



## Computer facilities

- Your CID accounts are valid in the MT13 Linux computer lab in the M-building. There is no ssh access to those computers.
- Remote access can be done through:

```
ssh -XY -l <CID> remote1.student.chalmers.se
ssh -XY -l <CID> remote2.student.chalmers.se
ssh -XY -l <CID> remote3.student.chalmers.se
ssh -XY -l <CID> remote4.student.chalmers.se
ssh -XY -l <CID> remote5.student.chalmers.se
(where <CID> is your user name at Chalmers)
```

- Student accounts and temporary accounts only have 1GB disk. You can use /scratch to temporarily store larger files, but they will automatically be removed after 168 hours.
- You should be able to do an ssh to your own computing facilities and work there if you like.



## Recommended set-up the OpenFOAM environment

In the file ~/.bashrc, type on one line:

Open a new terminal window and type the following:

```
OF16x which icoFoam
```

## You should get:

/chalmers/sw/unsup/OpenFOAM/OpenFOAM-1.6.x/applications/bin/linuxGccDPOpt/icoFoam

Test if this works both when doing a remote login and when doing a login in MT13 and opening a new terminal window.

~/.profile is used when logging in, and ~/.bashrc is used when opening a new terminal window, or when running a bash script. You might have to do:

```
cd
ln -s .bashrc .profile
```





## Create the run-directory and find documentation

• In a terminal window, type:

```
mkdir -p $HOME/OpenFOAM/$USER-1.6.x/run
This is where you will put your case files.
They may be located elsewhere, but this is the default location.
```

• The OpenFOAM documentation can be found by typing either of the following:

```
acroread $WM_PROJECT_DIR/doc/Guides-a4/UserGuide.pdf acroread $WM_PROJECT_DIR/doc/Guides-a4/ProgrammersGuide.pdf
```

Now we will go through the icoFoam/cavity tutorial, in the UserGuide, in detail, to show the basics of using OpenFOAM solvers.