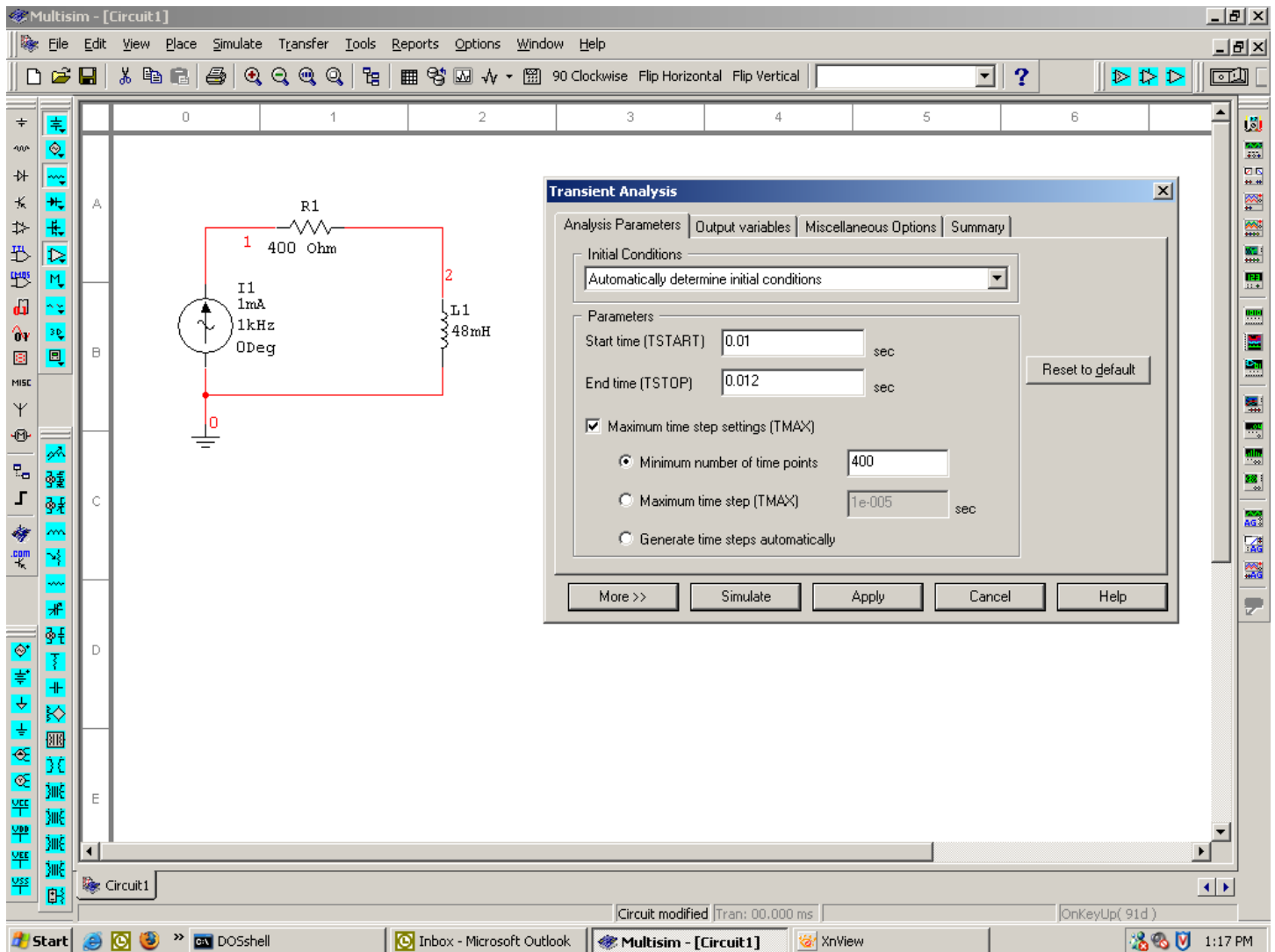
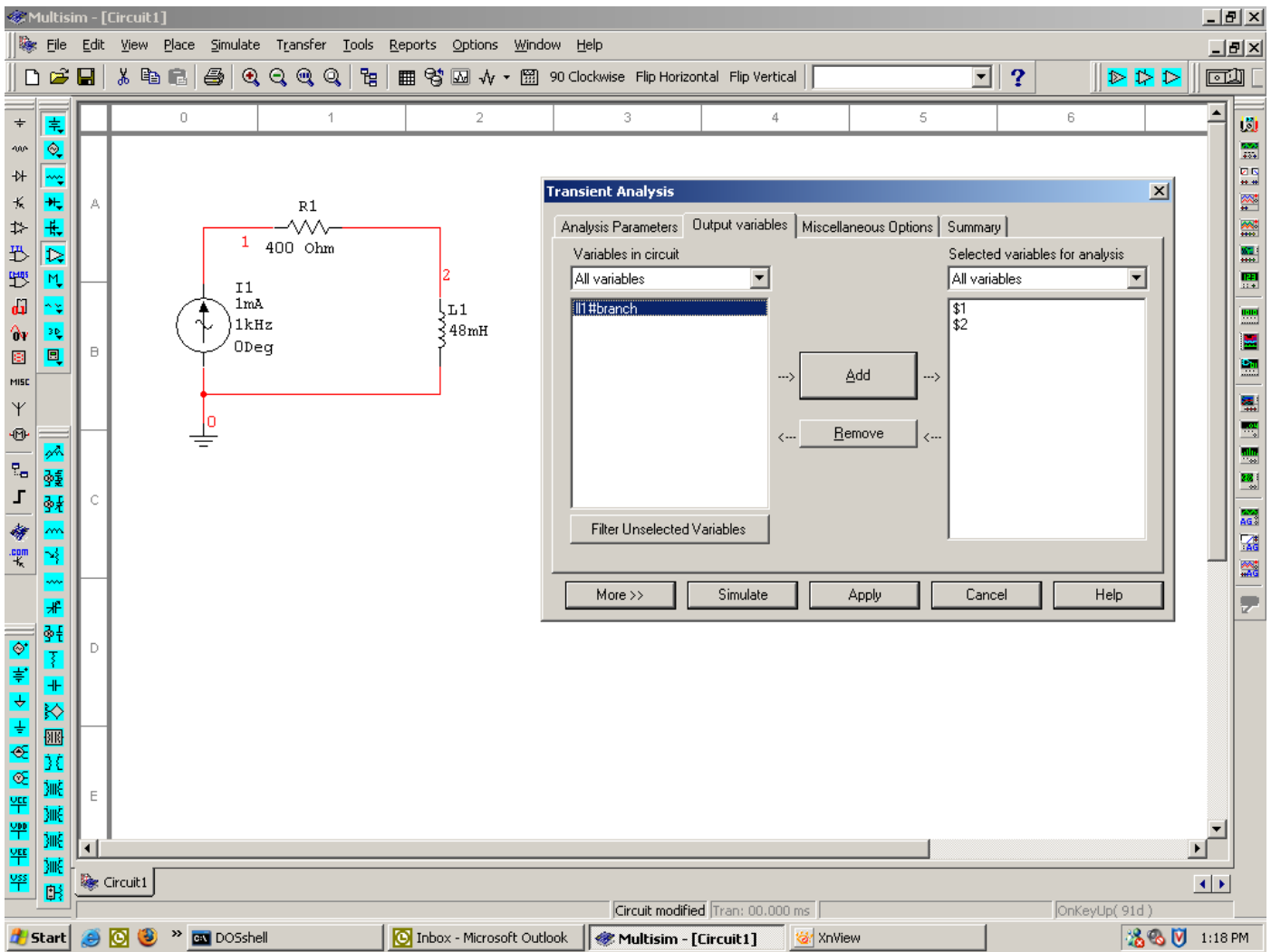


Using MultiSim to plot AC waveforms (Version 7 shown)



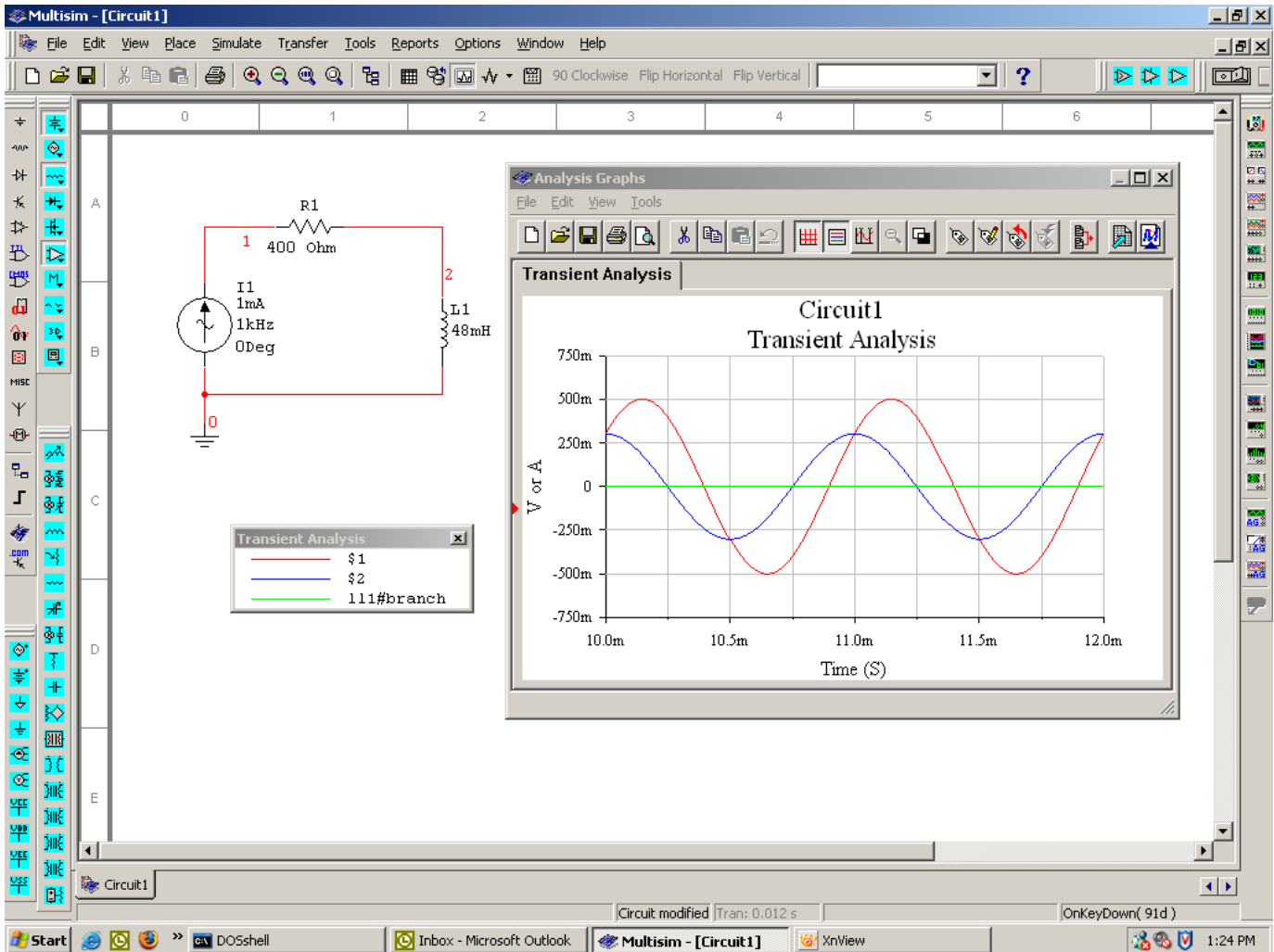
Circuit with Simulate->Transient Analysis dialog

Step one: Setting plot times. Delay Start time by several cycles to avoid turn-on transient.



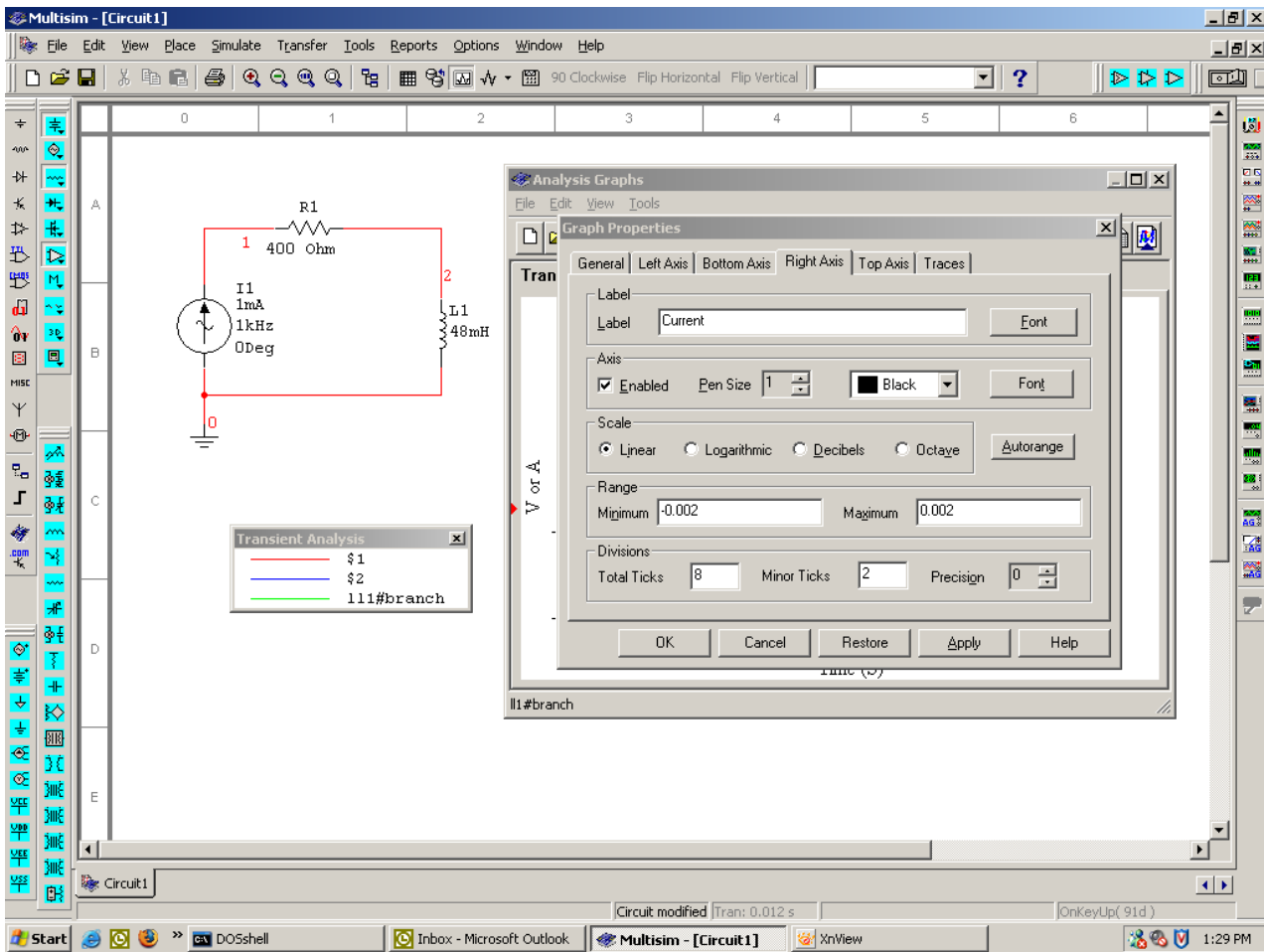
Circuit with Simulate->Transient Analysis dialog

Step two: Setting plot nodes. Select nodes from left list and add to the right list for plotting.



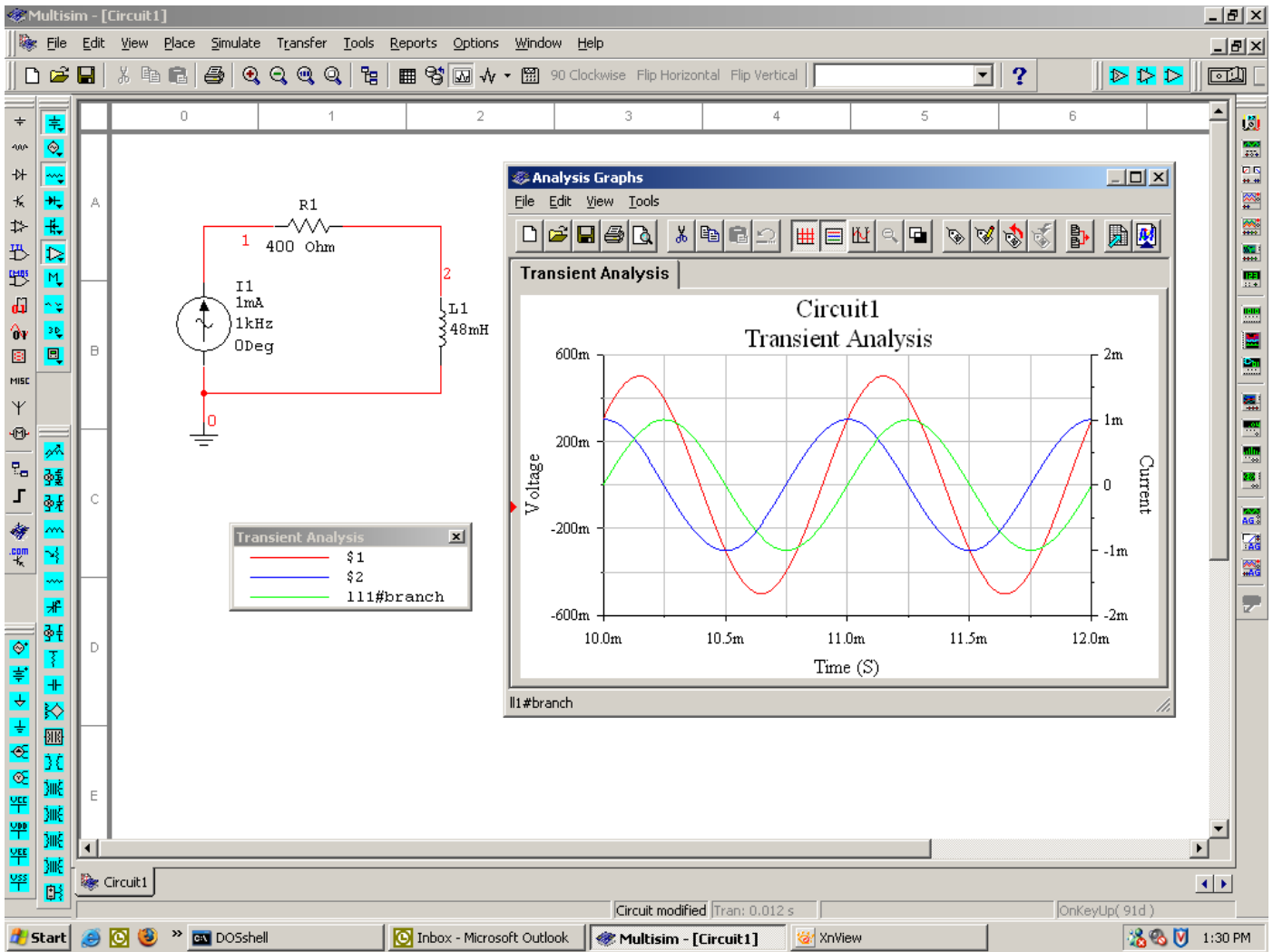
Output Plot

Current (green trace) is too small to read with accuracy and appears as a straight line at 0.

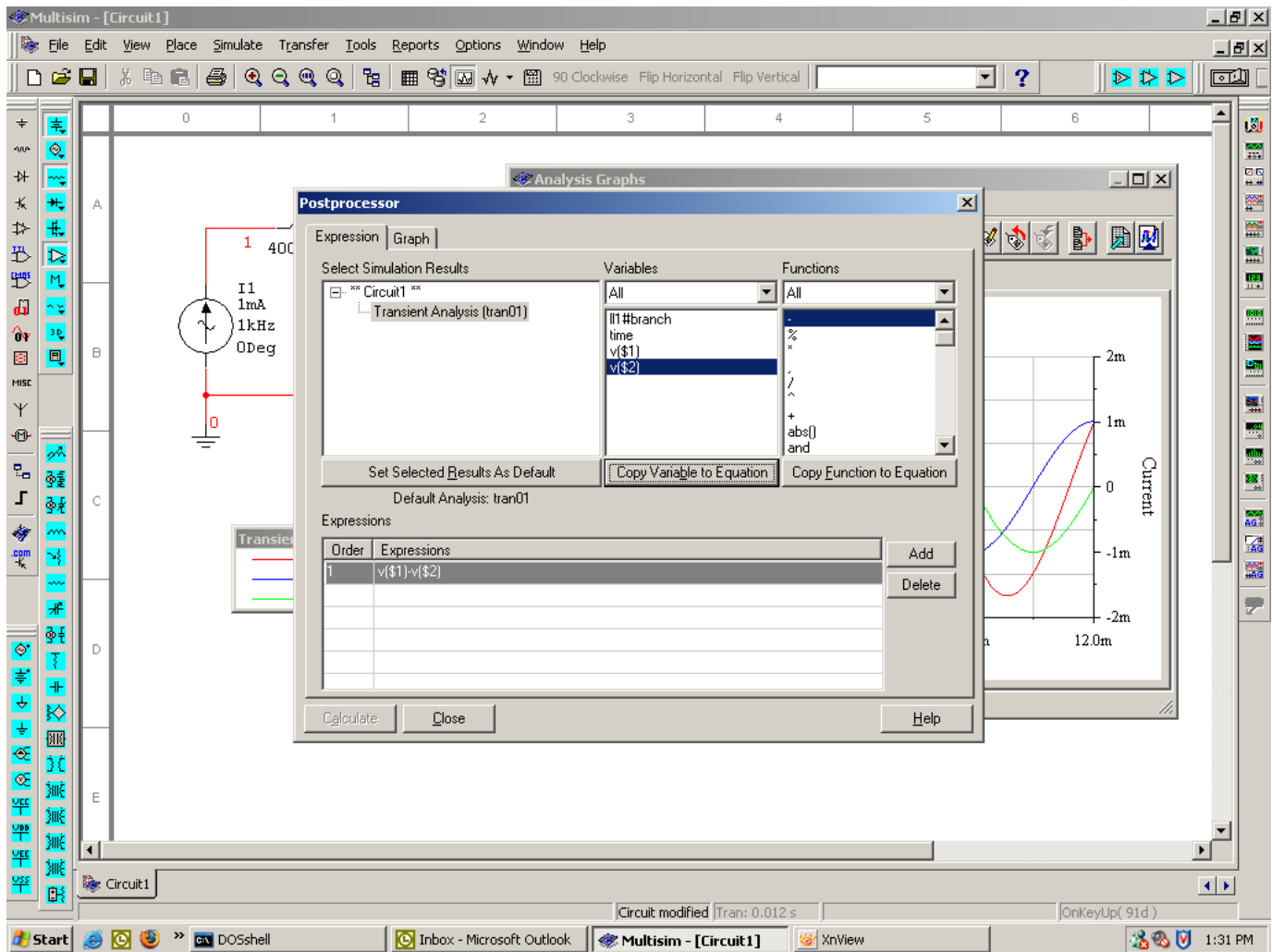


Rescaling to view current

Step one (above): Set display range for current on Right Axis tab, step two (not shown) from Trace tab, select Right Axis for current trace.

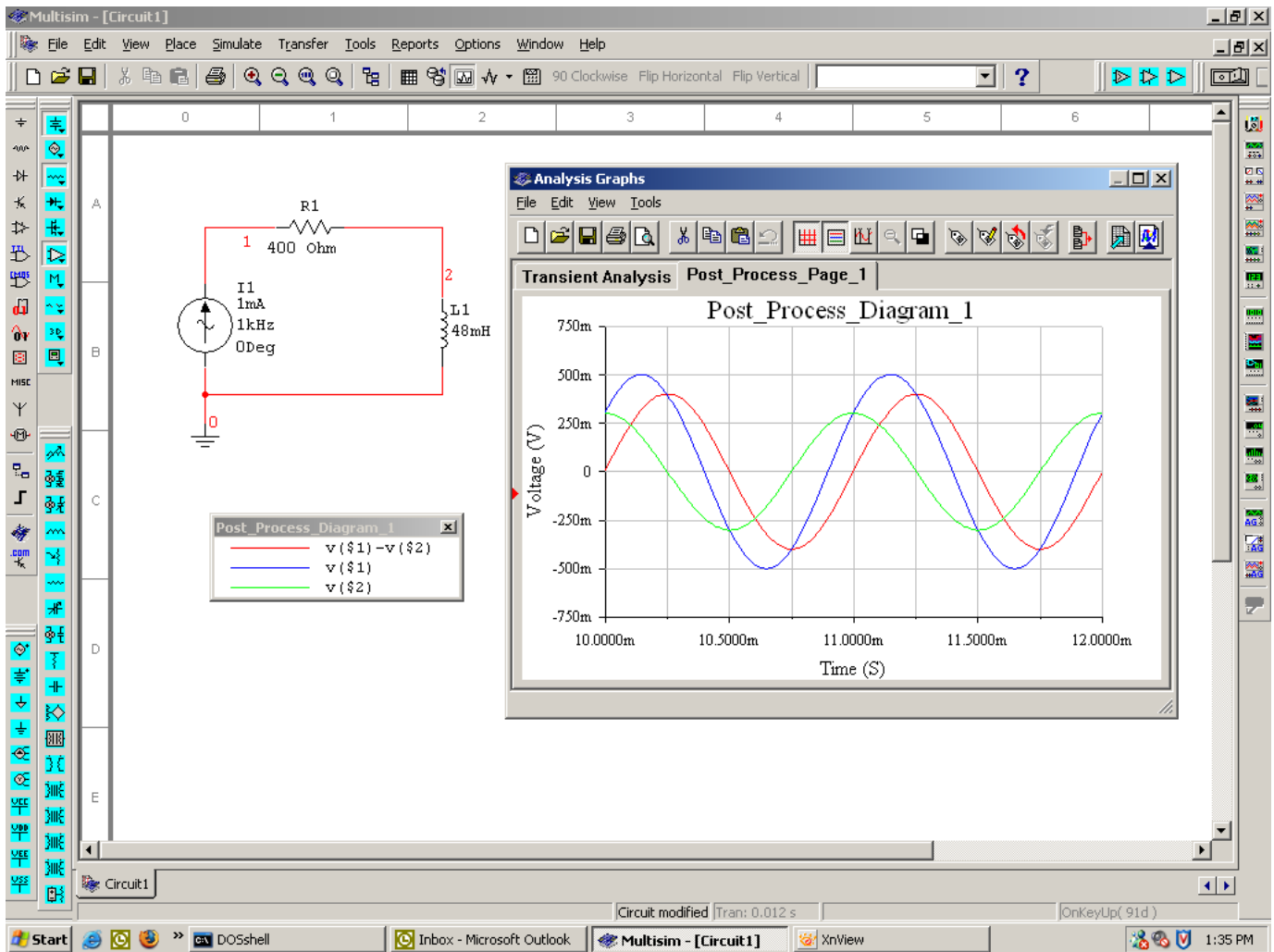


All elements are now visible, red and blue traces use the left axis while the green current trace uses the right axis. The only item not shown is the voltage across R.



Using Simulate->Post Processor to plot R's voltage (node 1 - node 2)

Create the expression from the dialog by copying the variables and math operators from the lists. When complete, use the Add button to add the expression to the plot list. Also, add the expressions V(\$1) and V(\$2) to the plot list to make these node voltages available. Then, select the Graph tab at the top of the dialog to select the items to be calculated and plotted.



All circuit voltages plotted (current no longer shown).

The original plot showing the current is still available from the Grapher (first tab, labeled “Transient Analysis”). Also, note that the Grapher allows changes to axis labels, titles, fonts, etc. and also has vertical cursors and zoom capability.