

PCD Homework1

To compile the server project for use in ubuntu 18.04 the following command must be run:

```
dotnet publish -c release -r ubuntu.18.04-x64 Homework1Server.csproj
```

Then copy Homework1Server\bin\release\netcoreapp2.1\ubuntu.18.04-x64\publish folder on the linux machine and run following command:

```
./Homework1Server [Options]
```

Options:

- p, --protocol=VALUE TCP or UDP
- s, --sendType=VALUE Stream or StopAndWait
- b, --blockSize=VALUE The size of a single block that is transferred
- d, --outDir=VALUE Path to where the files will be copied to
- h, --help show this message and exit

For the client a similar procedure must be used, only "Homework1Server" must be replaced with "Homework1Client"

Location	Protocol	Send Type	Block Size	Blocks Sent	Bytes Sent	Blocks Recevied	Bytes Recevied	Time
Local	TCP	Stream	1024	746905	763178982	746508	763178982	300 s
Local	TCP	StopAndWait	1024	746905	763178982	746905	763178982	494 s
Local	UDP	Stream	1024	746906	763178982	746906	763178982	185 s
Local	UDP	StopAndWait	1024	746905	763178982	746905	763178982	707 s
Dublin	TCP	Stream	1024	746905	763178982	777594	763178982	200 s
Dublin	TCP	StopAndWait	1024	746905	763178982	746905	763178982	410 s
Dublin	UDP	Stream	1024	746905	763178982	746562	762827913	245 s
Dublin	UDP	StopAndWait	1024	272290	278284670	268544	278284670	14 h
Dublin	TCP	Stream	512	1492092	763178982	1503489	763178982	405 s

The Dublin computer was a Microsoft Azure Virtual Machine.