***Reti di Calcolatori ed Ingegneria del Web***

Relazione sul progetto 1: Trasferimento file su UDP (GBN)

* Studenti: Emanuele Arilli (0266387), Luca Sugamosto (0252792)
* Docente: Prof. Francesco Lo Presti
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Sommario

[Specifica 3](#_Toc80025760)

[Architettura e scelte progettuali 4](#_Toc80025761)

[Architettura client-server 4](#_Toc80025762)

[Scelte progettuali 4](#_Toc80025763)

[Implementazione 5](#_Toc80025764)

[Variabili globali 5](#_Toc80025765)

[Struttura dei pacchetti 6](#_Toc80025766)

[Funzioni client 6](#_Toc80025767)

[Funzioni server 14](#_Toc80025768)

[Connessione 16](#_Toc80025769)

[Piattaforma software e hardware utilizzata 17](#_Toc80025770)

[Esempi di funzionamento 17](#_Toc80025771)

[Prestazioni 21](#_Toc80025772)

[Analisi prestazioni con variazioni su Prob. Perdita e Finestra N – Timeout statico = 5000 21](#_Toc80025773)

[Analisi prestazionale con Timeout statico e Adattivo ( Dinamico) 22](#_Toc80025774)

[Manuale per l'installazione, configurazione ed esecuzione del sistema 22](#_Toc80025775)

# Specifica

Lo scopo del progetto è quello di progettare e implementare in linguaggio C usando l’API del socket di Berkeley un’applicazione client-server per il trasferimento di file che impieghi il servizio di rete senza connessione (socket tipo SOCK\_DGRAM, ovvero UDP come protocollo di strato di trasporto).

Il software deve permettere:

• Connessione client-server senza autenticazione;

• La visualizzazione sul client dei file disponibili sul server (comando **list**);

• Il download di un file dal server (comando **get**);

• L’upload di un file sul server (comando **put**);

• Il trasferimento file in modo affidabile.

Lo scambio di messaggi avviene usando un servizio di comunicazione non affidabile. Al fine di garantire la corretta spedizione/ricezione dei messaggi e dei file sia i client che il server implementano a livello applicativo il protocollo Go-Back N.

Per simulare la perdita dei messaggi in rete (evento alquanto improbabile in una rete locale per non parlare di quando client e server sono eseguiti sullo stesso host), si assume che ogni messaggio sia scartato dal mittente con probabilità p.

La dimensione della finestra di spedizione N, la probabilità di perdita dei messaggi p, e la durata del timeout T, sono tre costanti configurabili ed uguali per tutti i processi. Oltre all’uso di un timeout fisso, deve essere possibile scegliere l’uso di un valore per il timeout adattativo calcolato dinamicamente in base alla evoluzione dei ritardi di rete osservati.

I client ed il server devono essere eseguiti nello spazio utente senza richiedere privilegi di root. Il server deve essere in ascolto su una porta di default (configurabile).

# Architettura e scelte progettuali

## Architettura client-server

Nelle architetture client-server vi è un host sempre attivo, chiamato server, che risponde alle richieste di servizio di molti host, detti client. In questo tipo di architettura i client non comunicano direttamente tra di loro ed inoltre i server a cui si referenziano sono caratterizzati da un indirizzo fisso noto.

Lo scopo del progetto è osservare come comunicano tra di loro processi in esecuzione su sistemi periferici diversi, che potrebbero avere anche sistemi operativi diversi. Per ciascuna coppia di processi comunicanti, ne etichettiamo uno come client e l’altro come server.

Nella maggior parte delle applicazioni, i processi comunicanti si scambiano tra di loro messaggi che passano attraverso la rete. Un processo invia messaggi nella rete e riceve messaggi dalla rete attraverso un’interfaccia software detta socket. Tale interfaccia si trova tra il livello applicativo e il livello di trasporto all’interno di un host.

Nella rete, gli host vengono identificati attraverso i loro indirizzi IP. Oltre a conoscere l’indirizzo dell’host a cui è destinato il messaggio, il mittente deve anche identificare il processo destinatario, più specificatamente la socket che deve ricevere il dato; questo ruolo viene svolto dal numero di porta di destinazione.

## Scelte progettuali

Per implementare il trasferimento di file tramite il protocollo UDP in maniera affidabile e concorrenziale, abbiamo creato un server padre sempre attivo, che gestisce le richieste di diversi client e che vengono poi soddisfatte dai processi server figli.

Ogni client comunica al server padre la sua esistenza, e quest’ultimo gli fornisce un numero di porta (da 1025 a 65535) che permette di instaurare una connessione tra processo client e processo server figlio per ogni richiesta invocata.

Per comunicare il servizio richiesto (**Exit**, **List**, **Get** e **Put**) il client inserisce nel buffer il comando corrispondente e lo invia al server. Nel caso di richiesta di trasferimento di un file, viene scambiato il suo nome, la sua lunghezza e il numero di pacchetti utili affinché il file sia completamente trasferito.

Per quanto riguarda l’affidabilità del trasferimento del file, oltre ad inviare il pacchetto contenente il messaggio, viene inviato anche l’ultimo byte associato a quel messaggio. Il destinatario una volta ricevuto correttamente il pacchetto, risponde inviando un ack contenente il valore del byte che si aspetta di ricevere successivamente.

Nel caso di trasmissione del pacchetto fallita, secondo la probabilità p, scatta la ritrasmissione dello stesso al verificarsi del primo evento tra, timeout scaduto o tre ack duplicati.

La probabilità di perdita è implementata nel lato ricevente, quindi per ogni pacchetto ricevuto in ordine viene estratto un numero casuale che indica se il pacchetto è perso o no. Nel caso il valore estratto fosse minore di quello della variabile “PROB\_PERDITA” allora il pacchetto viene assunto perso e si invia un ack associato all’ultimo pacchetto ricevuto correttamente in ordine, altrimenti il pacchetto risulta arrivato con successo e si procede all’invio del relativo ack. Abbiamo scelto questo approccio pensando di tenere il mittente ignaro delle perdite, esso infatti invia tutti i pacchetti che ha a disposizione pensando che essi arrivino al destinatario. Dall’altro lato però, con una certa probabilità scartiamo volontariamente dei pacchetti, fingendo di averli persi o ricevuti danneggiati.

La scelta del timeout, tra statico e adattivo, può essere effettuata nel caso venisse richiesto come servizio quello di trasferimento del file. Tale preferenza viene richiesta immediatamente dopo aver espresso il comando desiderato e prima di richiedere all’utente il nome del file da voler trasferire.

# Implementazione

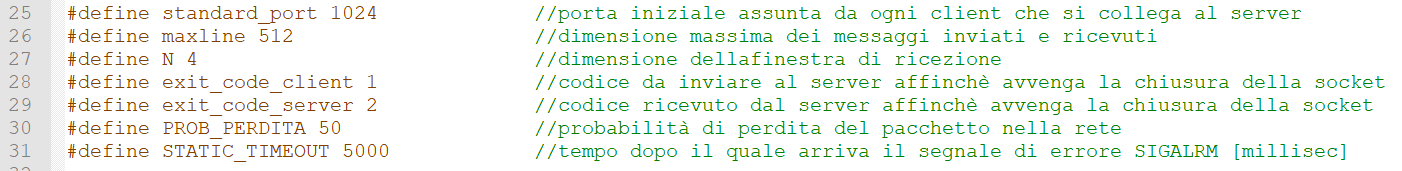
Il progetto si compone di una cartella “Progetto IIW” in cui sono presenti:

* server.c - file C contenente il codice del server;
* client.c - file C contenente il codice del client;
* client UDP - cartella che contiene i file presenti nel client;
* server UDP - cartella che contiene i file presenti nel server.

## Variabili globali

1. **Text

   Description automatically generatedLATO CLIENT**
2. **Text

   Description automatically generated with medium confidenceLATO SERVER**
3. **DEFINE globali**

## Struttura dei pacchetti

Abbiamo utilizzato questa struttura chiamata “message” per leggere/scrivere il contenuto dei file e trasferirli tra il client e il server. L’array “message\_buffer”, di dimensione fissa “maxline”, contiene i dati veri e propri che vengono trasferiti dal client al server, e/o viceversa, tramite le funzioni “sendto” e “recvfrom”.

## Funzioni client

* int main (int argc, char \*argv [])

Funzione principale del processo client, essa deve ricevere in input l’indirizzo IP del server a cui connettersi, che verrà usato per la creazione della socket tramite la funzione “create\_connection” alla porta standard (di valore 1024).

Una volta stabilita la connessione tra processo client e processo server figlio (utilizzando un altro numero di porta specifico), si entra nel while (1) e vengono stampate sul terminale le istruzioni per l’utilizzo del programma descrivendo i vari comandi supportati.

Finché non viene selezionato il comando desiderato, il client rimane in attesa di ricezione di quest’ultimo, che verrà poi gestito dalle specifiche funzioni.

Nel caso di comando **put** e/o **get**, viene anche chiesto all’utente, di specificare il tipo di timeout da utilizzare per quella sessione e il nome del file da trasmettere.

* void func\_list (char \*buffer)

Funzione viene utilizzata per soddisfare la richiesta della **list**.

Inizialmente invia la richiesta al server con il comando **list** all’interno del buffer.

Analizza la risposta, controllando eventuali errori o chiusure e nel caso non ci fossero, stampa a schermo la lista dei file presenti nel server, contenuti nei buffer ricevuti da quest’ultimo.

* void func\_get (char \*buffer)

Utilizzata per il comando **get**, permette di trasferire un file richiesto dal client se e solo se è presente nella cartella “server UDP”.

Anche in questo caso viene inviato tramite un buffer il comando **get** e successivamente la tipologia di timeout da usare, scelto sempre dall’utente.

Dopo ciò si chiede all’utente di inserire il nome del file da scaricare dal server, e una volta inviato tale funzione rimane in attesa di una risposta che sarà gestita dalla funzione “ricezione\_GBN”.

* void func\_put (char \*buffer)

Utilizzata per il comando **put**, permette di inviare un file presente nella cartella “client UDP” al server.

Come nelle funzioni precedenti, invio il comando richiesto **put** tramite buffer al server; successivamente si inserisci il nome del file da voler inviare e si controlla nella cartella “client UDP” se effettivamente il file richiesto esiste nel lato client.

Text

Description automatically generatedSe la presenza è confermata allora viene inviato al processo server il nome del file, affinché possa crearlo nella propria cartella, mentre nel lato client si procede con l’apertura del file per la sola lettura (RDONLY) e si calcola la lunghezza del file e il numero di messaggi, informazioni che poi saranno inviate al processo server. Fatto ciò, vengono inizializzate le strutture dei pacchetti e si passa il controllo alla funzione “invio\_GBN”.

* void ricezione\_GBN (char \*pathname)

A picture containing text

Description automatically generatedFunzione utilizzata da “func\_get” per scaricare e salvare nella cartella “client UDP” il file ricevuto dal server, e per inviare al server informazioni sullo stato degli ack.

La funzione attende di ricevere la lunghezza del file (se quest’ultimo è effettivamente presente nel server) o altrimenti un buffer vuoto.

In caso positivo, viene ricevuto in seguito il numero di pacchetti, si crea il file con il pathname ricevuto e si inizializzano le strutture dei pacchetti, inizialmente vuote.

Nel ciclo while (i < num\_message) si attende la ricezione di tutti i pacchetti di cui si compone il file richiesto e del valore dell’ultimo byte di ognuno di essi.

Salvo il valore dell’ultimo byte ricevuto e lo confronto con il valore atteso, per vedere se è veramente il pacchetto che aspettavo, o è sfalsato e fuori ordine.

Text

Description automatically generatedNel caso in cui fosse quello corretto, tramite la probabilità p (estrazione del numero casuale tramite “rand”), si simula la perdita o meno del pacchetto.

Se il pacchetto viene scartato, rinvio l’ack del pacchetto precedente, altrimenti ricevo correttamente i dati e mando l’ack aggiornato

La situazione in cui il pacchetto è fuori ordine, viene gestita invece, come da protocollo GO-BACK-N, con lo scartare i pacchetti, e rinviare l’ultimo ack ricevuto in ordine.

È presente un controllo sull’invio dell’ack, infatti questo viene inviato ripetuto per massimo tre volte poiché successivamente non vengono più invitati per via della ritrasmissione rapida. Grazie a quest’ultima il server viene a conoscenza della perdita dei pacchetti ed esegue la ritrasmissione.

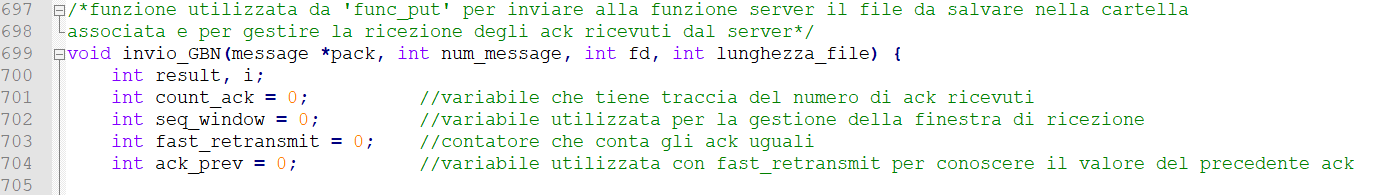
Il ciclo while viene interrotto con un “break” nel caso di ricezione corretta dell’ultimo pacchetto.

Text, application

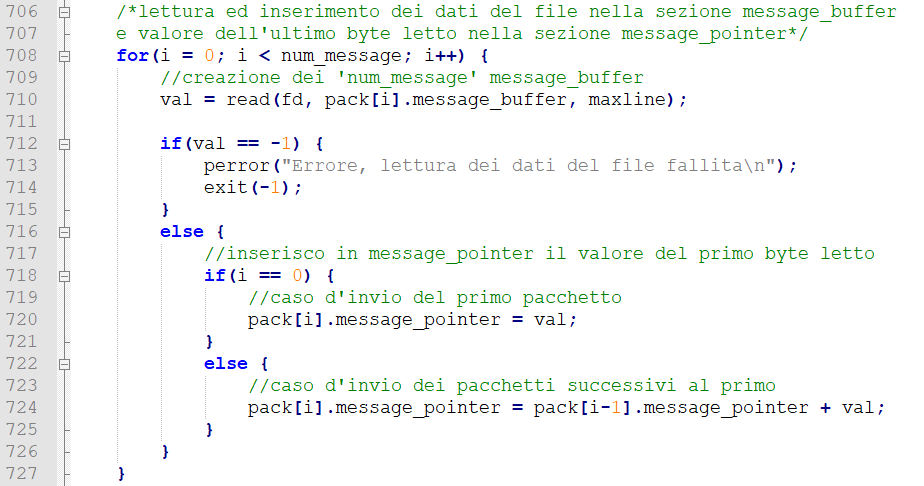
Description automatically generated

* void invio\_GBN (message \*pack, int num\_message, int fd, int lunghezza\_file)

Funzione utilizzata da “func\_put” per inviare al server il file da salvare nella cartella “server UDP” e per gestire la ricezione degli ack in arrivo dal server.

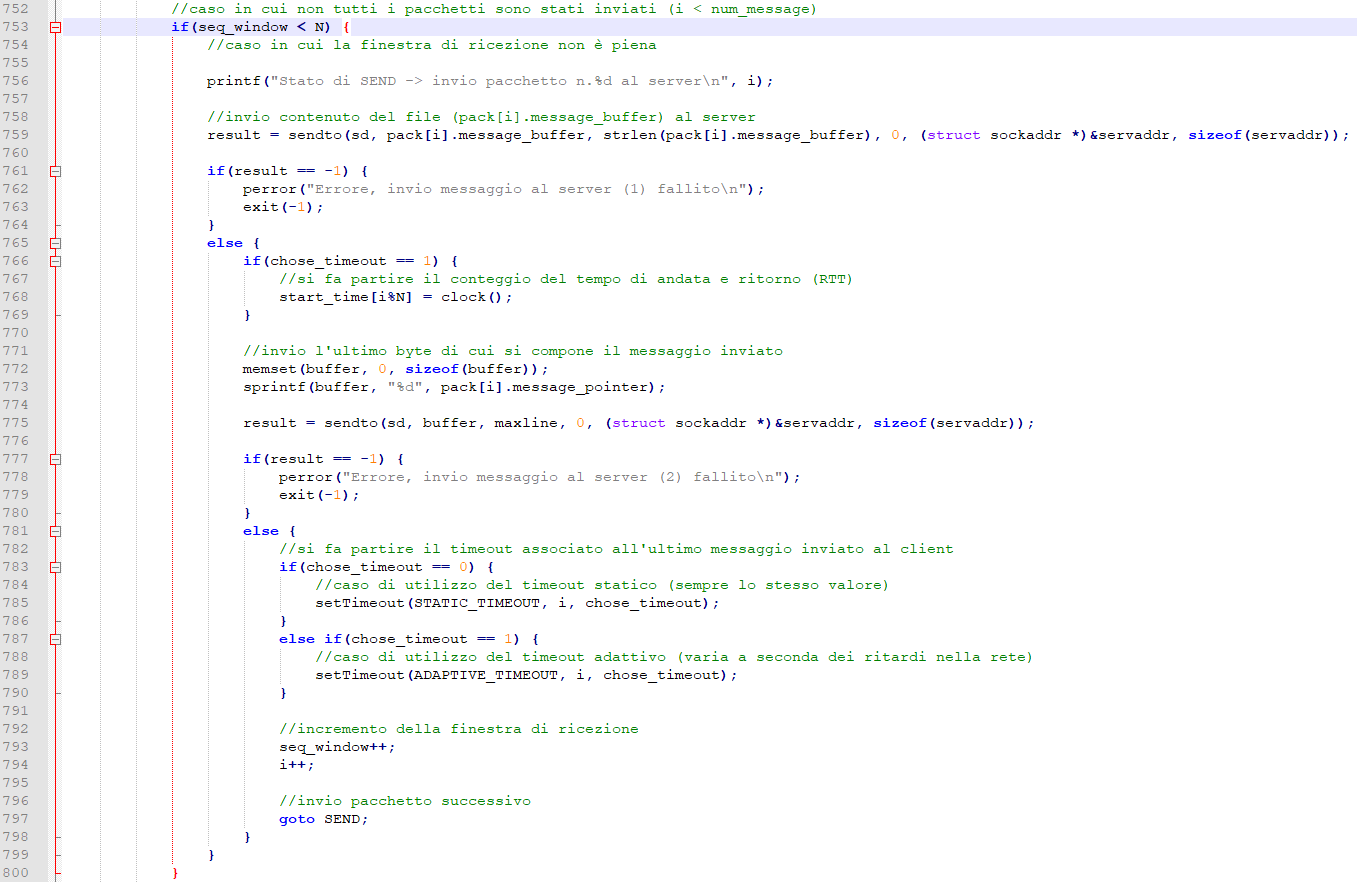


Come primo passo vengono letti i dati di cui si compone il file e vengono inseriti nei buffer (message\_buffer[maxline]) che fanno parte della struttura per la gestione dei pacchetti.

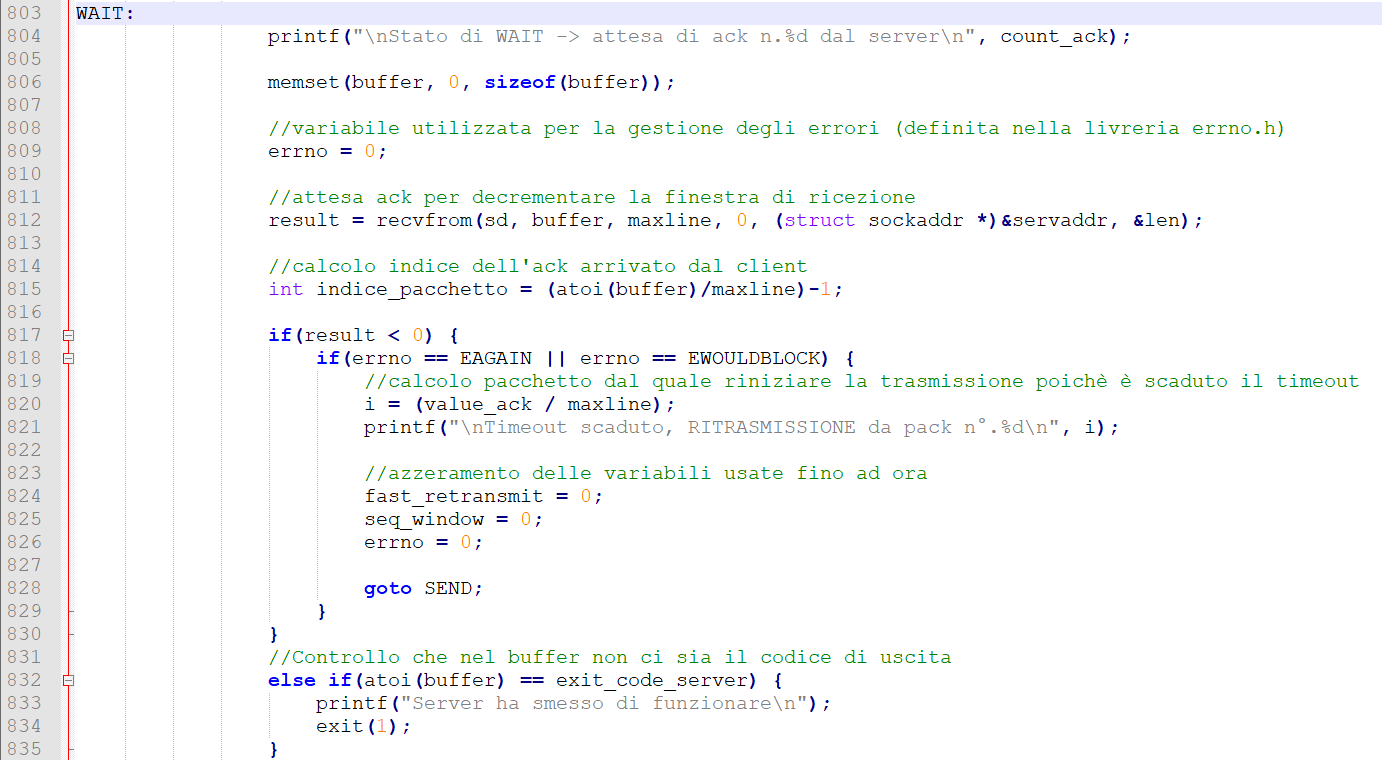
Nell’altra variabile (message\_pointer), che fa sempre parte della struttura, viene inserito il valore dell’ultimo byte letto associato all’immediato buffer riempito.

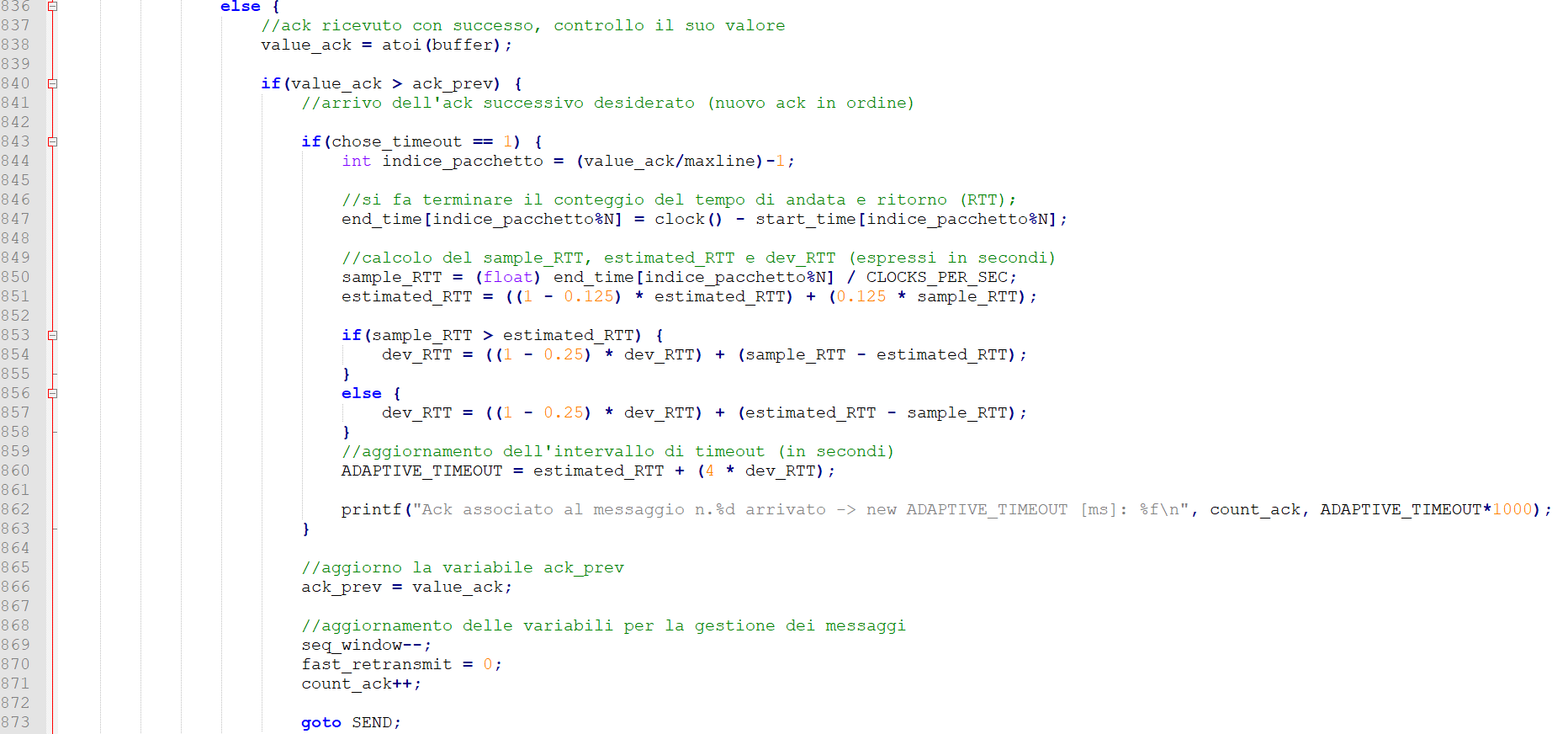
Una volta riempiti i campi della struttura per la gestione dei pacchetti si entra nel while (1) e qui vi si rimane finché tutti i pacchetti non avranno ricevuto ack e quindi saranno arrivati in ordine al server.

All’interno del ciclo vi sono poi una serie di condizioni che permettono di definire a che punto si trovi il trasferimento, infatti nel caso in cui non tutti i pacchetti siano stati inviati si va ad inviare il buffer contenente il messaggio i-esimo e in seguito per ogni pacchetto inviato si fa partire il timer per tener conto della situazione di TIMEOUT (che causa una ritrasmissione dei pacchetti).

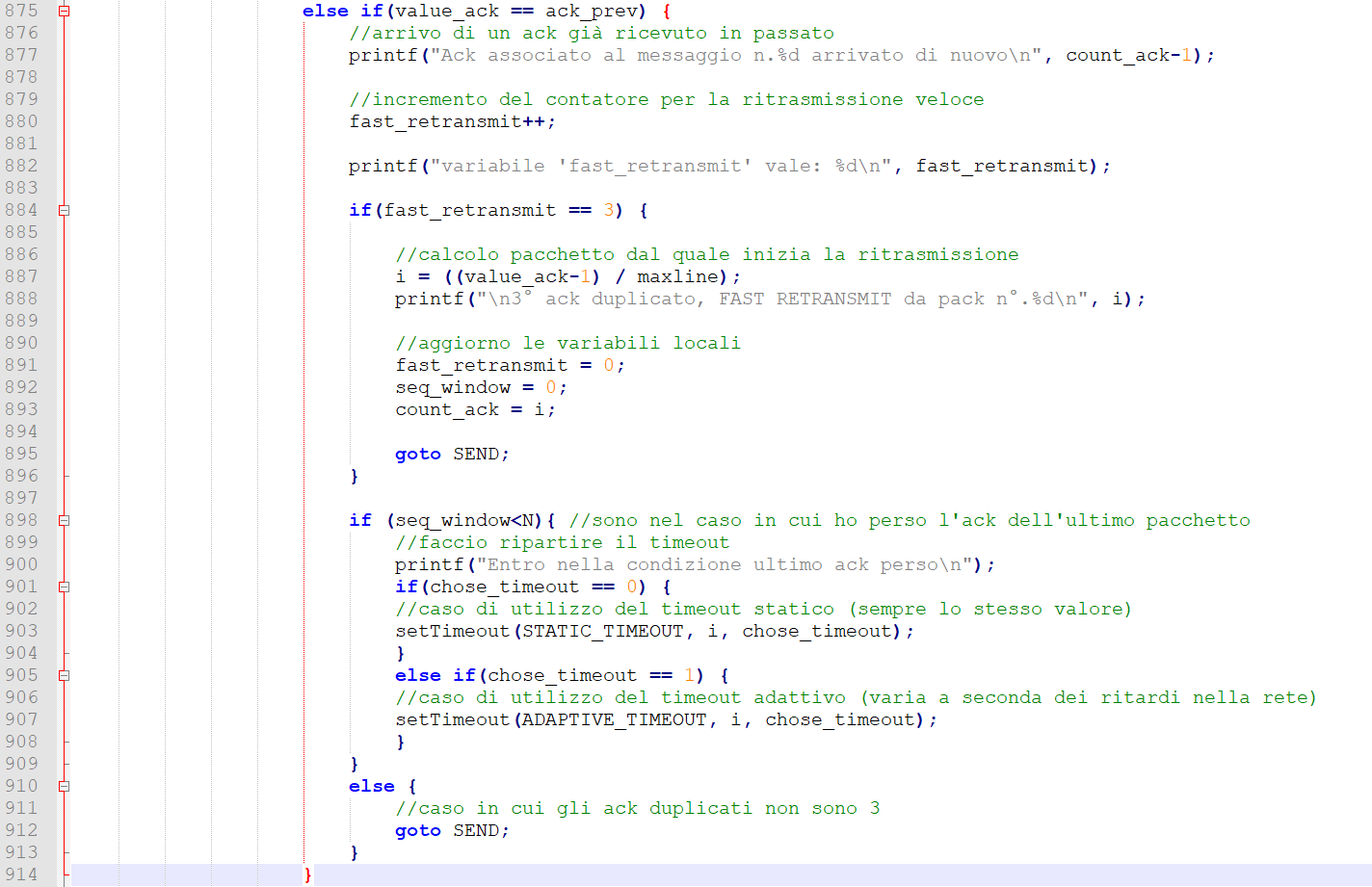
Oltre al buffer si invia al server anche il valore di message\_pointer per la gestione degli ack e il controllo dell’ordine di arrivo dei pacchetti nel server.

Nel caso in cui la finestra di ricezione fosse piena (seq\_window = N) o tutti i pacchetti sono stati inviati ma si è ancora in attesa di ack, allora si passa allo stato di WAIT, dove si attende di ricevere i buffer contenenti il valore di ack, che va poi controllato con la variabile locale per verificare l’ordine di ricezione del server.

Nella prima parte della WAIT si controlla che la ricezione del buffer contenente l’ack sia andata a buon fine, altrimenti ho un eventuale termine del TIMEOUT che viene gestito con una ritrasmissione tornando in stato di SEND, rinviando dal primo pacchetto in sospeso.

Nel caso in cui invece, la funzione “recvfrom” va a buon fine e arriva l’ack desiderato, si aggiornano le variabili per la gestione dei messaggi, dell’ack atteso, e nel caso di timeout variabile, viene calcolato il suo nuovo valore.

Se ci viene inviato un ack già ricevuto, aggiorniamo la variabile “fast\_retransmit”, che nel caso in cui assumesse valore 3, allora entrerebbe in gioco la ritrasmissione rapida, che ci riporterebbe nello stato SEND, per l’invio del primo pacchetto ancora non riscontrato in ordine.

Viene aggiunto anche un ulteriore controllo, nel caso in cui viene perso l’ack dell’ultimo pacchetto, per evitare un blocco in stato di WAIT.

* int create\_connection (char \*buffer, int port\_number)

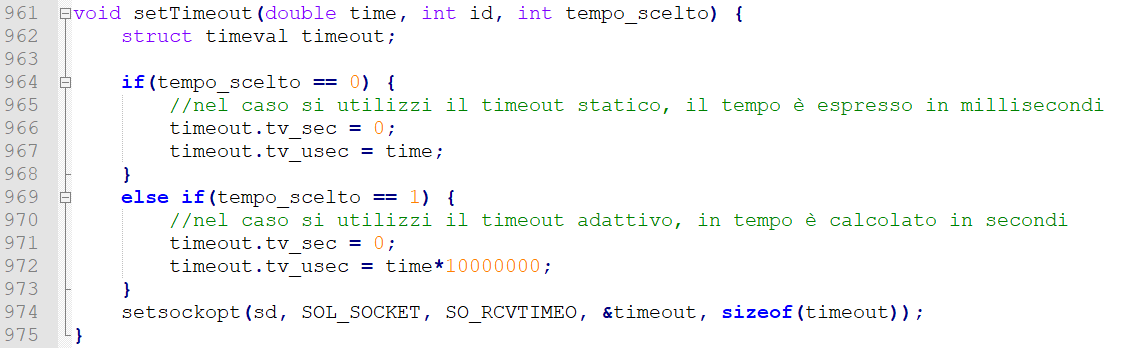
Graphical user interface, text, application

Description automatically generatedFunzione che consente di creare una socket UDP per il processo client appena inizializzato. In essa viene passato come parametro l’indirizzo IP di loopback (127.0.0/32) con il quale il client specifica l’interfaccia del server al quale connettersi e il numero di porta.

* void setTimeout (double time, int id, int tempo\_scelto)

Funzione per la gestione del timer che viene associato alla socket ed è fatto partire per ogni messaggio inviato. Il timer viene poi dismesso quando si riceve l’ack associato, oppure al termine del tempo, quando quindi si verifica l’evento di timeout e di conseguenza la futura ritrasmissione.

Le tipologie di timeout usate sono due e in base al valore del parametro “tempo\_scelto” viene usato un timeout statico o adattivo.

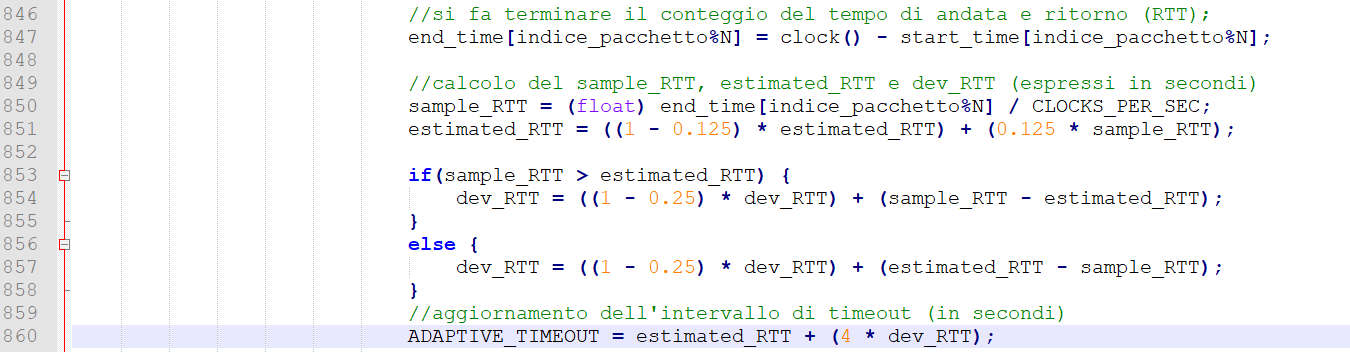


Il calcolo del tempo di timeout adattivo avviene nella funzione “invio\_GBN” come segue:

1. Ogni volta che si riceve un ACK non duplicato si misura un SampleRTT, ovvero il tempo che intercorre tra l’invio del pacchetto (no ritrasmissione) e la ricezione del suo ACK;
2. Tramite i valori di SampleRTT viene calcolata una media ponderata definita come EstimatedRTT. Ogni volta che si calcola un nuovo SampleRTT viene aggiornato il valore dell’EstimatedRTT;
3. Per tenere conto di quanto velocemente variano i valori del RTT, viene inoltre calcolata la

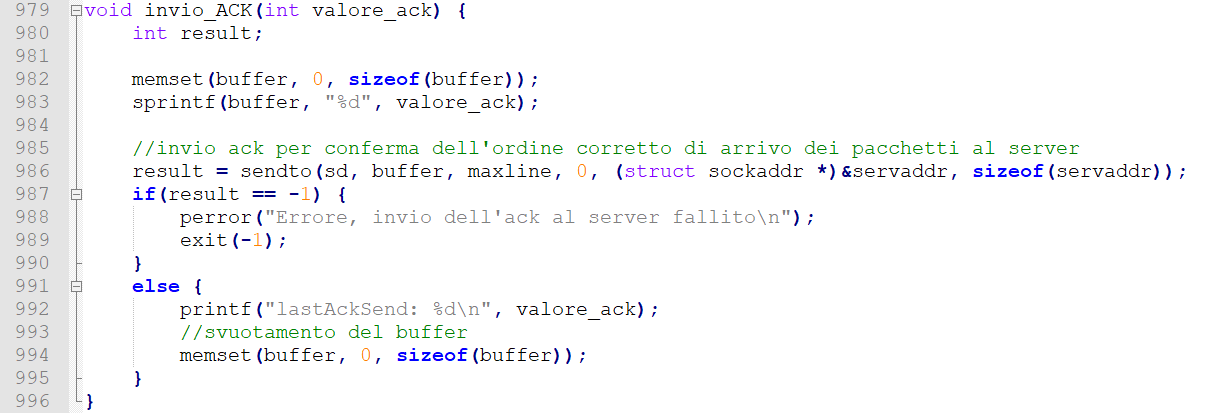
variabilità DevRTT, che stima quanto il valore SampleRTT si discosta da EstimatedRTT;

1. Il nuovo intervallo di tempo viene calcolato tramite DevRTT ed estimatedRTT.



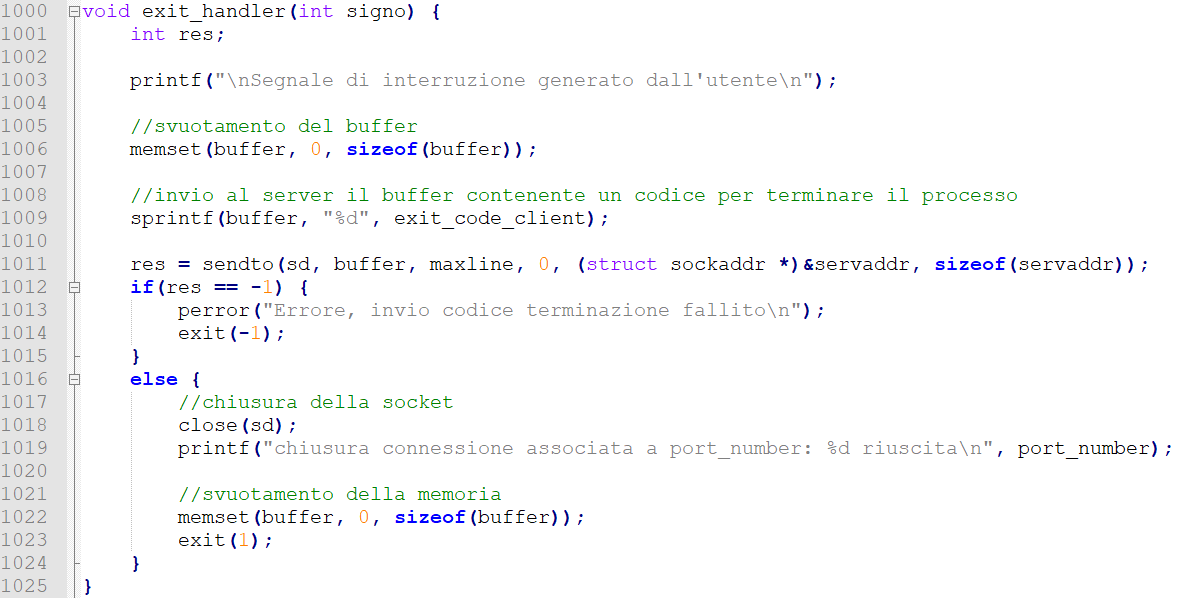
* void invio\_ACK (int valore\_ack)

Funzione per la creazione e invio di buffer contenenti il valore di ack da trasmettere all’altro processo comunicante per informarlo sull’ordine con cui arrivano i pacchetti.



* void exit\_handler (int signo)

Funzione utilizzata per la gestione del segnale SIGINT (che si viene a presentare quando l’utente preme la combinazione di tasti CTRL+C poiché vuole richiedere l’interruzione forzata dell’istanza) e invio dello stesso al server, affinché possa chiudersi da entrambi i lati la connessione socket creata.



## Funzioni server

La struttura del codice e delle funzioni tra server e client è molto simile tra loro, riportiamo quindi le differenze tra i due.

* Int main (int argc, char \*argv [])

Nella funzione principale, all’interno del while (1), una volta instaurata la connessione tramite standard\_port, viene creato un processo figlio tramite “fork” che instaura la connessione con il client con una porta dedicata “port\_number”.

Successivamente il processo server figlio entra nel secondo while (1), in cui resta in attesa del comando da parte del client, mentre il processo server padre aggiorna la variabile “port\_number” da assegnare al successivo client che ne fa richiesta.

Il comando **list** viene gestito subito dalla specifica funzione “func\_list” mentre **exit** viene gestito nel main.

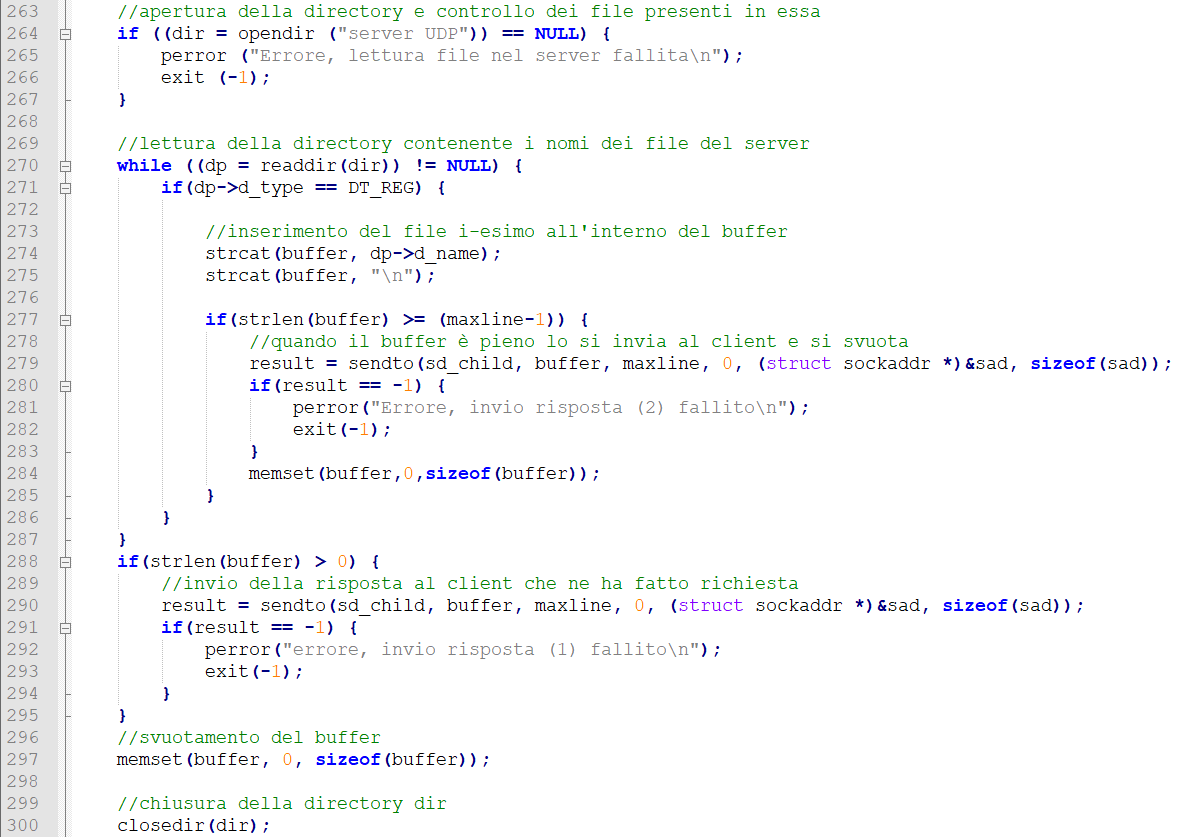
Con il comando **put** invece, la funzione main prima di passare il controllo alla funzione dedicata “func\_put”, riceve anche il nome del file da scrivere sul server.

Riguardo la **get**, la funzione main riceve il valore che indica la tipologia di timeout da utilizzare, il nome del file da inviare al client e poi declina il lavoro alla funzione dedicata “func\_get”.

* Void func\_list ()

Tale funzione ha il compito di fornire la lista dei file disponibili nella cartella “server UDP” al client che ne fa richiesta.

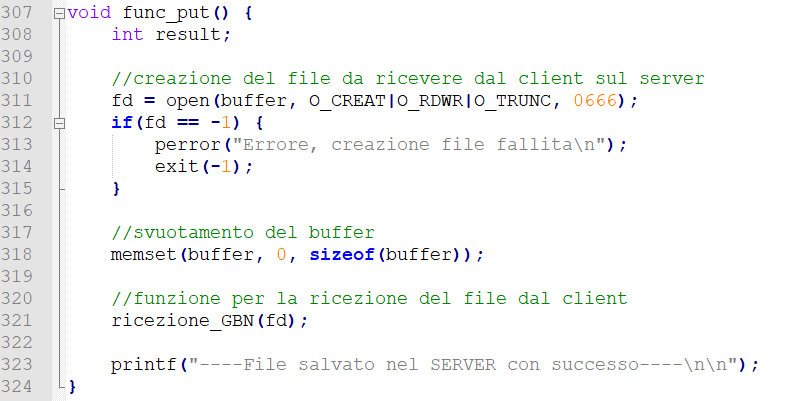
Questo avviene andando ad aprire la cartella, scorrere i vari file in essa presenti e inserirne i nomi uno ad uno all’interno del/dei buffer, che verrà puntualmente inviato al client tramite “sendto”.



* Void func\_put ()

Funzione utilizzata per la richiesta del comando **put**.

Crea il file da ricevere dal client e lo apre in modalità lettura/scrittura (RDWR) e declina il compito di ricezione dei dati alla funzione “ricezione\_GBN” passandogli il descrittore del file appena creato.



* Void func\_get ()

Funzione utilizzata per la richiesta del comando **get**.

Inizialmente va a scorrere i file presenti nella cartella “server UDP” per trovare quello richiesto.

In caso esista apre il file, calcola la sua lunghezza e il numero di pacchetti, e invia tali informazioni al client.

Successivamente alloca le strutture dei pacchetti e passa il comando alla funzione “invio\_GBN”. Questa funzione segue lo stesso schema della “func\_put” del client.

* Void ricezione\_GBN (int file\_descriptor)

A differenza di quella presente nel client, qui viene passato direttamente il file descriptor, e non il pathname, questo perché il file viene aperto precedentemente nella funzione “func\_put”. All’interno del ciclo viene invece svolta la stessa procedura già descritta nel lato client.

* void invio\_GBN (message \*pack, int num\_message, int fd, int lunghezza\_file)

Anche questa funzione è strutturalmente identica a quella descritta lato client.

* int create\_connection (int port)

Strutturalmente simile a quella lato client.

La differenza è che nel lato server viene passato solo il numero di porta, dato che accetta le richieste da parte di tutti i client che utilizzano una qualsiasi delle interfacce della famiglia degli indirizzi 127.0.0/32 (indicato nel codice con il parametro INADDR\_ANY).

Inoltre, nel lato server, per l’assegnazione dell’indirizzo IP al socket, va utilizzata la funzione “bind”.

**Text

Description automatically generated**

* void setTimeout (double time, int id, int tempo\_scelto)

Identica a quella del lato client, vedere sopra.

* void invio\_ACK (int valore\_ack)

Identica a quella del lato client, vedere sopra.

* void exit\_handler (int signo)

La differenza rispetto a quella del processo client è che una volta gestito il segnale di uscita, chiudiamo due socket, quella principale (porta 1024) e quella del child (porta tra 1025 e 65535).

## Connessione

La connessione tra client e server avviene nel seguente modo:

* **LATO CLIENT**

1. Crea la socket UDP con i parametri dati dall’indirizzo IP (loopback 127.0.0/32) che viene passato come argomento dall’utente e la porta standard (1024), attraverso la funzione “create\_connection”.
2. Comunico al server l’esistenza del nuovo client attraverso la socket appena creata, inviando un buffer vuoto.
3. Attendo la ricezione del nuovo numero di porta specifico (con valore tra 1025 e 65535) con la quale creare una nuova socket e una nuova connessione tra il processo client e il processo server figlio. Quest’ultima porta che verrà salvata e usata per aprire una connessione ad ogni richiesta dello stesso client verso lo stesso server.
4. Chiusura della socket con valore della porta 1024 (standard\_port), utilizzata soltanto per comunicare con il server padre la sua esistenza e ottenere il nuovo numero di porta.
5. Entro nel ciclo while (1) e ad ogni istanza del ciclo, apro la connessione con il numero di porta ricevuto dal server, socket che verrà gestita da uno specifico server figlio.

* **LATO SERVER**

1. Creazione della socket per il processo server, tramite la funzione “create\_connection”, passando come parametro la standard port (1024).
2. Entro nel primo while (1) e aspetto la ricezione di un messaggio “vuoto” da parte del client che desidera connettersi e far sapere di voler comunicare.
3. Assegno e invio al client il nuovo numero di porta (iterativo da 1025 a 65535).
4. Creo il processo figlio con una fork (), chiudo la socket su standard port (1024) ed eseguo una connessione processo client – processo server figlio, assegnando alla variabile socket\_child la socket creata con il nuovo numero di porta scelto.
5. Entro nel secondo while (1), eseguito dal processo figlio, che gestisce le richieste del client. Ad ogni richiesta viene aperta e chiusa la connessione con esso.
6. Il server padre aggiorna la variabile port\_number da assegnare al successivo client che ne farà richiesta, tornando in attesa di un messaggio “vuoto” nel while (1).

# Piattaforma software e hardware utilizzata

Per lo sviluppo ed il testing del programma sono state utilizzate le seguenti piattaforme:

PC 1: OpenSuse Leap 15.0 (virtualizzato Oracle Vm) / Ryzen 5 2500u / 8Gb ram / 256 Gb ssd NVME

PC 2: Ubuntu 18.04 (nativo) / Intel Pentium CPU P6200 2,13 GHz x 2/ 4Gb ram / 500 Gb hdd

# Esempi di funzionamento

Inizialmente possiamo aprire un’istanza del server, avviandolo da terminale.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SacRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA4OjEzIDE4OjU3OjU4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TUMRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA4OjEzIDE4OjU3OjMxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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xp41baZFB9CwpTKisFLqGPQZ5oAdtFG0U3zUVgrOoY9BnmtPwn4X1fx54s0vwz4esv7U1/UpDDaWAniiMrhS33pDGowEJySAfSgHKMVeRn0VFDeRXEcbowIkwRk4JB5qWgAopk7CGNnPRQWP4VpeINDk8NatDp8lyt20ulaTqnmrGYgBe6fb3ojwWbPl/aPL3Z+bbuwv3aXMr2J5kpKD3ZQ20u2loplhtHpRgelFLtNACYHpRgelLtNG00AJRS7TRtNACYHpRgelLtNG2gBMD0owPSl20baAEwPSil20baAEop22jbQA2inbaNtADaKdto20ANop22jbQA2in0UAN2mjbTqKAE20tFFABRS7aXaKAG0vNOooAbtpdopaKACiiigAooooAKKKKACiiigdgooooGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB7V8I/7W/wCGVf2kRp/9ohPL8M/Z/svm7N/9qP53lY74xu2++7mvQPgZovha48LfspeH7rwP4T1W08dXfiS21+91DQbaa/vIormaOAC5ZDLEYw2QyOGBVADtXB+dtF+KXjzwrpcWmaF4+8WaHpcbMYdP0rXru3t4WY+YwWKOUINxZjwOpJOCaxdP8Ra5pceiLp+v6xZf2G0x0Y2uoXEf9mecSZGtiJMQlidzFcBuvXiueUHJvszyZYWdRy1tq2j3r9m3w7o3xH+G/hrwdo2gaNpnxGvpNWuEvvG3gv8Atax8UqE+RYNRIL2Qt1Rg2wBd5DZySp0vhnY+B/B/wf8AgxqV94BuvGKeLmvptZ+weArbX7jVJFuZYGsYrqW8hlsZIoUXYII/vYkG/wCZa+fNJ8deLtD8OzaBpvjHxJpvh6ZZUk0W11m7isnV8+YHhWUKQ2TuHO7J9aPDPjrxX4Fs5rPwv4v8R+F7K4k82e10PVriyhd9oXe8cTAM21QudpPAqXTl99vwM5YSpK9pWV7nqnhu40jwT+yHq/iTSPCvh3WNcuPiX/YlprHirw9a6jeW1gNOSYRlZkdQ37sKyncq75CuDtcY/hO+0/xJ+z/+0BqF/oXhpLrR/wCx9R025s9Bs4riwe61dBMsM4i81Yyh2rGZCFQ4AUEqPMo9SvY9FOjrfXqaN9r+3nSxdOLU3Wzb54h3bPM2fu9+3OPl3ba3dF+Knj/wzp8WnaJ8QfGGhaVb7zFp2la9dWsEWSztsjSXaBkkkKOWZsYqpU3rLvsayw8kvd+Ju/3Htn7Pnh3QviN4D0HwnoOg6LpfxC1CfVriK+8aeCf7W0/xSqpiNINRIL2Qt0jYMUwu8hs5JB5/wvGPA/7O/wAJvE/hTwBoHj3XPFms6nFr15rXhpdeeGa2lSO009QQTAJYWaTCYkfqDhTXldn8QvGVhodzodp418TW+hXYlW502HWrtbW480kys8KyhW8zc27ru3Hd1qv4V8ZeKPAcFzb+FfFeveFobkq1zHoep3NkszBSBvEbhWIXP3stz1o9nKTb7kfVal3fvc7j4cx6ZrX7Nvx0F9pWi3F14eg0O407UJNIsxfWkk+qpHNtuvLEwBQBNjyEKCV6EivMkZZMMjB0IyGByDXQ6H8TPH3hHSbbStA+IPi7w/o9uXFvpmma9dWtvGCS7bI0l2gkliQo5LM1YMkkk8zyyySXErku8szb3kY/eZ2/iaqjFps6qNOcXPm73PddDtR4D+Avww8ReF/h/wCH/Hev+Kde1S31241nwyuvNDNbTJFaacoIJgEkJaTCYkfGQ2Aa7L4E+B7GTS/2ddCX4XaF4m0nx9cayvinUtS0dbm7Xy7iWEpHcsS9p5EKLIPLZDuyxyxbPzX4Z8aeKvBa3cXhjxb4g8LpeMr3SaHqlzZLO4BALiNwrHGfvZbnrTdD8VeI/Deg6homjeKNd0bQ9Q3/AGvSdP1WeCzuS6hZPMijYJJlQEO4HKgZqZU27/L5nPLCzkmk7a7n2h8GfC/g1fh74RtpPAPgvXAul+D5/wC1NR8L2k11ctf+JLiwuZJXkjLN5lsqgBySpG5TkZrI+FHwt8Iab8RvA/gDWtD0HU9L8Wa54ktbTTLfwLDeXclhbXdzbs9zrMtwktu8flOyfZlZo1RC3LDPyNY+MPE2mwR29p4p16zto47aGCGHVrpEjjtpzNbqAsm1fKlZpEAysb5ZdpbNaGm/FLx5oNvJDpnxB8Yabaz3T3ctvY+IbyGOS4d98kjKJAGcucl88thiTmolSldyXV/mZPB1FF8rtdr8D6M+BGi+Grrwn+yhoeoeCfC+rQeO7rxJbeIrzUdBtZ7+8SK6ljh/0po/NjaMOCHR1YFUGdoxWj+xy1p4R8Ufsu2emeDND1VfGEetX+qeJLzS1m1E3MEs67IblxvgW3SGLKowVhKxIO/J+TbPxJr2m/2Itn4i1mz/ALDaVtJa31O4jbTWlJeZrYiQiEyH5mK4DdW54q94Z+IHjHwPYyWPhrxr4o8OafJObiSz0jWbqzhkmwo8xo4pQNzYXLkZO1afsZcrXUJ4OprZ3v8A1c+hP2evA+n3Xhf9nLRYfhloHivSfH02sjxTrGoaOt3d4juJYNsd0yl7TyIUSQeWyfN8wzk5+fPD8Nv/AMIT4/8AJ8HXfiuK1fT0tfF8N1LHFoSC5cCSSNI2jc3IGweYQQRldx4qpofijxF4X0G/0PRfFGvaLod/v+16TpuqT29ncl1Cv5kUbBHyoCHcDlQM5qrZ6lf6fpeo6VZX99ZaZqXk/btPtbmSO2vBESYlniB2S7WJZN6nB5GRVRptN+Z0UqE6d79Wn+JSvv8Ajzn7/u2/lXU/Er/kdrX/ALFHwn/6j2n1zc8XmwSJnBZSufqK1PFGuxeJNegv4YLi1ij0bRNMaO4K7y9npVtZyuArMNhlhYg5yQVJCkFapp86Z01It1oS6a/oZ22l20tFbHQFFFG00AFFLtNG00AJRS7TRtNACUUu2l20ANop22jbQA2inbaNtADaKdto2igBtFPooAZRTtoo2igBtFPooAZRtNPooAbtNG2nUUAJtFLRRQAUUUUAFFFFABRRRQAUUUUDsFFFFAWCiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAEneottTSfeNR0EsTaKNo9KWigAo2+1FFABx6UUUUAFJtFLRQA3bRt9qdRQA3aaNtOooATbRtFLRQAUUUUAFFLtp1ADdtLtpaKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigdgooooCwUUUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAdJ96oqlk+9TaBMZS806igQ3bRtp1FADdtG2nUUAN20badRQA3mkp9FADKXmnUUAN20badRQAm2loooAKKKKACiiigAooooHYKKKKAsFFFFAwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAHy0ypJKjoEwooooEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQOwUUUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAkkqOpZPu1FQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBLJ92oqlk+7UVABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUCuFFFFAXJZPu1FUsn3aioGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFA9QooooICiiigCWT7tRUUUFBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAmFFFFAgooooAjfAIwWHsEMmPbOD06YB7UUUVzypJu92Ht5LRJfcf/2Q==)Successivamente, possiamo avviare il client, inserendo in input uno degli indirizzi IP che fa parte della famiglia 127.0.0/32.

Terminale di Luca Sugamosto

Vediamo come il server abbia assegnato al client la porta con numero 1025, la prima libera dopo la standard port (1024), ed il client è pronto per accettare le richieste dell’utente.

Chiamando la **Funzione list**, avremo come risultato la lista dei file presenti nella cartella “server UDP”, pronti per essere scaricati con la get.

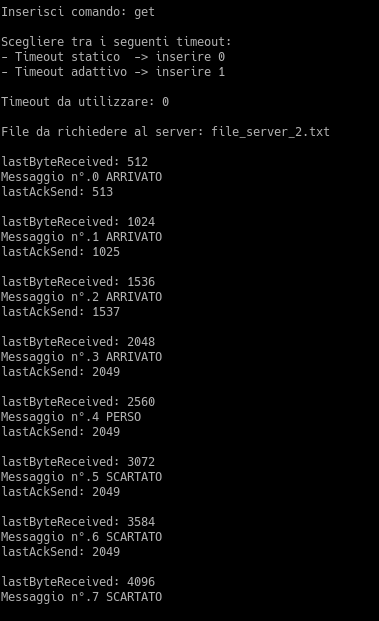
Terminale di Emanuele Arilli

**Text

Description automatically generated**

**Lato client**

Text

Description automatically generatedInvocando la **Funzione get** possiamo quindi scaricare, nella cartella “client UDP”, per esempio il file “file\_server\_2.txt”. Il programma ci chiederà quale tipo di timeout usare, selezionando il valore “0” utilizzeremo quello statico mentre con “1” quello adattivo. Vediamo (figura sottostante a sinistra) come avviene la procedura di trasferimento file (lato client) utilizzando il timeout statico. Vengono stampati gli ultimi byte associati ai messaggi ricevuti, il numero identificativo del messaggio (pacchetto) e il valore dell’ultimo ack inviato al server. In questo caso i primi quattro messaggi (0, 1, 2, 3) vengono ricevuti correttamente dal client, a differenza del 4 che risulta perso, viene perciò rinviato l’ack precedente (2049). Gli altri pacchetti non in ordine vengono correttamente scartati, come da protocollo GBN.

**Lato client**

**Lato server**

Spostandoci nel lato server (figura sovrastante a destra), vediamo come, avendo configurato una finestra di dimensione N = 4, i primi 4 pacchetti vengono inviati in ordine, e ci si mette poi in attesa degli ack, che vengono consegnati correttamente fino al messaggio numero 3. Il messaggio numero 4 non riceve l’ack corretto, infatti il server rimane in attesa dell’ack numero 4, che non viene ricevuto. Arrivano infatti tre volte gli ack riferiti al pacchetto 3, che fanno scattare la condizione di ritrasmissione “Fast retransmit”, che, come vediamo, ritrasmette tutto a partire dal pacchetto 4.

Text

Description automatically generatedPer l’esempio della **Funzione put** scegliamo di utilizzare il timeout adattivo, impostandolo quindi uguale a 1 la variabile associata nel client. Proviamo a trasferire “file\_client\_2.txt” presente nella cartella “client UDP” che verrà quindi salvato nella cartella del server “serve UDP”.

**Lato client**

Avendo scelto una probabilità di perdita del 50%, era molto probabile perdere i pacchetti, e in questo caso abbiamo perso il primo pacchetto, il numero “0”. Continuiamo quindi a ricevere dal server l’ack relativo al byte 0, che viene visto come ack del “messaggio -1” da parte del client. Al terzo ack duplicato si ritrasmette il messaggio 0° che viene finalmente ricevuto dal server poiché è arrivato l’ack di conferma. Inoltre, si stampa a schermo il timeout adattivo che viene calcolato in base al tempo di ricezione del messaggio.

Da parte del server abbiamo lo stesso comportamento che aveva il client nel comando **get**. C’è quindi una semplice attesa dei messaggi in ordine, che vengono riscontrati con gli ack, fino all’ultimo messaggio che con il relativo ack sancisce la fine del trasferimento dati.

**Text

Description automatically generated**Graphical user interface, text

Description automatically generatedChiamando infine il **funzione exit** avremo la chiusura della connessione con il server.

**Lato Server**

**Lato client**

Nel caso in cui l’utente generasse il segnale SIGINT sul client (utilizzando la combinazione CTRL+C), questo provocherebbe un’immediata terminazione del trasferimento di messaggi (sia nel lato client sia nel lato server) nel caso si stia eseguendo un comando, la chiusura della connessione tra il processo client e il processo server e la terminazione del processo client (il processo server rimane in esecuzione).

Nel caso in cui non ci fosse nessun comando da eseguire e quindi il processo client si trovi in attesa di ricezione di comandi/scelte, ci sarebbe una semplice chiusura della connessione e terminazione del processo client.

Immagine che contiene testo

Descrizione generata automaticamenteImmagine che contiene testo

Descrizione generata automaticamente

Caso generazione segnale SIGINT durante attesa comando

Caso generazione segnale SIGINT durante un trasferimento

# Prestazioni

Abbiamo eseguito i test prestazionali sul PC1, ogni variante del trasferimento è stata eseguita tre volte ed è stata fatta una media aritmetica dei tempi. Il file di test utilizzato per il trasferimento è la “Divina\_Commedia.txt” presente nella cartella server UDP, dal peso di 583KB. Tutti i test sono stati effettuati impartendo il comando Get nel client. Scaricando quindi il file dal server nella cartella del client.

\*Tutti i tempi sono espressi in SECONDI

## Analisi prestazioni con variazioni su Prob. Perdita P e Finestra N – Timeout statico = 5000

Possiamo vedere come quella che si comporta prestazionalmente meglio è la finestra di ricezione con N = 4. Questo perché con le perdite che aumentano, c’è la possibilità di usare il fast retransmit, avendo una finestra maggiore di “3”, consentendo di inviare i tre ack ripetuti e anticipare il timeout. Aumentando la finestra di ricezione, ad esempio N = 16, e aumentando la probabilità di perdita, i tempi aumentano. Questo perché utilizzando il protocollo GBN, tutti i pacchetti che sono stati inviati successivamente a quello perso, vanno scartati, anche se effettivamente ricevuti dal client, e avere una finestra troppo grande ci rende il trasferimento troppo lento, perché ho tanti pacchetti fuori ordine che vengono scartati.

Vediamo infine come la variante che influenza più di tutti il trasferimento del file è la probabilità di perdita. Una perdita ancora accettabile è per esempio quella del 10%. Con il 25% di perdita abbiamo i tempi più che raddoppiati, per non parlare di quella al 50%, che ci rende il tempo di trasferimento, anche per un file relativamente piccolo, fin troppo lungo.

Inoltre, fondamentale è l’utilizzo del fast retransmit, come possiamo vedere infatti, i test effettuati con finestra N = 1 e 2, che non lo utilizzano, soffrono tantissimo le perdite, perché devono aspettare lo scattare del timeout ad ogni pacchetto perso.

## Analisi prestazionale con Timeout statico e Adattivo (Dinamico)

Vediamo subito come il timeout adattivo funziona abbastanza bene, e riesce a garantire performance simili, almeno per il caso della finestra N = 1, al timeout più aggressivo di 2500 microsecondi. Aumentando il timeout a 5000 e 10000 microsecondi abbiamo troppe perdite di tempo, le attese dopo un pacchetto danneggiato o perso sono troppo lunghe. Vediamo infatti come per N = 1 passiamo dai 3.3 secondi del timeout adattivo ai 6.6 secondi, a parità di file e probabilità di perdita!

Discorso diverso va fatto per la finestra N=4 e oltre. In questi casi possiamo usare il fast retransmit, e il timeout entra in gioco pochissime volte, spesso una o due, alla fine del trasferimento file, quando vengono persi gli ultimi pacchetti. È quindi poco influente l’utilizzo di tempi diversi

# Manuale per l'installazione, configurazione ed esecuzione del sistema

La cartella principale “Progetto IIW” contiene al suo interno: i due codici relativi all’implementazione del lato client e lato server, chiamati rispettivamente “client\_UDP.c” e “server\_UDP.c”; le due cartelle in cui vengono creati e letti/scritti i file interessati dal trasferimento tra client e server (le cartelle sono chiamate rispettivamente “client UDP” e “server UDP”).

Una volta aperta la cartella “Progetto IIW”, aprire in essa due terminali (uno per l’esecuzione del processo client e l’altro per l’esecuzione del processo server). Inizialmente su un terminale qualsiasi aperto, si creino gli eseguibili per i due processi scrivendo e compilando i seguenti comandi:

* gcc -o client client\_UDP.c
* gcc -o server server\_UDP.c

Successivamente, come prima cosa, scrivere e compilare su un terminale il comando:

* ./server

e solo in seguito sull’altro terminale scrivere e compilare il comando:

* ./client 127.0.0.1

Una volta fatto ciò, verrà stampato a schermo sul terminale del processo client una lista di operazioni tra cui scegliere (**list**, **get**, **put**, **exit**); per selezionarne uno scrivere il nome del comando e premere invio (se viene scritto un nome errato il processo non riconosce il comando associato e chiede di reinserire il comando).

Nel caso venisse selezionato il comando **list** l’utente non deve fare altro che attendere come risposta la lista dei file presenti nella cartella “server UDP”.

Nel caso venisse selezionato il comando **get** l’utente deve scegliere quale timeout utilizzare:

* Se si vuole utilizzare il timeout STATICO inserire 0 e confermare;
* Se si vuole utilizzare il timeout ADATTIVO inserire 1 e confermare.

Una volta deciso quale tipologia di timeout utilizzare viene richiesto all’utente il nome del file da scaricare dal server. Se non esiste in “server UDP” nessun file con il nome inserito allora il processo client risponde comunicando all’utente la non presenza del file e tornerà allo stato di scelta del comando da eseguire. Viceversa, se il file esiste allora inizia il trasferimento del file fino al suo completamento.

Nel caso venisse selezionato il comando **put** l’utente deve scegliere quale timeout usare (identico al caso descritto in precedenza per il comando **get**). Successivamente verrà richiesto di inserire il nome del file da voler inviare al server e quindi da salvare nella cartella “server UDP”. Se in “client UDP” non vi sia nessun file con il nome inserito allora il processo client risponde comunicando all’utente la non presenza del file e tornerà allo stato di scelta del comando da eseguire. Viceversa, se il file fosse presente allora inizia il suo trasferimento fino al completamento.