

Computer network HW2

Retransmission + Congest control

How to execute

Environment: CSIE workstation

Compile: run makefile

Execute:

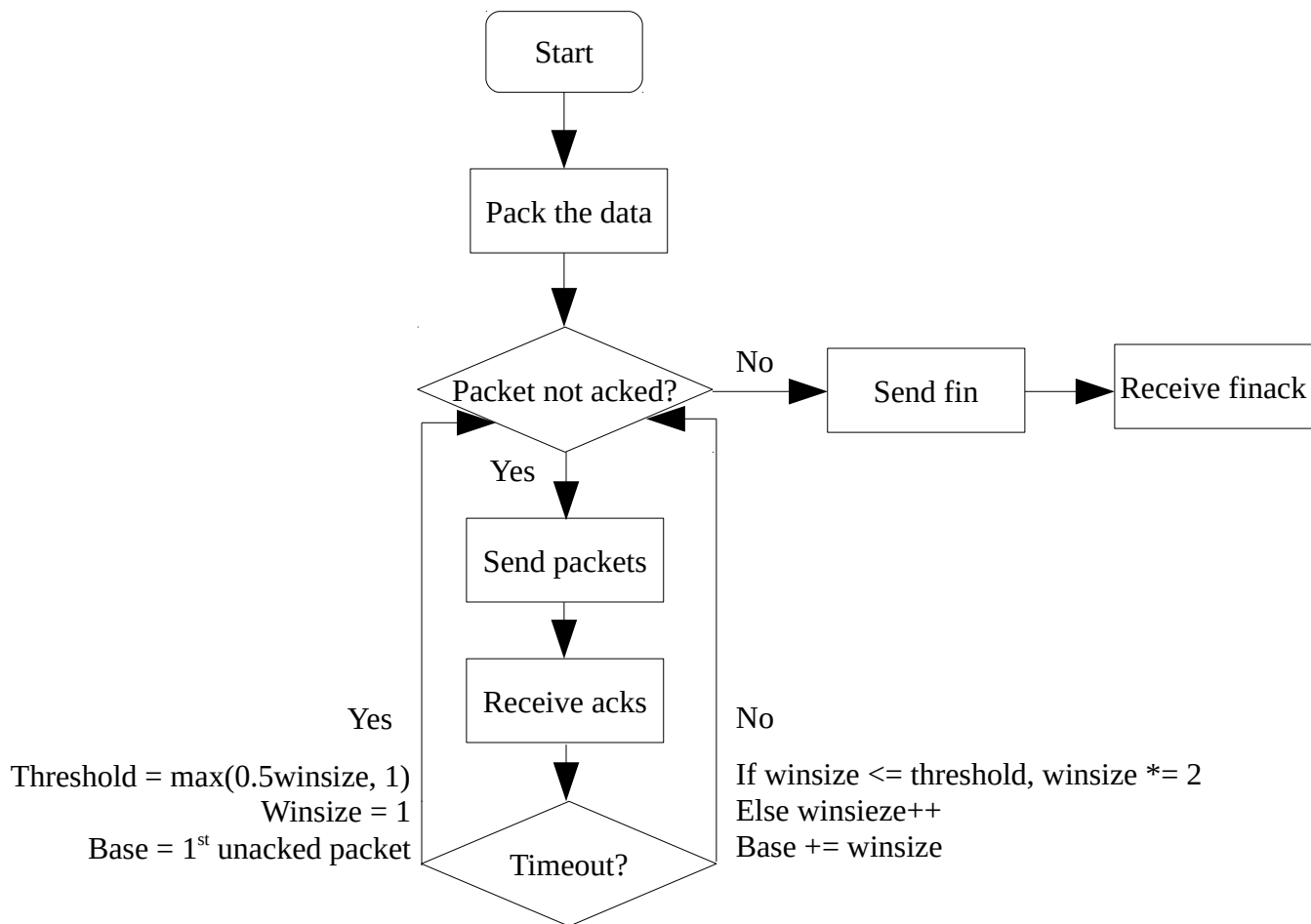
./sender <agent IP> <recv IP> <sender port> <agent port> <recv port> <file_path> <threshold>

./agent <sender IP> <recv IP> <sender port> <agent port> <recv port> <loss_rate>

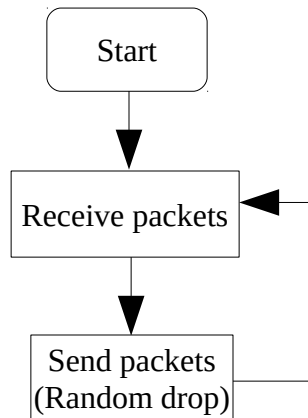
./receiver <sender IP> <agent IP> <sender port> <agent port> <recv port> <file_path> <buffer_size>

Program structures

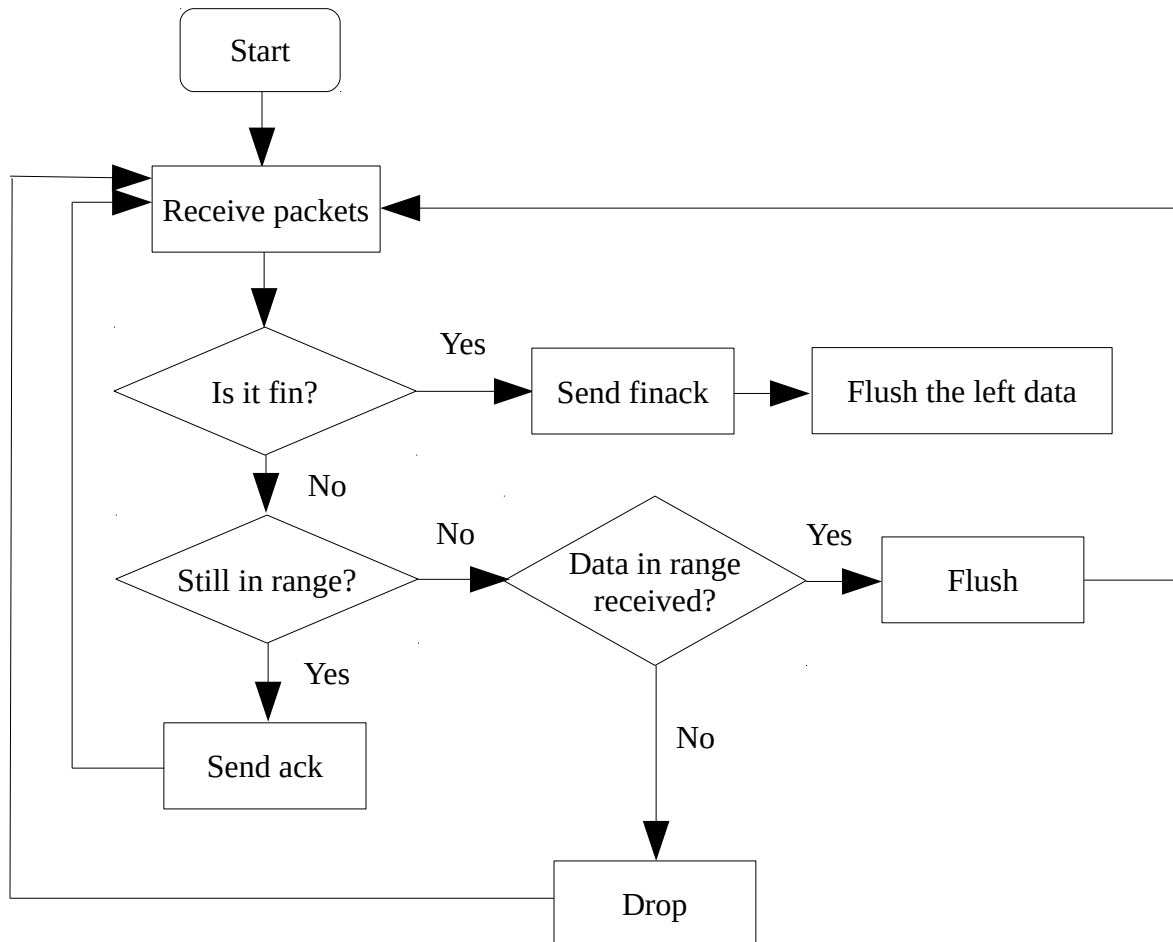
Sender: Packs and sends the data.



Agent: Manage the transfer.



Receiver: Receives the data and acks.



Difficulties and Solutions

As always, running programs on Linux is a tiring work.

File I/O and socket programming on C is what I'm not quite familiar with, so I spent most of the time looking for manuals.