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The following file is the user manual for the udp file transfer implemented for assignment 2 for

CPSC 441.

Necessary tools to be installed:

- gcc for the appropriate OS of running computer to compile C++ code. Download gcc at: http://gcc.gnu.org/install/download.html

-Linux Operating System : The proxy has been implemented from personal MacBook Air on macOS High Sierra (Version 10.13.3). However because of macOS limitations on telnet, the proxy was tested on university computers in MS 176 - Teaching Lab, running Linux for Intel x86\_64 Architecture. We then only recommend running the proxy from this architecture and settings.

Settings and Limitations:

The UDP transfer file has been tested with the following files:

[736-byte test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/736.txt), [739-byte test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/739.txt), [1 KB test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/1KB.txt), [2 KB test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/2KB.txt), [4 KB test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/4KB.txt), [8 KB test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/8KB.txt), and [8888-byte test file](http://pages.cpsc.ucalgary.ca/~carey/CPSC441/data/8888.txt) from the Assignment Web Page. You need to download the files to the folder in which the programs are installed. The received files will be written in a new file “transmit.txt”

Running the program:

Prior to running the programs, check that you have a functional internet connection since the program does not run on the localhost but an actual IP. By default the programs run on IP 127.0.0.1 and port 5000.

Open the terminal and go to the folder of your proxy. Once there, run:

for the normal functionality:

make clean

make all

./server

The program prompts you for a file to send, enter the name of the file you wish to transfer without the extension.

in another terminal page run: ./client

The console will log which octoleg of wich octoblock you are receiving. The server automatically skips the 5th octoleg of any octoblock, and the client should request it once more once the loss detected.