Port Forwarder

COMP 8005 – Final Project - Design Work

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# Client

## Diagram

## Pseudo-code

# Port Forwarder

## Diagram

## Pseudo-code

int main(void){

for each port/ip pair in config file{

fork new process

create pool of read threads

create pool of write threads

bind listen socket to port

connect to endpoint at ip on port with forwardFD

set non-blocking

add listen socket to epoll

loop forever{

epoll\_wait

for socket in epoll{

If socket == listen socket{

Accept

Set not-blocking

Add to epoll

}

else if EPOLLIN{

add to read queue

}

Else if EPOLLOUT{

Add to write queue

}

}

}

}

}

Read thread{

Get accept socket from listen queue

Read from accept socket into forward socket

Close if closed by client

}

Write thread{

Get accept socket from listen queue

Read from forward socket into accept socket

Close if closed by client

}