#### How to test on IFI machines

To get more insight, it is a good idea to test on different machines. I have therefore written a short guide on how to test on IFI machines using scp and ssh.

## 1. Copy your files to your UiO user

This can be done using secure copy scp.

```
scp [-r] local_file_path username@login.ifi.uio.no:~/remote_file_path
```

The brackets indicate an optional argument. Use -r if you need to copy directories.

Type the command in your terminal using your UiO username and type your UiO password when prompted.

#### 2. Log in to an IFI machine

This can be done using ssh:

```
ssh username@login.ifi.uio.no
```

Type the command in your terminal using your UiO username and type your UiO password when prompted.

Find the directory where you placed your files and start testing!

### Tip 1: Get CPU specs of the IFI computer

To get the CPU specifications of the IFI computer you are using, in the terminal type:

```
lscpu
```

Here you can find the sizes of the cache, the CPU model, the number of cores and many other things.

# Tip 2: Computer with 64 logical cores

There is a computer called margir at IFI that has 64 logical cores. Note however, that it is most likely slower than your computer. If you would like to run your program on it then:

- 1. Perform ssh as described in step 2. This needs to be done as you need to be on IFI network to access margir.
- 2. Perform ssh again to access margir like this:

```
ssh margir.ifi.uio.no
```

Type UiO password when prompted.

3. Type the command top to check that no one else is using the computer at the moment (you will see another username at the top). If someone else is running their program, come back in 15 minutes. This means that you also should not run tests that take longer than about 15 minutes. PS: to stop top, simply press q.