1 \hspace{1cm} \textbf{NOVA Cursors}

- Cursor(s) can be created by clicking in the white space just above the bottom scroll bar. They are helpful in lining up signals.

- Clicking the left button creates one cursor. Call it the left cursor.

- Shift click of the left button creates another cursor. Call it the right cursor.

- The number at the bottom of each cursor is the time step number at the position of the cursor.

- Left click on (or near) the bottom of the left cursor allows it to be positioned (dragged).

- Right click on (or near) the bottom of the right cursor allows it to be positioned (dragged).
2 NOVA Busses

- Busses can be created by clicking Edit→Create Bus
  - A pop up window will allow you to select signals to display as the bus.
  - Busses are always positioned at the top of the display.
  - Cursor(s) display the value of a bus as a hex number.
  - Beware!
    - Busses are displays only. They cannot be used to specify inputs.
    - Instead, specify the signals which make up the bus.
    - The order of the signal list influences the hex number displayed.

- Busses can be edited by first selecting the bus and clicking Edit→Edit Bus.

- You can reposition the selected bus at the top of display by going through the motions of editing but actually make no changes.
3 Specifying Signal Values.

- First, select the signal by clicking on the name. This selects (or unselects) the whole signal which then is blue.

- Clicking and dragging on a portion of the signal selects a portion of the signal.
  - It is sometimes helpful to use the cursor(s) to help line up the selected region.

- One can then click on Edit—> whatever to input a value.
  - It is easiest to type 1 or 0 to set the selected part of the signal to one or zero.
4  Simulating and Saving the Results

- One can change (usually lengthen) by clicking on Options→Simulation Length.

- One can zoom in or out (by a factor of two) by clicking on the desired command under the main Views menu.

- Simulation is initiated by clicking on Simulate→Execute. One can save the results by clicking on File→Write Sim.

- Reopening a *.jed file causes the display to be what it was when the *.sim file was written. Well, almost, all the signals are shown in white. One has to resimulate to get the outputs shown in red.
5 NOVA help

■ Click on the main Help menu (at the right) to get more information about using NOVA.

■ It is amusing that the help info on starting NOVA is available by clicking on the NOVA Help menu.