

Project 3 Report

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1 step1

1.1 BDS

1.2 BDC

```

Start listening on port 8086...
New client: 5
Server received 7 bytes on fd 5
Server received 13 bytes on fd 5
Server received 35 bytes on fd 5
Server received 13 bytes on fd 5
Server received 13 bytes on fd 5
Server received 11 bytes on fd 5
Server received 24 bytes on fd 5
Server received 17 bytes on fd 5
Server received 11 bytes on fd 5
Server received 7 bytes on fd 5
client 5 exited
^C
icefox@saber0006:~/project3$

Yes AAAAAABBBB
^C
icefox@saber0006:~/project3/step1$ ./BDC 8086
I
15 15
R 14 14
Yes
W 14 14 10 AAAAAABBBB88888888
Yes
R 14 14
Yes AAAAAABBBB
R 15 15
NO
R A B
NO
W A B 10 AADAFFAFA
NO
W 0 0 10 AS
Yes
R 0 0
Yes AS
E
Bye!
icefox@saber0006:~/project3/step1$
  
```

Figure 1: step1 result

figure 1 shows that BDS can response all kinds of command

2 step2

2.1 BDS

2.2 FS

2.3 FC

step 4 cover it

3 step3

3.1 BDS

3.2 FS

3.3 FC

step 4 cover it

4 step4

4.1 BDS

4.2 FS

4.3 FC

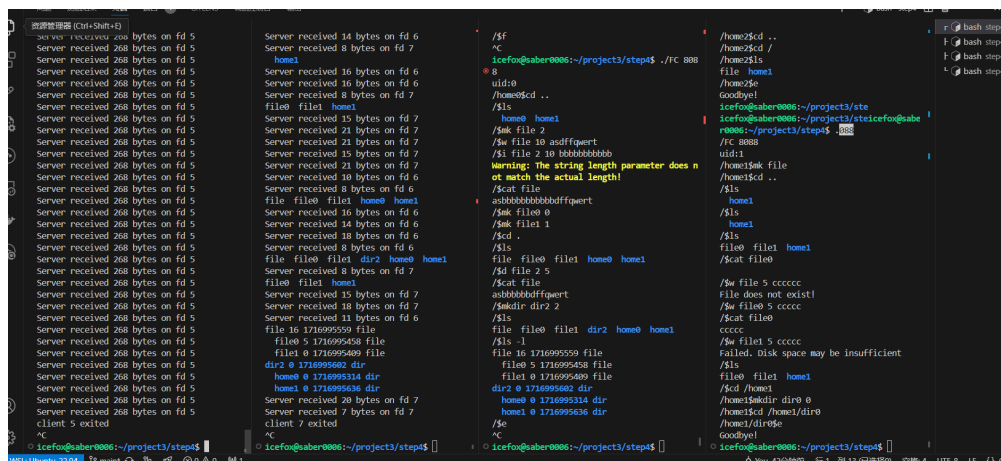


Figure 2: step4 result

Figure 2 show that it can show all kinds of command while more than one clients(users).

Here are some special commands explained:

ls -l: it will ls all the file and dir with its name size time(NULL) type(file or dir);

cd: my project can cd the absolute path like cd /dir/dir and other special path like . ..

file and dir protocol: there is three level file or direction:0 1 2. 0 means everyone can read or write it, 1 means only readable, 2 means neither is able.

no matter what level the file/dir has, super user(uid 0) and its owner have all the permissions of it. each home directory for user is 2 level directory. for the project, i use 4 level code: disk operation superblock inode filesystem.