

2022-07-31 V2.1

QUCS-S 0.24

main link to the developer's website: <https://ra3xdh.github.io/> (This is only for your reference. Please use the installer file that we provide you in the Canvas website)

INSTALLATION

WINDOWS:

Use the Windows installer (qucs_s_win64_0_0_24.zip) available in the Canvas website. You just need to unpack the file in a folder.

LINUX:

create a directory and clone the repository:

```
$ mkdir qucs_24
$ cd qucs_24
$ clone https://github.com/ra3xdh/qucs_s
```

```
$ cd qucs_s
```

Follow the build instructions in the README.ms file:

```
$ mkdir builddir
$ cd builddir
$ cmake ..
$ make
$ sudo make install
```

MAC:

Students have reported that QUCS-S can run using wine, however we do not have MacOS and therefore we have not tested it. We recommend you to install a Windows or Ubuntu VirtualBox and install the tools as described above.

NGSPICE

Main link: <https://ngspice.sourceforge.io/> (This is only for your reference. Please use only the installer that we provide you in the Canvas website)

WINDOWS:

Download the Windows installer (ngspice-37_64.zip) from the course page in Canvas and unpack it.

MAC:

Download the ngspice-37.tar.gz file, unpack it and follow the compilation instructions in the INSTALL file (section 10 "NGSPICE COMPILATION UNDER macOS"). Alternative, try to use the Windows version under wine.

LINUX:

Download the ngspice-37.tar.gz file, unpack it and follow the compilation instructions in the INSTALL file. In short, enter into the unpacked directory and do the following:

A fully featured ngspice on LINUX may be obtained with the following commands:

```
$ mkdir release
$ cd release
$ ../configure --with-x --enable-xspice --disable-debug --enable-cider --with-readline=yes --enable-openmp
$ make 2>&1 | tee make.log
$ sudo make install
```

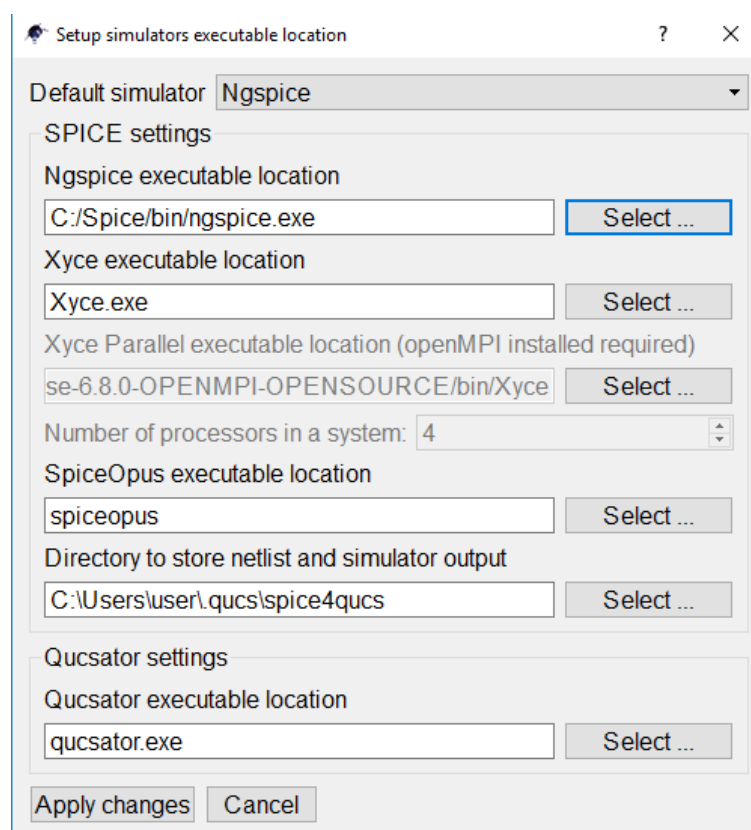
ANALOG ELECTRONICS MATERIAL

Clone or unzip the following repository

https://github.com/saul-rodriguez/QUCS_ANALOG_ELEKTRONIK

QUCS-S CONFIGURATION

Open Qucs-S and go to Simulation → Select default simulator. Select “**Ngspice**” and also change the “**Ngspice executable location**” to where ngspice.exe is located. For instance if you install ngspice in a Windows in C:/, then the complete path is [C:/Spice64/bin/ngspice.exe](#). You may need to restart Qucs-S so that the changes are applied.



Then go to File → Application Settings and change the path in “**Qucs Home:**” to the path to the course material that you downloaded/cloned from github.

