



Linnéuniversitetet

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Report

Assignment 3

1DV701



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1 Problem 1

```
tftp> get RFC1350.txt
Overwrite local file [y/n]? y
sent RRQ <file: RFC1350.txt, mode: octet <>>
received DATA <block: 1, size: 28>
sent ACK <block: 1>
```

```
Listening at port 4970 for new requests
clientAddress: /127.0.0.1:44353
Request: 1
Host: /127.0.0.1
Port: 44353
Incoming READ request...

=== DATAGRAM ===
- addr: /127.0.0.1
- port: 44353
- package length: 32
=====

Datagram sent!
```

1.1 Discussion

There is a need for more than just one single socket because of the initial process of getting the clients connection information. When a connection has been found, a new socket is created and connects to the address of the IP socket of the client that was gathered by the first listening socket.

If the requested file exists its data gets read into a byte array with proper indexing starting after the fourth byte. The opcode is set to 3 and the block number is 1 in the beginning bytes. The rest is the file data. This byte array is at last used to create a new DatagramPacket and is sent to the client via the sendSocket.

2 Problem 2

Place your screenshots here

2.1 Discussion

2.2 VG 1

Place your screenshots here

2.2.1 Discussion

3 Problem 3

Place your screenshots here

3.1 Discussion

3.2 VG 2

Place your screenshots here

3.2.1 Discussion