import socket

import os

import struct

CHUNK\_SIZE = 1024

def receive\_file(save\_dir, port, progress\_callback=None):

sock = socket.socket(socket.AF\_INET, socket.SOCK\_DGRAM)

sock.bind(('', port))

# Receive filename

filename, \_ = sock.recvfrom(CHUNK\_SIZE)

filename = filename.decode()

# Receive file size (8 bytes)

size\_data, \_ = sock.recvfrom(8)

total\_size = struct.unpack("!Q", size\_data)[0]

save\_path = os.path.join(save\_dir, filename)

received = 0

with open(save\_path, 'wb') as f:

while True:

data, \_ = sock.recvfrom(CHUNK\_SIZE)

if data == b'\_\_END\_\_':

break

f.write(data)

received += len(data)

if progress\_callback:

progress\_callback(received, total\_size)

sock.close()