

README

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一、架設環境

linux

二、執行方式

gcc server.c -o server

gcc client.c -lpthread -o client

或

make

產生兩個檔案(server, client)按照講義方式執行。

./server listen_port

./client -n number -t timeout host_1:port_1 host_2:port_2 ...

其中 -n number 與 -t timeout 可選，不一定要用，default 值 timeout = 1000(ms)

number = 執行直到程式關閉

三、實作內容

client:

```
timeout when connect to 64.233.188.94
s14@s14-VivoBook-S14-X411UF:~/CNS$ ./client -n 8 -t 1500 www.google.tw:80 127.0.0.1:2212 www.msn.tw:80 www.yahoo.tw:80 www.66rpg.com:80
recv from 127.0.0.1, RTT = 36 msec
recv from 127.0.0.1, RTT = 40 msec
recv from 127.0.0.1, RTT = 9 msec
recv from 127.0.0.1, RTT = 7 msec
recv from 127.0.0.1, RTT = 7 msec
recv from 127.0.0.1, RTT = 8 msec
recv from 127.0.0.1, RTT = 7 msec
recv from 127.0.0.1, RTT = 7 msec
recv from 124.108.115.100, RTT = 21 msec
recv from 124.108.115.100, RTT = 6 msec
recv from 124.108.115.100, RTT = 5 msec
recv from 124.108.115.100, RTT = 5 msec
recv from 124.108.115.100, RTT = 4 msec
recv from 124.108.115.100, RTT = 4 msec
recv from 124.108.115.100, RTT = 4 msec
recv from 124.108.115.100, RTT = 4 msec
recv from 47.74.216.103, RTT = 16 msec
recv from 47.74.216.103, RTT = 6 msec
recv from 47.74.216.103, RTT = 6 msec
recv from 47.74.216.103, RTT = 6 msec
recv from 47.74.216.103, RTT = 5 msec
recv from 47.74.216.103, RTT = 5 msec
recv from 47.74.216.103, RTT = 6 msec
recv from 47.74.216.103, RTT = 5 msec
timeout when connect to 64.233.188.94
timeout when connect to 210.65.1.231
timeout when connect to 64.233.188.94
timeout when connect to 210.65.1.231
timeout when connect to 64.233.188.94
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timeout when connect to 64.233.188.94
timeout when connect to 210.65.1.231
recv from 210.65.1.231, RTT = 18 msec
s14@s14-VivoBook-S14-X411UF:~/CNS$
```

1. 傳送訊息至實作的 server，接收回傳，印出所需時間(RTT)或 timeout
2. 將 hostname 翻譯成 IP address
3. 支援自訂的 -n, -t
4. 使用 pthread 同時處理 ping 多個 server 之需求

[illegible]