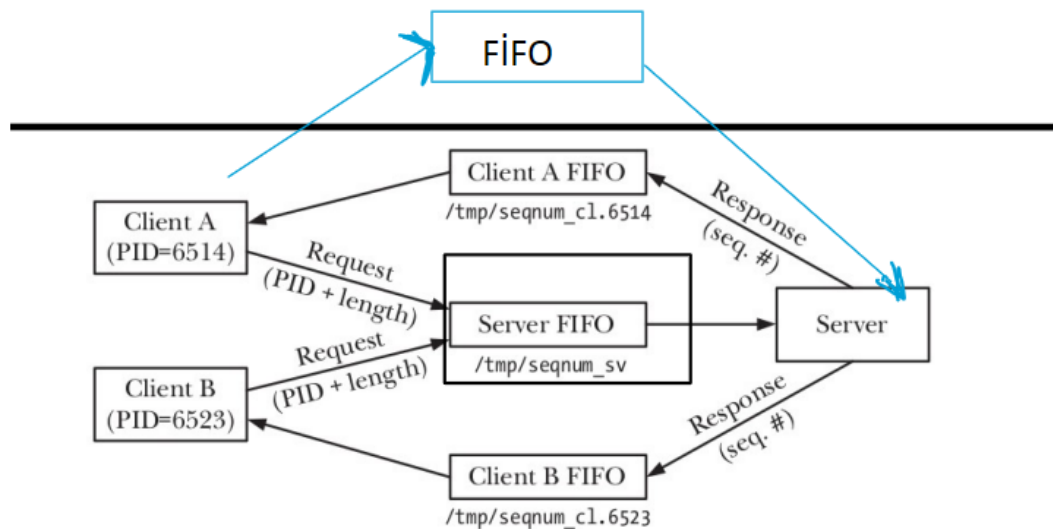Design:

Figure 44-6: Using FIFOs in a single-server, multiple-client application

Server FIFO is used for only server-client connection

Other two fifos (client A FIFO and FİFO) are used for receiving and sending command/output.

We run the server like that:

```
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./server here 3
```

When the server started it will wait for clients to connect:

```
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./server here 3
Server Started PID 14632...
Waiting for clients...
```

We connect the client to our server like that:

```
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./client connect 14632
```

When client connect to the server it will wait to enter a command:

```
server connection: 1server pid: 14632
Enter command:
```

On the other hand, In the server side the connection of the client will be shown:

```
Server Started PID 14632...
Waiting for clients...


Client PID 14659 connected as client1
```

```
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ gcc fifo_seqnum_client.c -o client
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ gcc fifo_seqnum_client.c -o client
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./client connect 14632
server connection: 1server pid: 14632
Enter command:
```

More than one client can be connect to the server:

```
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./serve
Server Started PID 14632...
Waiting for clients...

Client PID 14659 connected as client1
Client PID 14689 connected as client2
```

```
hsnsvn@Ubuntu: ~/Desktop/asdasd/haci7

hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ gcc fifo_seqnum_client.c -o client
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ gcc fifo_seqnum_client.c -o client
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./client connect 14632
server connection: 1server pid: 14632
Enter command:
```

```
hsnsvn@Ubuntu: ~/Desktop/asdasd/haci7

hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./client connect 14632
server connection: 1server pid: 14632
Enter command:
```

We can use "help" command to see all commands:

```
Server Started PID 14632...
Waiting for clients...


Client PID 14659 connected as client1
Client PID 14689 connected as client2
```

```
hsnsvn@Ubuntu: ~/Desktop/asdasd/haci7

hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ gcc fifo_seqnum_client.c -o client
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ gcc fifo_seqnum_client.c -o client
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./client connect 14632
server connection: 1server pid: 14632
Enter command:
help
Request: help


Available comments are:
 help, list, readF, writeT, upload, download, quit, killServer
```

"List" command:

```
hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$
Server Started PID 14722...
Waiting for clients...


Client PID 14730 connected as client1
```

```
hsnsvn@Ubuntu: ~/Desktop/asdasd/haci7

hsnsvn@Ubuntu:~/Desktop/asdasd/haci7$ ./client connect 14722
server connection: 1server pid: 14722
Enter command:
list
Request: list


sonuc
server_log.txt
```

"killServer":

We can also take information from help for other commands: