

# LABS 02207 - GENERAL INSTRUCTIONS

## SoC databar (322.229)

The PCs must run the Linux operating system. After the first login with one of the accounts `dtXX`, you **MUST** change the password as explained below.

## E-databar

The PCs in the E-databar must run the Linux operating system.  
After login, you have to connect to one of the six servers:

`eda1.imm.dtu.dk` - `eda6.imm.dtu.dk`

to run the software.

Use the following set of commands to connect to one of the servers:

```
xhost LOCAL:
ssh -l dtXX edaY.imm.dtu.dk -X
```

where `dtXX` is your group name/number and `edaY.imm.dtu.dk` is one of the IMM servers.  
the number **Y** in `edaY.imm.dtu.dk` is computed as follows:

$$Y = (XX \bmod 6) + 1$$

That is, take your group number, compute the remainder of the division by 6, and add 1. For example if you are group 16:

$$(16 \bmod 6) + 1 = (4) + 1 = 5$$

Command:

```
ssh -l dt16 eda5.imm.dtu.dk -X
```

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## Password

Ask the TA for the initial password for your account.

After you have done login to one of the `edaY.imm.dtu.dk` or `csdbarYY.imm.dtu.dk` machines for the first time, you **MUST** change the password. Use the command

`yppasswd`

and follow the directions.

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## TUTORIAL SET-UP

Before starting the tutorial, you have to create a working directory and set-up the proper working environment. First, you need to copy the provided VHDL and configuration files in a working directory called, for example `tutorial`

```
cp -r /apps/misc/02207/tutorial .    (do not forget the "dot")
cd tutorial
```

Also you can set-up the environment variable containing the path to the setup scripts, as follows:

```
setenv SCRIPTBOX /apps/misc/02207/scripts
```

### SIMULATION SET-UP

To set-up the simulation environment (ModelSim) type:

```
source $SCRIPTBOX/setup_modelsim.csh
```

### SYNTHESIS SET-UP

To set-up the synthesis environment (Synopsys) type:

```
source $SCRIPTBOX/setup_syn2005.09.csh
```

### LAYOUT SET-UP

To set-up the standard cell layout environment (Cadence Encounter) type:

```
source $SCRIPTBOX/setup_soc.csh
```

You can proceed as indicated in the tutorial.