1 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 nuumber.
  - 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.