

Overview

- 3 lab tasks
- 1 course assignment

Labs take place at ITC-501 on each Tuesday, starting at 08:00. All lab works have to be completed, presented and successfully defended BEFORE examination period. Course assignment deadline – at/before examination.

Important links

<https://edu.pld.ttu.ee> [Registration for the lab]

[http://ati.ttu.ee/~skostin/Testimise Projekteerimine'S11](http://ati.ttu.ee/~skostin/Testimise_Projekteerimine'S11) [Lab materials]

<http://www.pld.ttu.ee/testing/> [Introduction To Testing]

<http://pld.ttu.ee/applets/td/Testing.jar> [Testing applet JAR]

[http://www.pld.ttu.ee/magister/terje diplom.pdf](http://www.pld.ttu.ee/magister/terje_diplom.pdf) [Cadence manual/EST]

Work environment

Linux: SuSE Enterprise

Don't forget to save/move your local files and log out after you are done.

Lab tasks are performed using Java applications, command line is only used to get them running.

Course work relies heavily on command line utilities (ie. actual Turbo Tester).

Important tips

* Turbo Tester activation (command line ie. Terminal and bash shell):

```
export TESTER=1  
cad
```

* Cadence setup (bash shell)

```
cad  
cad [select 0]
```

NB! Cadence **WON'T WORK** properly on your M, P or W drive! Copy/move your files to local filesystem first (make a subdirectory into /tmp/ and copy them back after you have done. Always monitor the free space on your personal drives.

* BISTA setup – do the same as for Turbo Tester

Open Configuration panel and set paths as follows:

Circuits: **/cad/bista/circuits/t**

Turbo Tester: **/cad/bista/bin/ttUNIX**

BISTA has following known bugs/shortcomings:

- Working path shall not contain any '.' in directory names. Be aware that your home root is named like this!
- Underlying commandline tools do not recognize Windows share mounts (ie. paths starting with \\servername\share\directory).
- 'Detect loops' option may miss actual short loops that do not return to initial seed value.
- Application tends to develop drastic slowdowns when doing Reseeding/Hybrid BIST experiments. Restarting the application seems to be the only solution right now.