OS-hw3

summary

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- title:hw3

Usage:

- makefile:

```
make
```

- open server:

```
./server \[-s server\] \[-p port\] \[-h\]
  -s server: specify the server name or address, default: 127.0.0.1
  -p port: specify the server port, default: 12345
  -h :for print this help message
```

- open client:
    - as same as the usage of the original code assistant gave

```
./client \[-u\] \[-r run\] \[-s server\] \[-p port\] \[-h\]
  -u: create request by user input, default: random generation
  -r run: how many request to send
  -s server: specify the server name or address, default: 127.0.0.1
  -p port: specify the server port, default: 12345
  -h :for print this help message
```

description&programming logic:

server.c:

main function:

```
我使用和助教一樣的getopt函式來擷取指令，並將port和domain預設為12345及127.0.0.1
再以getaddrinfo獲取addrinfo鍊結串列s，並嘗試以其中的資訊打開socket
最後設置socket、bind且listen它
而在main function的最後，以一個while無窮迴圈重複查看是否有新的accept進來，若有則create一
個新的pthread處理
而while迴圈結束後，close剛剛開啟的socket
```

server_thread:

```
處理特定accept進來的client，並且以while迴圈以read不斷抓取新的訊息，並write來傳輸回應
每次while循環，將會以memset清除buf和buf_len之值
```