

utils.py:

Boolean(*success*), **String**(*err_msg*) : send_file(*socket*, *file_descriptor*)

Boolean(*success*), **String**(*err_msg*) : receive_file(*socket*, *file_descriptor*, *first_data_blk*)

Integer (*time_stamp*) : start_timer()

Boolean(*time_is_out*): is_time_out(*time_stamp*, *timer_description*)

client.py: (*pseudo code*)

parse input

send request

open corrects ports, file descriptors

send_file or receive_file

handle error if any

close everything

server.py: (*pseudo code*)

start listening

loop:

 open correct ports, file descriptors

 send_file or receive_file

 handle error if any

 close files / correct ports

paquet.py:

enum OP_CODE

enum ERR_CODE

Paquet : decode_paquet(*BinaryString*)

BinaryString : encode_paquet(*Paquet*)

class DataPaquet

 _op_code

 _blk_nb

 _data

class ErrorPaquet

 _op_code

 _err_code

 _err_msg

class AckPaquet

 _op_code

 _blk_nb

class RequestPaquet

 _op_code

 _filename

 _mode