



Build a circuit schematic and simulate it

Obtained Marks: _____

Date: _____

Signature: _____

Title:

- Schematic and Simulation Environment on Cadence Virtuoso

Equipment:

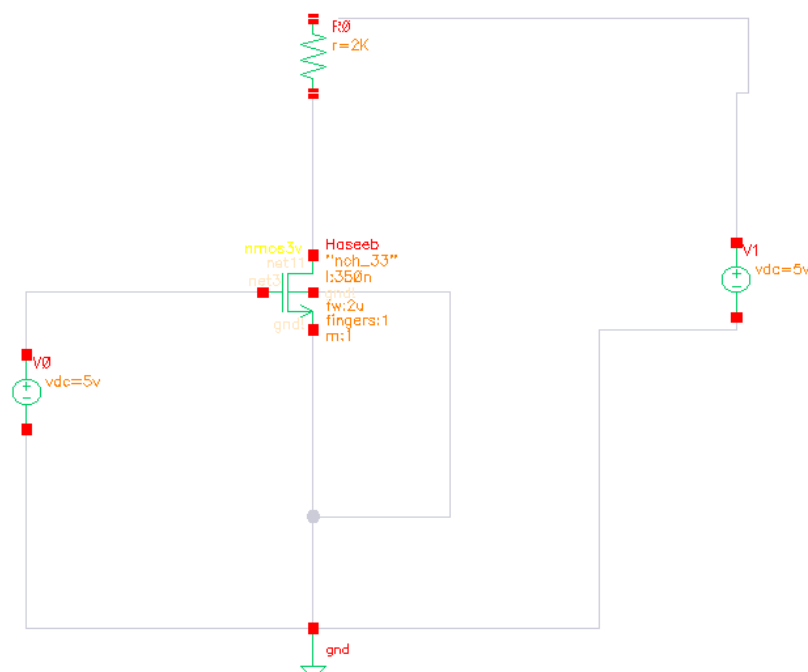
- Personal Computer
- VMware software
- Cadence Virtuoso

Introduction

In this lab we will build a circuit on Cadence virtuoso and simulate and get results in the form of a graph. We will also understand how to label and get values from any plot that is generated.

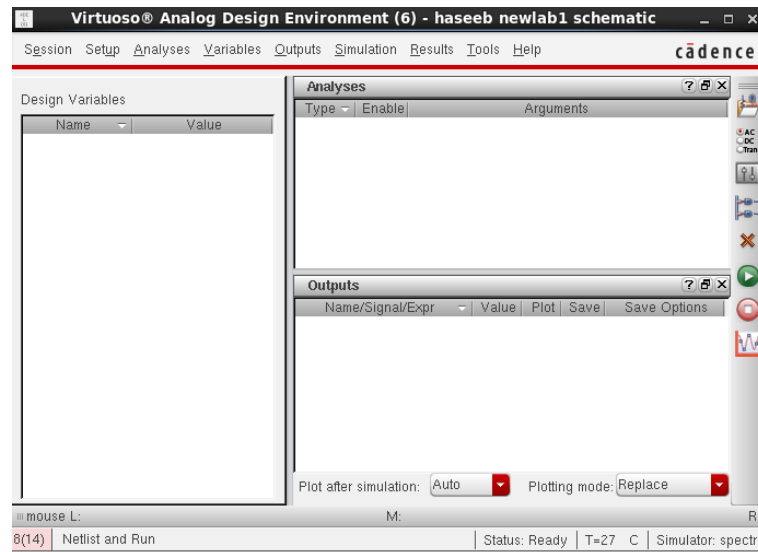
Procedure

Once circuit is built click on “**check and save**” and if nothing pops up that means there are no errors in the wire connections of the circuit. The circuit that is made on Cadence is given below

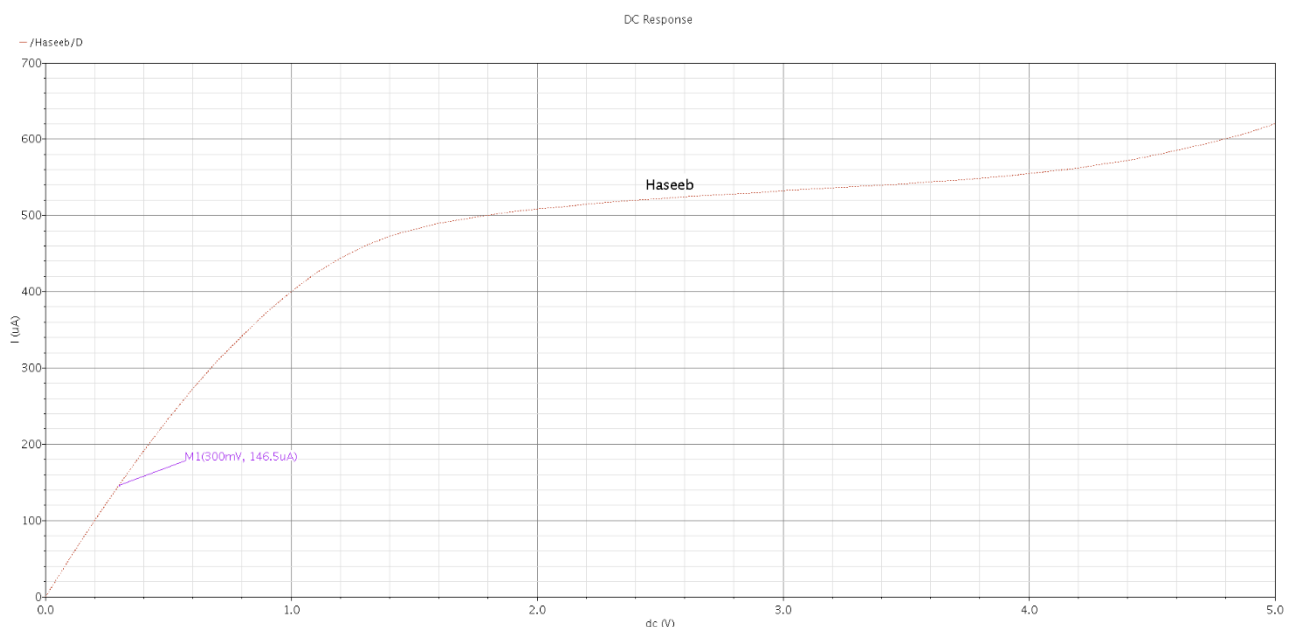


The steps to simulate are as follows:

- Click on launch and then select ADE L.



- Right click under design variable and select **“copy from cellview”**.
- Assign a value then right click on the analysis window and choose the type of analysis needed for example DC or transient.
- Select design perimeter and range and to select the value on the y axis click on output and select ‘to be plotted’ and select the point on the schematic.
- Finally click on run to obtain the graph



CONCLUSION

In this lab will learned to simulate a circuit on cadence virtuoso and to learn how to select design parameters and the variable that we need to plot on the x and y axis. We also learned how to label the graph with string values and how to label specific points on the graph.