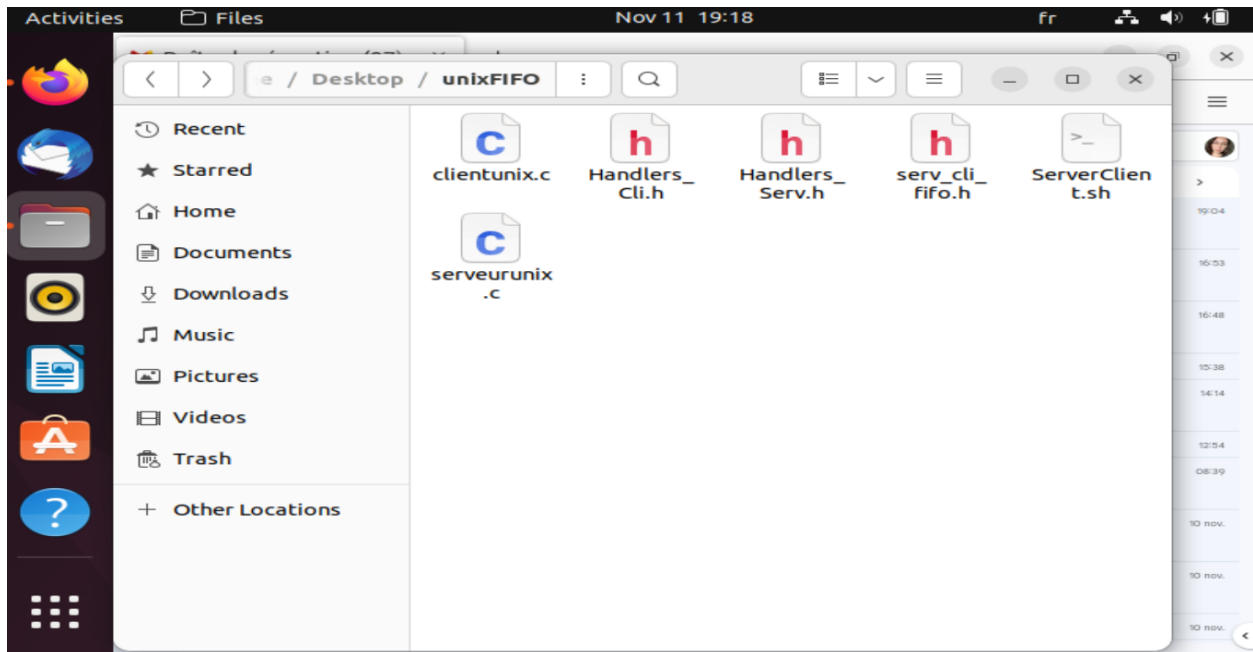


Exécution à la main du programme

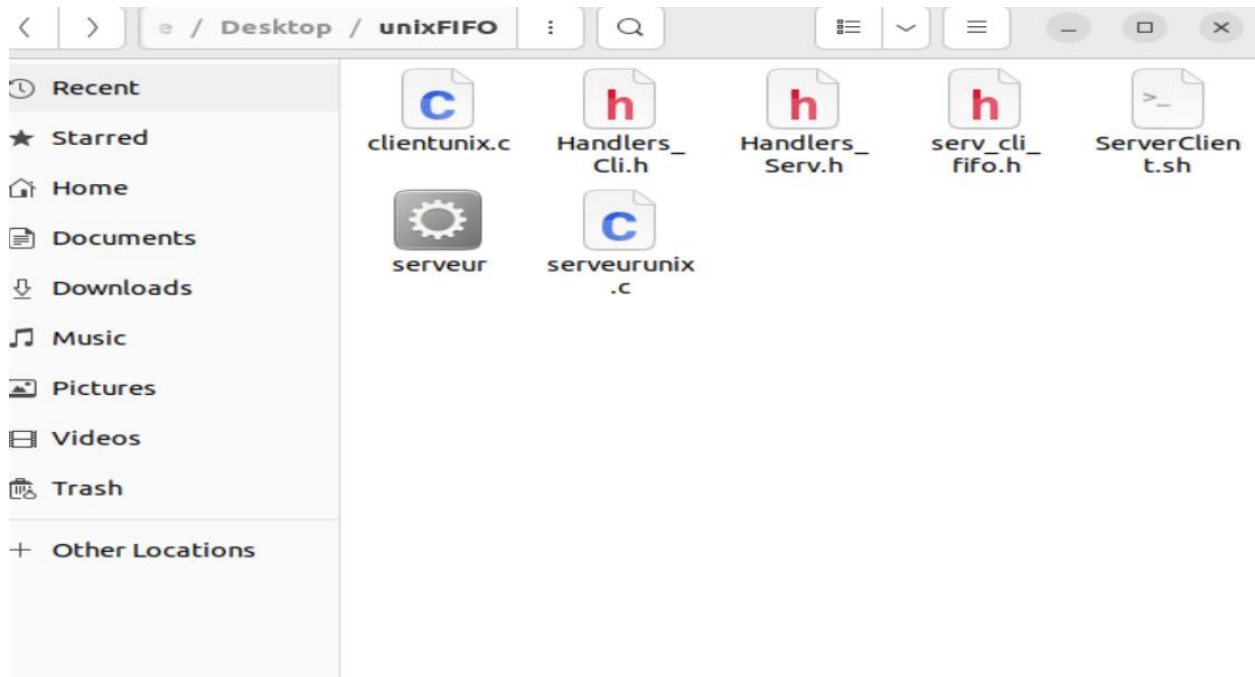


Creation de l'écutable serveur

Gcc serveurunix.c -o serveur

```
doni@ubuntu: ~/Desktop/unixFIFO
doni@ubuntu:~/Desktop/unixFIFO$ gcc serveurunix.c -o serveur
In file included from serveurunix.c:3:
Handlers_Serv.h:3:1: warning: return type defaults to 'int' [-Wimplicit-int]
   3 | hand_reveil(int sig){
     | ^
Handlers_Serv.h:10:1: warning: return type defaults to 'int' [-Wimplicit-int]
  10 | fin_serveur(int sig){
     | ^
serveurunix.c: In function 'main':
serveurunix.c:42:19: warning: passing argument 2 of 'signal' from incompatible
pointer type [-Wincompatible-pointer-types]
   42 |     signal(SIGUSR1, hand_reveil);
     |                   ^
     |                   |
     |                   int (*)(int)
In file included from serveurunix.c:5:
/usr/include/signal.h:88:57: note: expected '__sighandler_t' {aka 'void (*)(int
)'} but argument is of type 'int (*)(int)'
   88 | extern __sighandler_t signal (int __sig, __sighandler_t __handler)
     |                                     ~~~~~
serveurunix.c:45:17: warning: passing argument 2 of 'signal' from incompatible
pointer type [-Wincompatible-pointer-types]
   45 |     signal(i, fin_serveur);
     |             ^
     |             |
     |             int (*)(int)
In file included from serveurunix.c:5:
/usr/include/signal.h:88:57: note: expected '__sighandler_t' {aka 'void (*)(int
)'} but argument is of type 'int (*)(int)'
```

Succès



Création de l'exécutable client

Gcc clientunix.c -o client

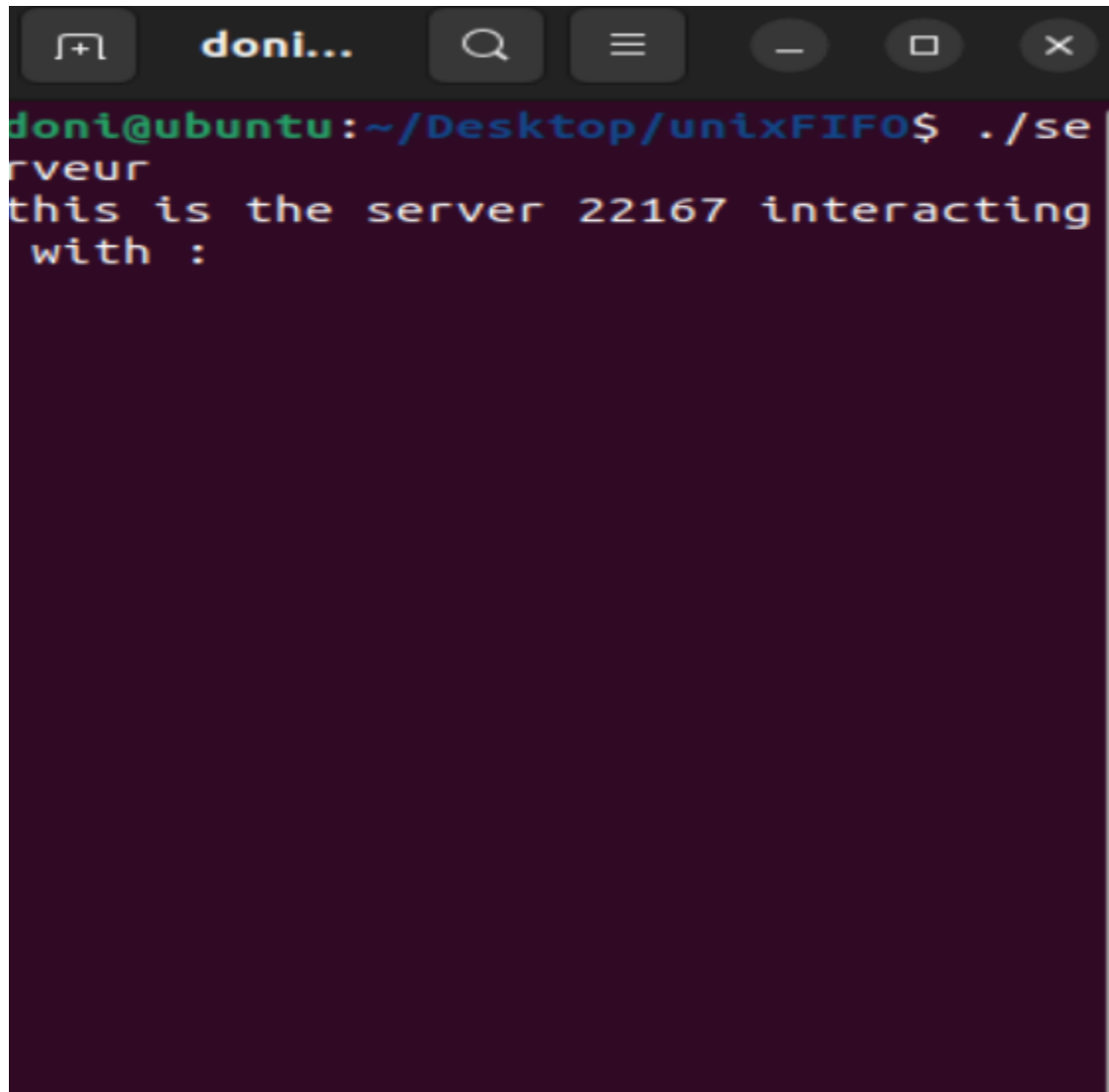
```
doni@ubuntu: ~/Desktop/unixFIFO
doni@ubuntu:~/Desktop/unixFIFO$ gcc clientunix.c -o client
In file included from clientunix.c:2:
handlers_Cli.h:3:2: warning: return type defaults to 'int' [-Wimplicit-int]
  3 |     hand_reveil(int sig){
    |     ~~~~~
clientunix.c: In function 'main':
clientunix.c:19:16: warning: passing argument 2 of 'signal' from incompatible
pointer type [-Wincompatible-pointer-types]
  19 |     signal(SIGUSR1, hand_reveil);
    |                   ~~~~~
In file included from clientunix.c:3:
/usr/include/signal.h:88:57: note: expected '__sighandler_t' {aka 'void (*)(t
')} but argument is of type 'int (*)(int)'
  88 |     extern __sighandler_t signal (int __sig, __sighandler_t __handler)
    |                                     ~~~~~
doni@ubuntu:~/Desktop/unixFIFO$
```

succès



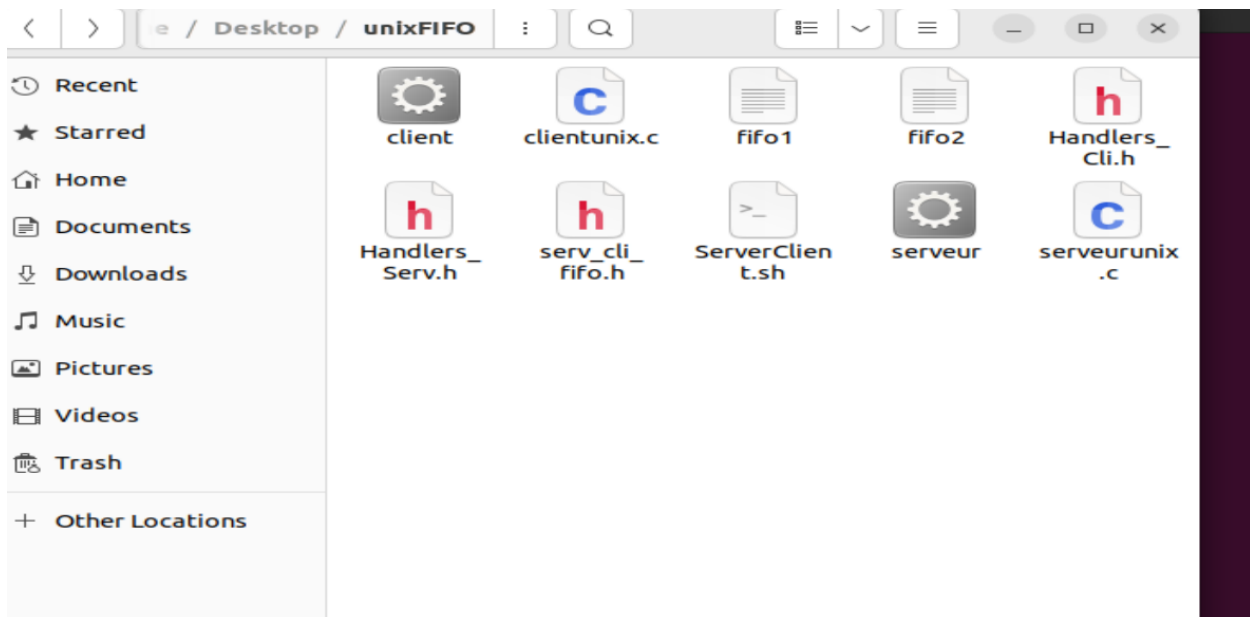
Execution du serveur

`./serveur`

A terminal window with a dark background and light-colored text. The window title bar shows 'doni...' and standard window controls. The terminal content shows the user 'doni' at 'ubuntu' in the directory '~/Desktop/unixFIFO' running the command './se' (partially visible as './se' and 'rveur'). The output is 'this is the server 22167 interacting with :'.

```
doni@ubuntu:~/Desktop/unixFIFO$ ./se  
rveur  
this is the server 22167 interacting  
with :
```

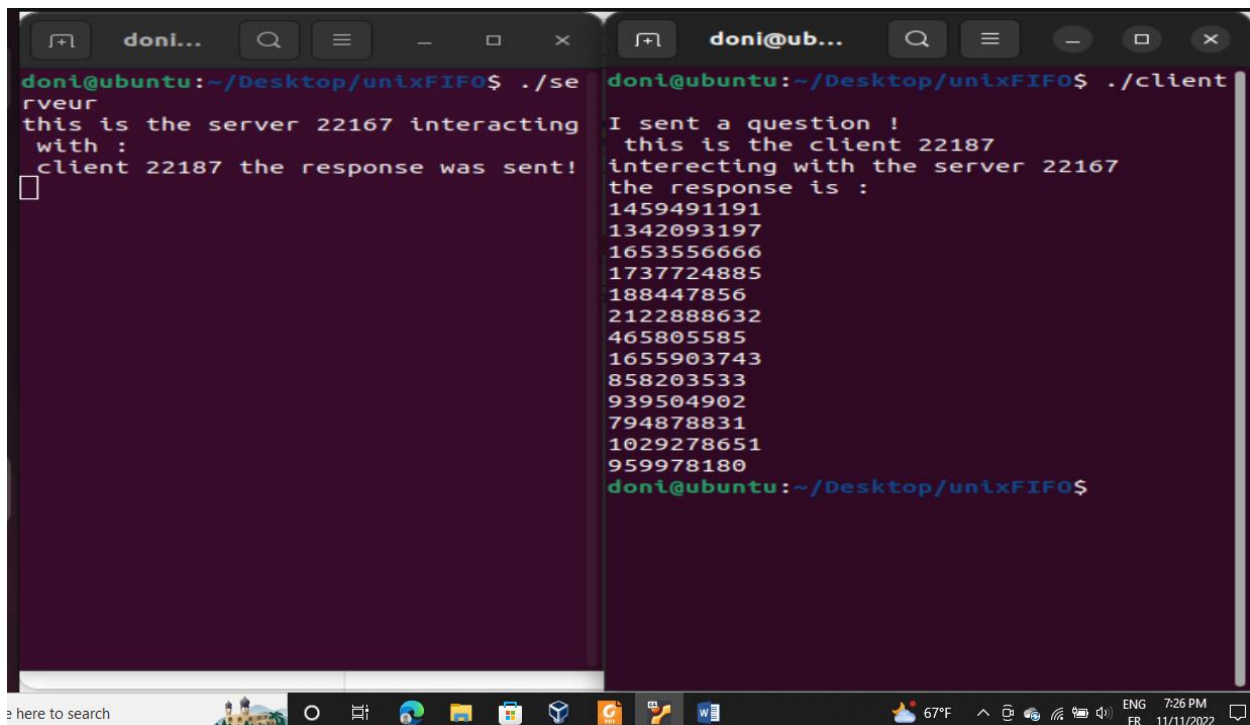
⇒ Serveur ouvert et en attente des clients.



⇒ Creation des fifos est un succès.

Execution du client

./client



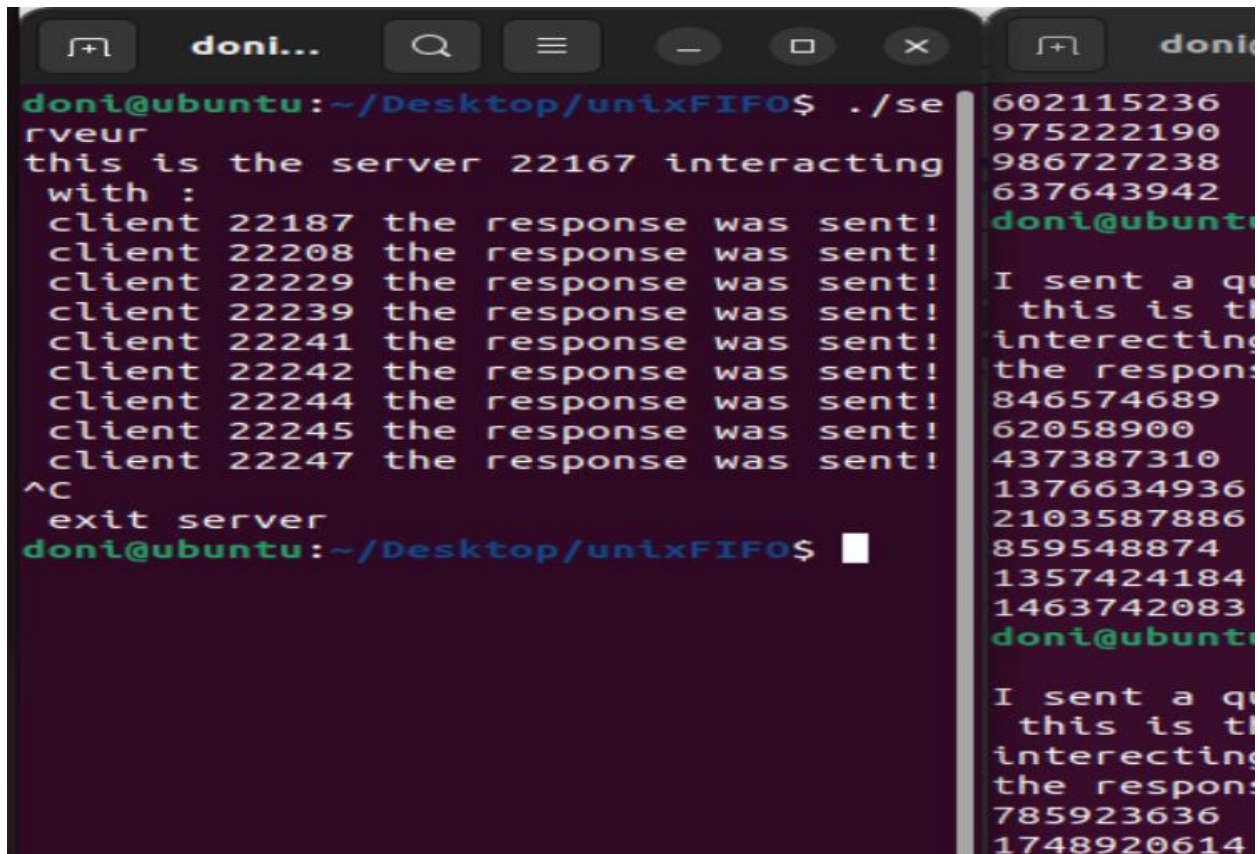
```
doni@ubuntu:~/Desktop/unixFIFO$ ./server
this is the server 22167 interacting
with :
client 22187 the response was sent!
client 22208 the response was sent!
the response is :
1459491191
1342093197
1653556666
1737724885
188447856
2122888632
465805585
1655903743
858203533
939504902
794878831
1029278651
959978180
doni@ubuntu:~/Desktop/unixFIFO$ ./client
I sent a question !
this is the client 22208
interacting with the server 22167
the response is :
623291065
1627821108
54089562
1257694413
60965355
2037486755
800556073
1519283197
doni@ubuntu:~/Desktop/unixFIFO$
```

```
doni@ubuntu:~/Desktop/unixFIFO$ ./server
this is the server 22167 interacting
with :
client 22187 the response was sent!
client 22208 the response was sent!
client 22229 the response was sent!
client 22239 the response was sent!
client 22241 the response was sent!
client 22242 the response was sent!
client 22244 the response was sent!
client 22245 the response was sent!
client 22247 the response was sent!
602115236
975222190
986727238
637643942
doni@ubuntu:~/Desktop/unixFIFO$ ./client
I sent a question !
this is the client 22245
interacting with the server 22167
the response is :
846574689
62058900
437387310
1376634936
2103587886
859548874
1357424184
1463742083
doni@ubuntu:~/Desktop/unixFIFO$ ./client
I sent a question !
this is the client 22247
interacting with the server 22167
the response is :
785923636
1748920614
913296204
1844332704
doni@ubuntu:~/Desktop/unixFIFO$
```

⇒ La communication se fait avec succès via les tubes.

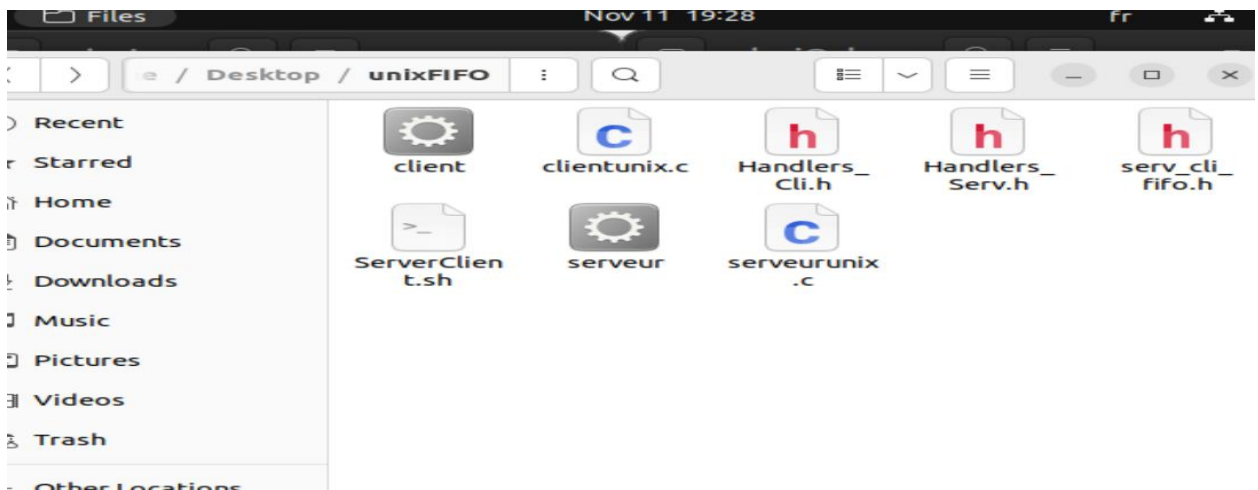
Envoie d'un signal d'interruption

^C



The image shows a terminal window with a dark background. The prompt is `doni@ubuntu:~/Desktop/unixFIFO$`. The user has run `./serveur`, and the output shows the server interacting with clients. The server prints "this is the server 22167 interacting with :". Then, it lists several clients and their responses: "client 22187 the response was sent!", "client 22208 the response was sent!", "client 22229 the response was sent!", "client 22239 the response was sent!", "client 22241 the response was sent!", "client 22242 the response was sent!", "client 22244 the response was sent!", "client 22245 the response was sent!", and "client 22247 the response was sent!". After this, the user presses `^C`, and the server prints "exit server". The prompt returns to `doni@ubuntu:~/Desktop/unixFIFO$`. On the right side of the terminal, there is a list of numbers: 602115236, 975222190, 986727238, 637643942, 846574689, 62058900, 437387310, 1376634936, 2103587886, 859548874, 1357424184, 1463742083, 785923636, and 1748920614. Below this list, the text "I sent a q" and "this is t" is visible, followed by "interacting" and "the respon:".

```
doni@ubuntu:~/Desktop/unixFIFO$ ./serveur
this is the server 22167 interacting
with :
client 22187 the response was sent!
client 22208 the response was sent!
client 22229 the response was sent!
client 22239 the response was sent!
client 22241 the response was sent!
client 22242 the response was sent!
client 22244 the response was sent!
client 22245 the response was sent!
client 22247 the response was sent!
^C
exit server
doni@ubuntu:~/Desktop/unixFIFO$
```



⇒ Suppression automatique des fifos via unlink cite dans le handler fin serveur.