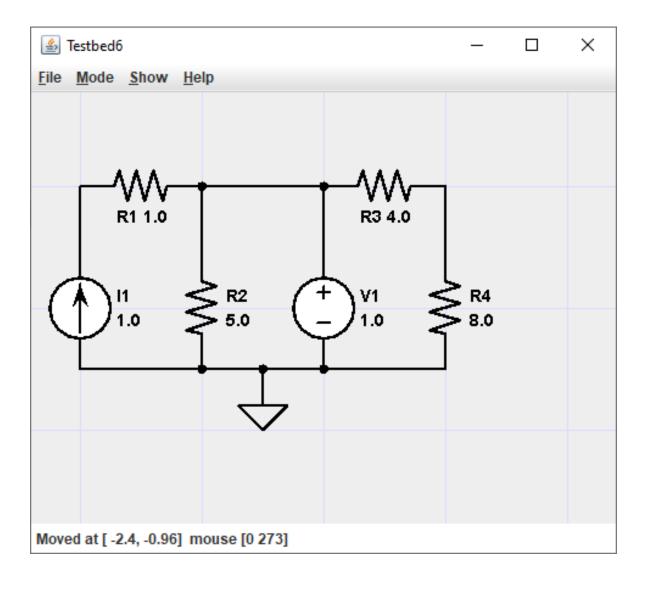
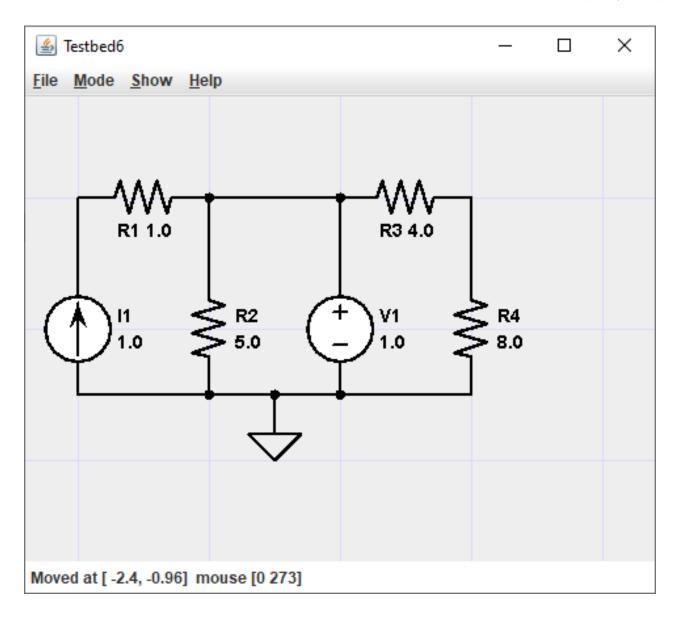
Testbed6



Testbed6 combines six separate programs.

- 1. Draw devices (e.g. TestDrag)
- 2. Draw wires
- 3. Explore nodes (connected wires)
- 4. Show netlist
- 5. Show circuit solution
- 6. Show help page (html doc)

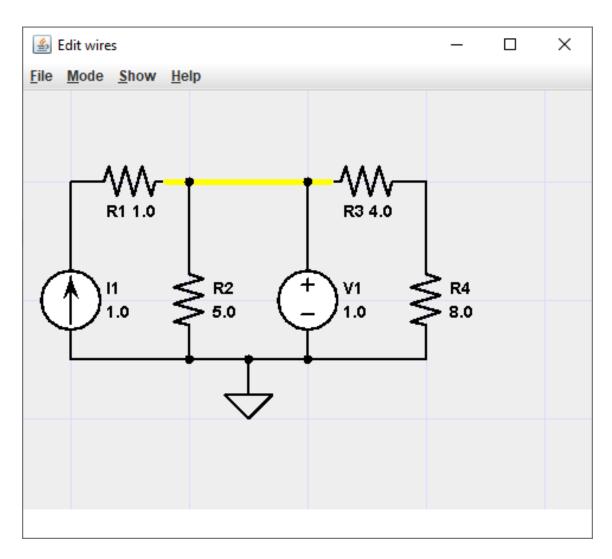
Devices



Four devices are provided

- 1. Resistors
- 2. Voltage Sources
- 3. Current Sources
- 4. Ground

Wires



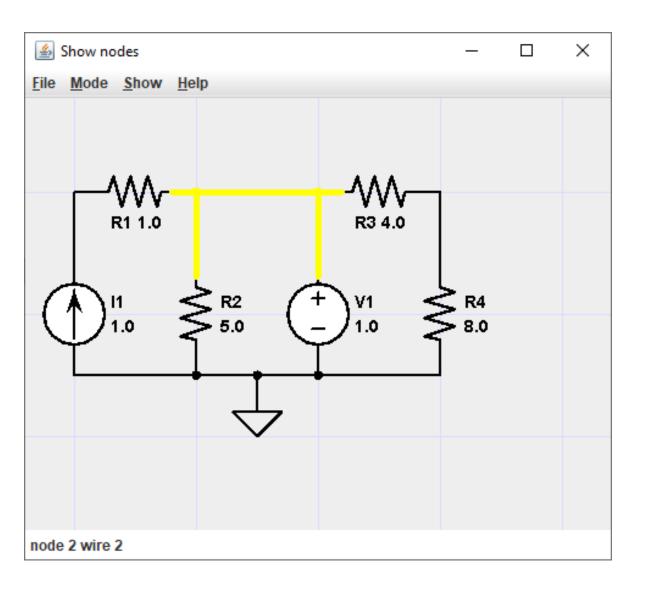
The wire shown is wire 2

Wires connect devices (and other wires)

- 1. W -2 0.3 -2 1 -1.8 1
- 2. W -1.2 1.0 0.2 1.0
- 3. W -1.0 0.3 -1.0 1.0 *
- 4. W 0.8 1 1 1 1 0.3
- 5. W -2 -0.3 -2 -0.5 1 -0.5 1 -0.3
- 6. W -1 -0.3 -1 -0.5 *
- 7. W 0-0.3 0-0.5 *
- 8. W 0 0.3 0 1 *
- 9. W -0.5 -0.7 -0.5 -0.5 *

There are nine wires present, those marked by an asterisk denote connections to other wires.

Nodes

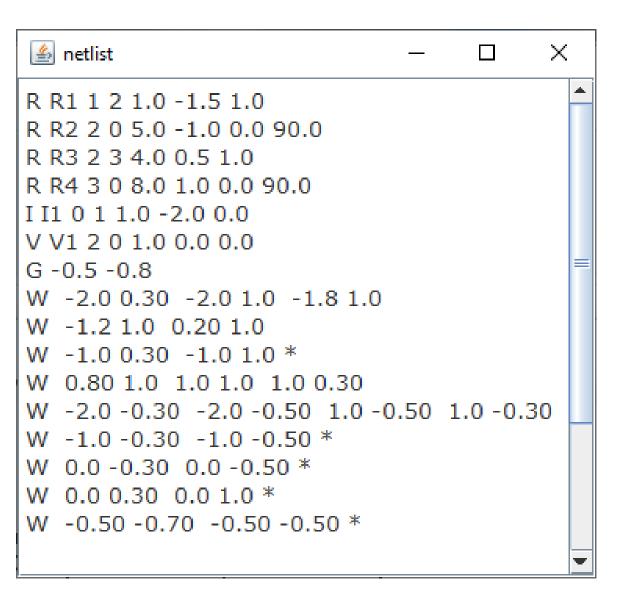


Node 2 shown here is defined by wire 2, which connects R1 and R3 wire 3 (connecting R2 to wire 2) and wire 8 (connecting V1 and wire 2).

Stubs are wires that connect a device to a wire. They are denoted by asterisks in the netlist.

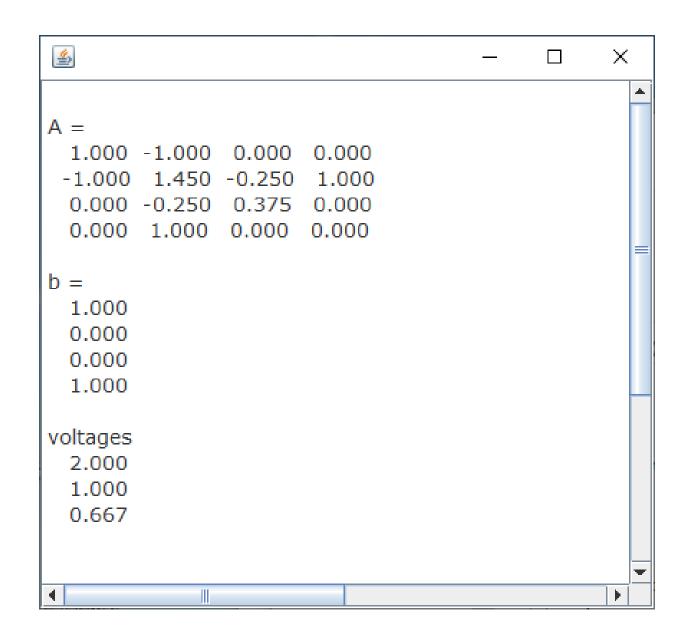
Wires connected to ground are assigned a node value of zero.

Netlists



Netlists show devices and wires. The device list shows node assignments, which makes it possible to solve the circuit without necessarily drawing the wires.

Circuit Solution



View Help



×

There are three modes of operation:

Devices

This mode allows the user to insert components (resistors, sources, ground) into the circuit. Use the popup menu to choose the type of component. The Control-R key will rotate a selected component (shown in blue). The popup menu also allows the use of a dialog box to enter the name and value of the component.

Wires

This mode allows the user to draw wires. Wires must start at a device node and connect either another device node or an existing wire. Double click on a wire to delete it. You should draw the wires in the order you wish them numbered, although you can renumber them in Nodes mode

Nodes

This mode allows the user to review the node numbering, and change the numbering by double-clicking on a set of connected nodal wires.

The help page is an html document displayed by ViewApp.java