NetProg Assignment 2 Q2

1 Usage

make tftpserver
./tftpserver <port_number>
Sample use $ ./tftpserver 4873

Parameters:
port_number - port on which the server listens for connections

2 Implementation

Run an tftp server using the above command, after the server is running, make
a connection with one or more tftp clients using the default linux client. To
connect, type connect 127.0.0.1 <port_number> (if you are running the client
and server on the same system). After that, you can request for any file by
specifying the full path of the file in the server's local machine.

The tftp server responds to an RRQ by sending a DATA packet from a sepa-
rate port, on which further communications take place. If the file requested does
not exist or cannot be opened, the server sends an error of type 0, specifying
that the file could not be opened. If the file exists, the server begins transmitting
the file in blocks of size 512, and waits for an acknowledgement after sending
each block. The server waits for an ACK for each packet, re-transmitting up to
thrice with 5 second intervals, and closing the connection if no ACK is received
even then. If an ACK is received the next DATA block is sent, and so on till all
DATA is sent.