

1 Setting up the Virtual Machine

In the guided session, you will work with a Virtual Machine which has been set up with the required LTSpice installation, Python Libraries and MOS model libraries to help simplify device characterization.

The Virtual Machine can be downloaded from Brightspace. Importing this Virtual Machine has been tested with VirtualBox 6 to be verified working¹. In order to import the Virtual Machine with VirtualBox 6:

1. Open VirtualBox
2. Click File → Import Appliance
3. Select the downloaded Virtual Machine from Brightspace
4. Click Next
5. Click Import

If you run into errors, please first verify that you have tried importing the Virtual Machine with VirtualBox 6 and if errors persist send an email to the TA's.

Once the Virtual Machine is successfully imported, we can start up the Application:

1. Start up the Virtual Machine, this initially might take a while
2. If asked to sign in, sign into the 'student' account with password:electronics
3. The application should open by default. If this does not happen, double click on 'start.sh' and press execute.
4. Click on 'LTSpice Python Plot Demo.ipynb' to start the first application

Once the python notebook has been opened, you can press the play button or CTRL+ENTER to run a piece of python code. It is also possible to run all cells by clicking on 'cell → Run All' to run all the cells, this should execute without error.

The password of the student and root account is 'electronics' in case the user gets logged out.

¹<https://www.virtualbox.org/>