How to execute

Sender:

python3 sender.py [-h] [--src_ip SRC_IP] [--src_port SRC_PORT]

[--agent_ip AGENT_IP] [--agent_port AGENT_PORT]

[--dst_ip DST_IP] [--dst_port DST_PORT]

[--threshold THRESHOLD] [--timeout TIMEOUT]

file

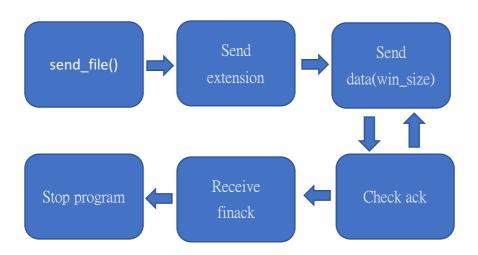
Receiver:

Agent:

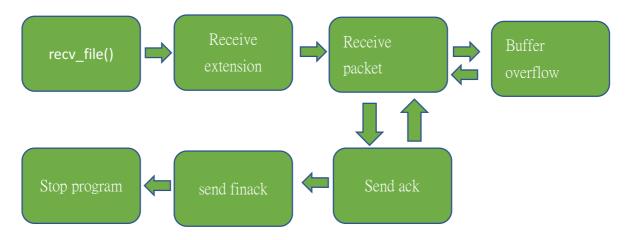
python3 agent.py [-h] [--ip IP] [--port PORT] [--loss LOSS]

Program Structure

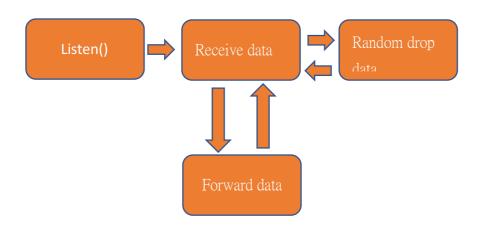
Sender:



Receiver:



Agent:



Difficulties and Solutions

Packet format:

直接把 packet 當作字串傳過去會讓 receiver parse packet 很困難,後來使用 pickle.dumps 跟 pickle.loads 直接將整個物件傳過去,省下 parsing 的麻煩。

Filename extension:

直接傳 data 的話沒有 extension 的資訊,後來將 extension 當作一個 packet 在傳 data 前先傳給 receiver 在寫 data 前知道正確的 extension · 。