Homework 2

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CSIE - Computer Networks

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1 Program

Environment

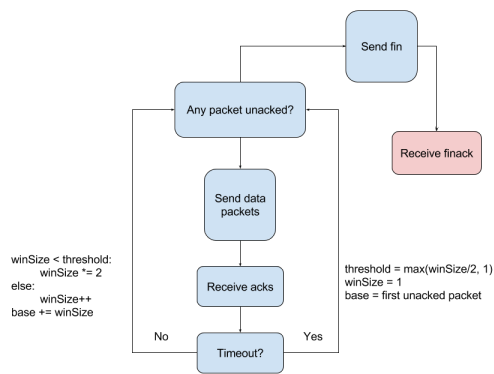CSIE workstation with `gcc` compiler and `-std=c99` flag.

Usage

- **Compile**

    - `make`: compile source codes to executable including `sender`, `receiver`, `agent`, `sender-MPTCP` and `agent-MPTCP`.

- **TCP**

    - `make runagent`: execute `agent` with default parameter setting.

    - `make runreceiver`: execute `receiver` with default parameter setting.

    - `make runsender`: execute `sender` with default parameter setting.

- **MPTCP**

    - `make runagent-MPTCP`: execute `agent-MPTCP` with default parameter setting.

    - `make runreceiver`

    - `make runsender-MPTCP`: execute `sender-MPTCP` with default parameter setting.
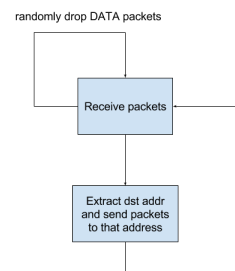
2 Difficulties and Solutions

- **C socket programming**: Since I use Python to do homework 1, I have to learn how to use C to do socket programming. Hence, I find many references about UDP socket programming in C, which is the most time-comsuming task in this homework.

- **Program structure**: Due to the broken structure on my first try, I recontruct the new counterpart to achieve the goals of homework.
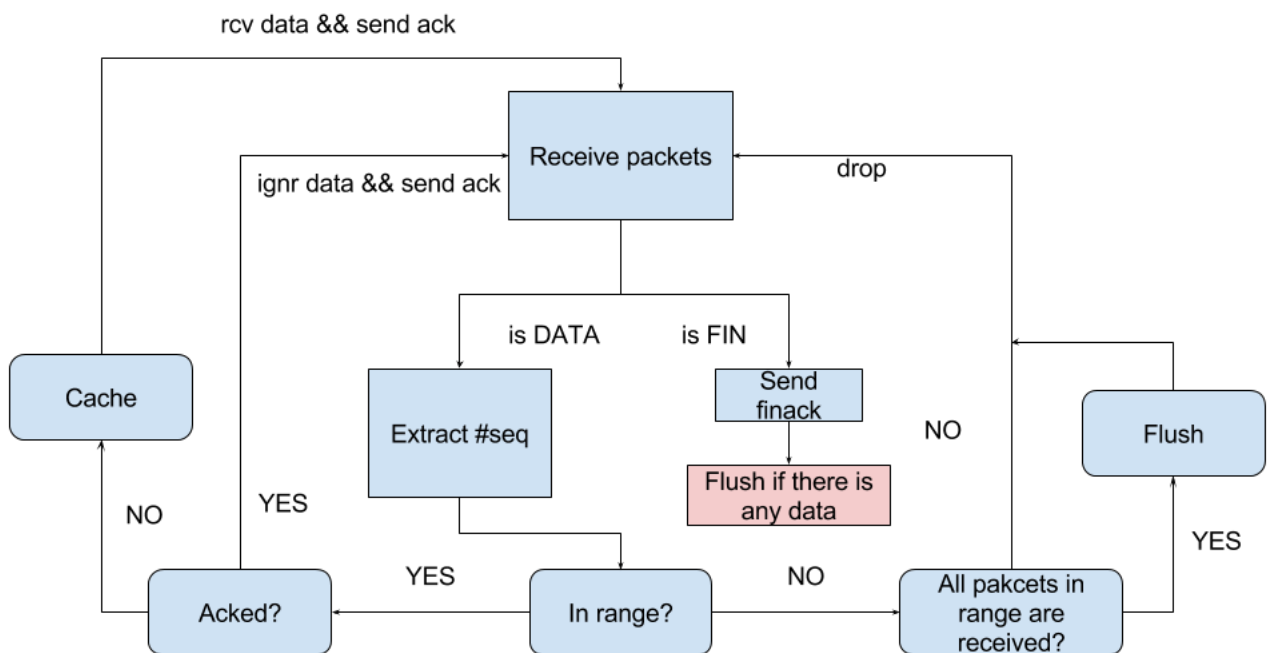
3 Flow Chart

(a) sender

(b) agent

(c) receiver

Figure 1: Flow chart