

# Device Tree vtechstudy

## Windows Addendum

If you are using a Windows laptop to work on the DTB vtechstudy, please review this document for Windows specific steps

You must have a working Cygwin installation on your laptop that includes basic development support, e.g. C compiler.

Install Windows version of git from here: <https://git-scm.com/download/win>

Pulling the example code from github will be easier with the git bash shell.

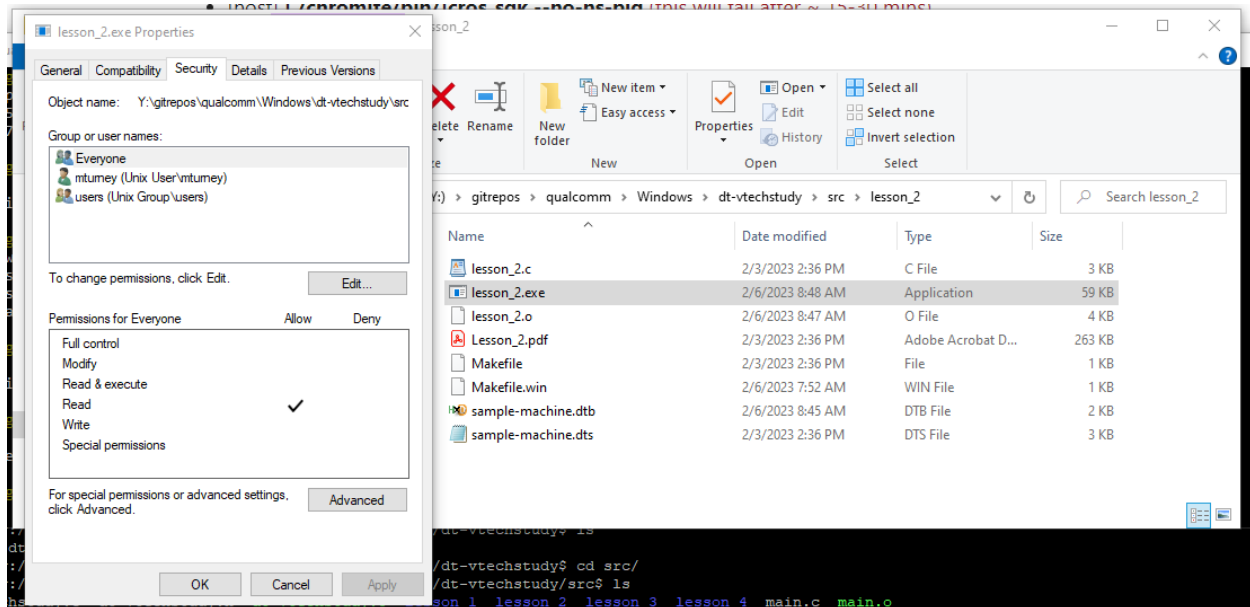
Each of the study guide lesson folders has a Makefile.win that should be used, e.g. instead of **make**, you have to do **make -f Makefile.win**.

When you try to execute the resulting .exe file, you will get this error:

```
# ./lesson_2.exe -f sample-machine.dtb
```

```
bash: ./lesson_2.exe: Permission denied
```

In Windows Explorer, right-click on .exe file, select properties | Security tab:



Note that only Read permission is checked, use Edit button and add Read & execute, Apply & OK.

You will have to do this whenever you compile new .exe file.

When you are asked to run a command with gendtb.py you need to add -c to the command-line to specify where to find the C Pre-Processor, e.g. on my system it can be found here:  
C:\Apps\LLVM\10.0.3\bin, so this would be added to the end of command-line:

**-c C:\Apps\LLVM\10.0.3\bin.**

You are also likely to have to run the gendtb.py command from a DOS windows, rather than Cygwin, on my system the Cygwin python3 won't run and python is too old (2.5.5)