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- \* Note: Henceforth, “click” means a single left click, unless specified otherwise.



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- \* Editing element properties: Click on the element of interest. Click on the Property Editor tab, and edit its properties.

# Zooming, moving the canvas

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- Use the scroll bars/arrow on the east and south of the canvas.
- You can also move the canvas by clicking at a vacant spot in the canvas and moving the mouse while keeping the left mouse button pressed.



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  - If the cursor is kept on a node of an element (without clicking), the wire name is displayed. Also, the name of the corresponding element node is displayed.
  - Node names can be changed in two ways:
    - (a) Click on the wire, and use the Property Editor.
    - (b) Click on an element that the node is connected to, and change the node name using the Property Editor.



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- \* Note that both free and element-property text boxes are meant for user’s convenience only; they are ignored by the simulator and therefore do not affect simulation results.



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  - To select a node voltage (or a general variable), click on the wire.
  - To select an element variable, click on the element and then select the variable of interest. (Note that only some of the element attributes are available as output variables, as described in the help file for that element.)





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- \* Simultaneously, in the right window, a description of the output variables gets added, e.g.,

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- \* If an output variable is to be removed, select it and click on “Delete variable.”



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- \* Note that AC variables are not useful in DC or transient analysis.



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- \* To assign a global parameter as an element property, click on the element, then on the concerned parameter (using the Property Editor). The available global parameters will appear in a drop-down menu. Select the desired global parameter.



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- \* By default, the solve section is of type DC. To change it to transient, click on the title bar of the solve section, then on Property Editor. Click on “DC”, and choose “Transient” from the drop-down menu.

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- \* Some statements expand into more complex structures when they are brought into the central window, e.g., an “output block” expands into four lines. By clicking on the output block (in the central window), output variables can be selected using the Property Editor.



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- \* Click on the output file name, select the x and y variables, and click on the “Graph it” button to view the plot.
- \* Further information on using the GUI, options available for the solve sections, etc. are described in the Users’ manual (which can be viewed by clicking on the Help button in the top menu).