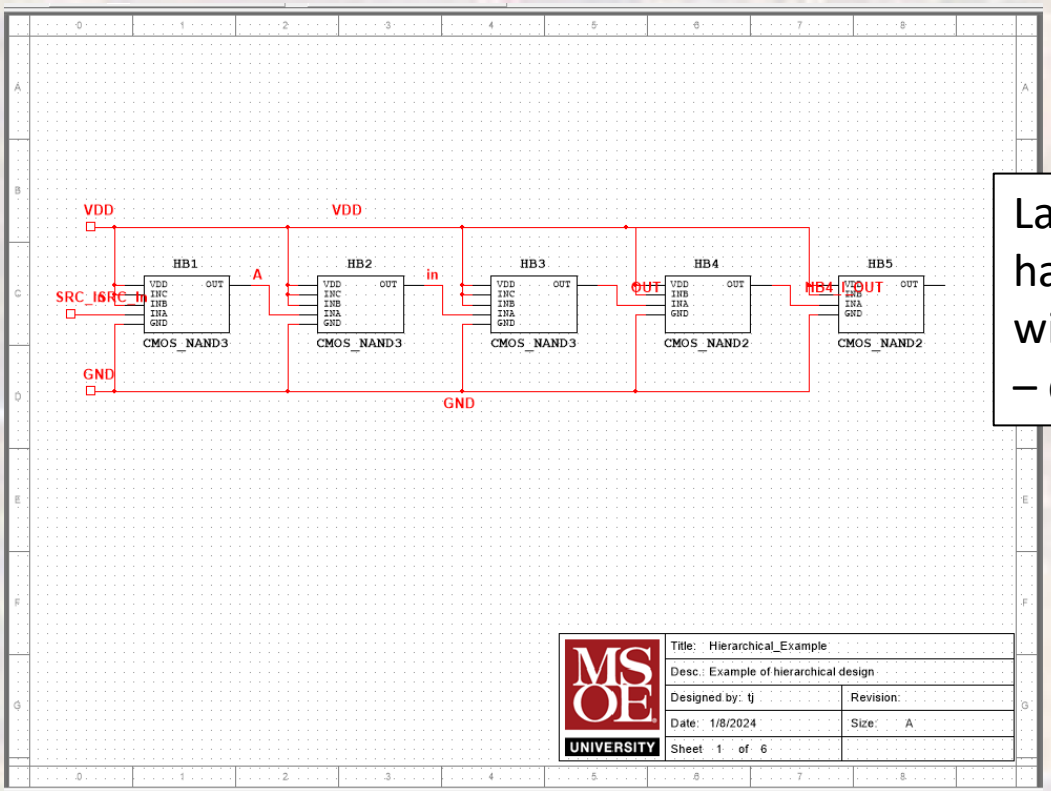
Hierarchical Design

- Repeat as necessary
- When you start wiring blocks – you will be asked to choose which net name you want to use – this is up to you



Hierarchical Design

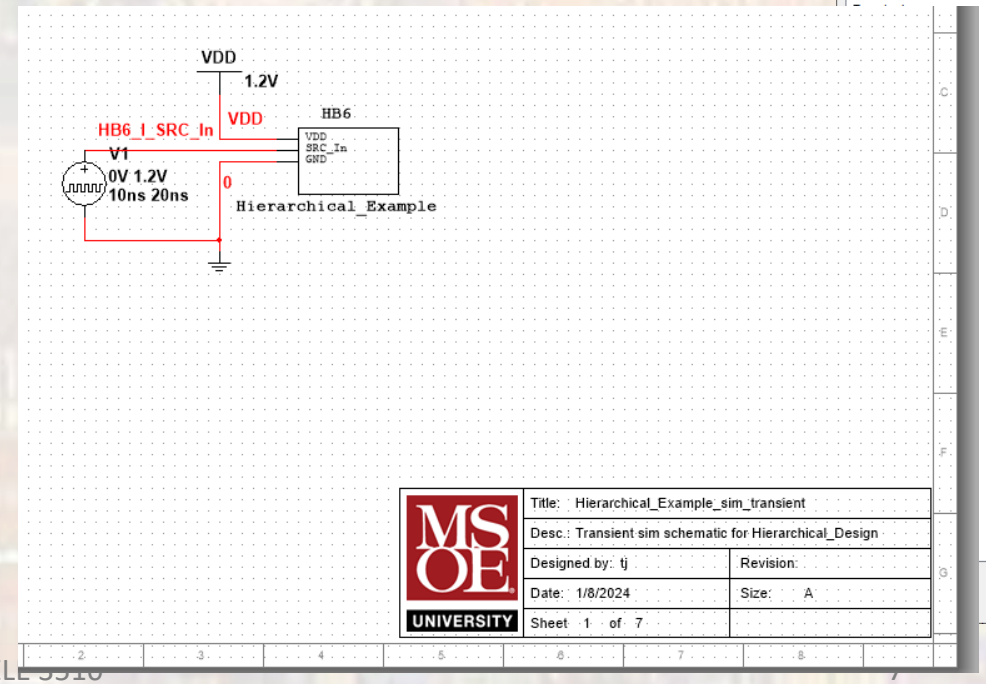
- Use hierarchical connectors for the external connections
  - You can change the net names by double-clicking on them and changing the names

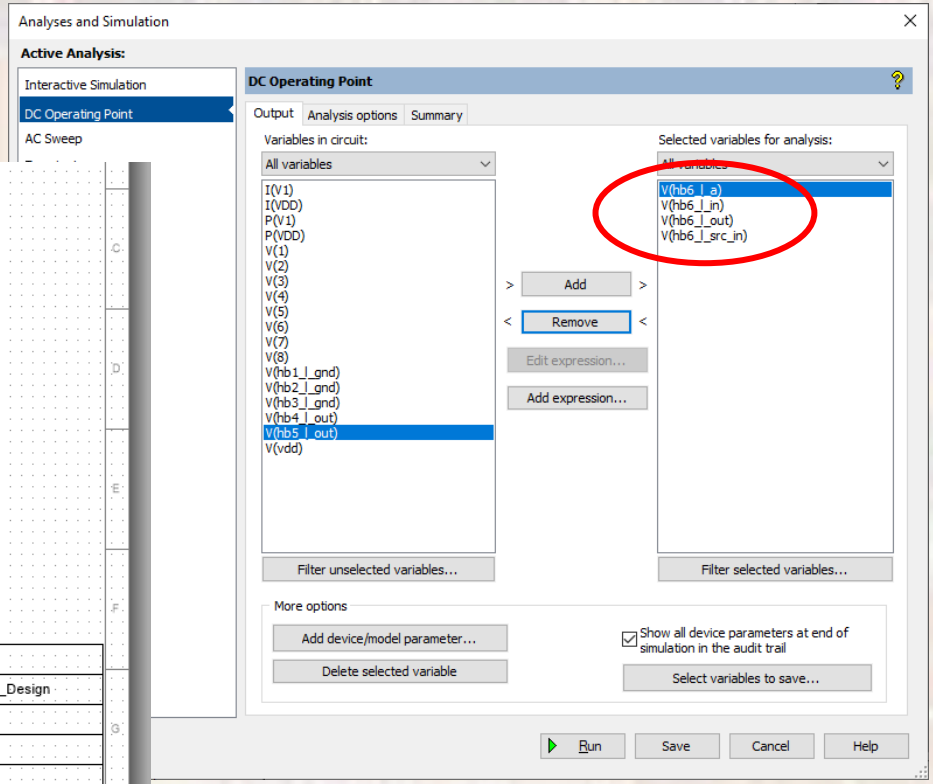


Labels are very hard to work with in MultiSim – do your best

Hierarchical Design

- Create simulation specific schematics as necessary
  - Placing your new hierarchical design in the simulation schematic
  - Note – simulation outputs are now referenced hierarchically





Hierarchical Design

- Simulate