

Belmouloud mustapha

tp0 system d'exploitation

exo4

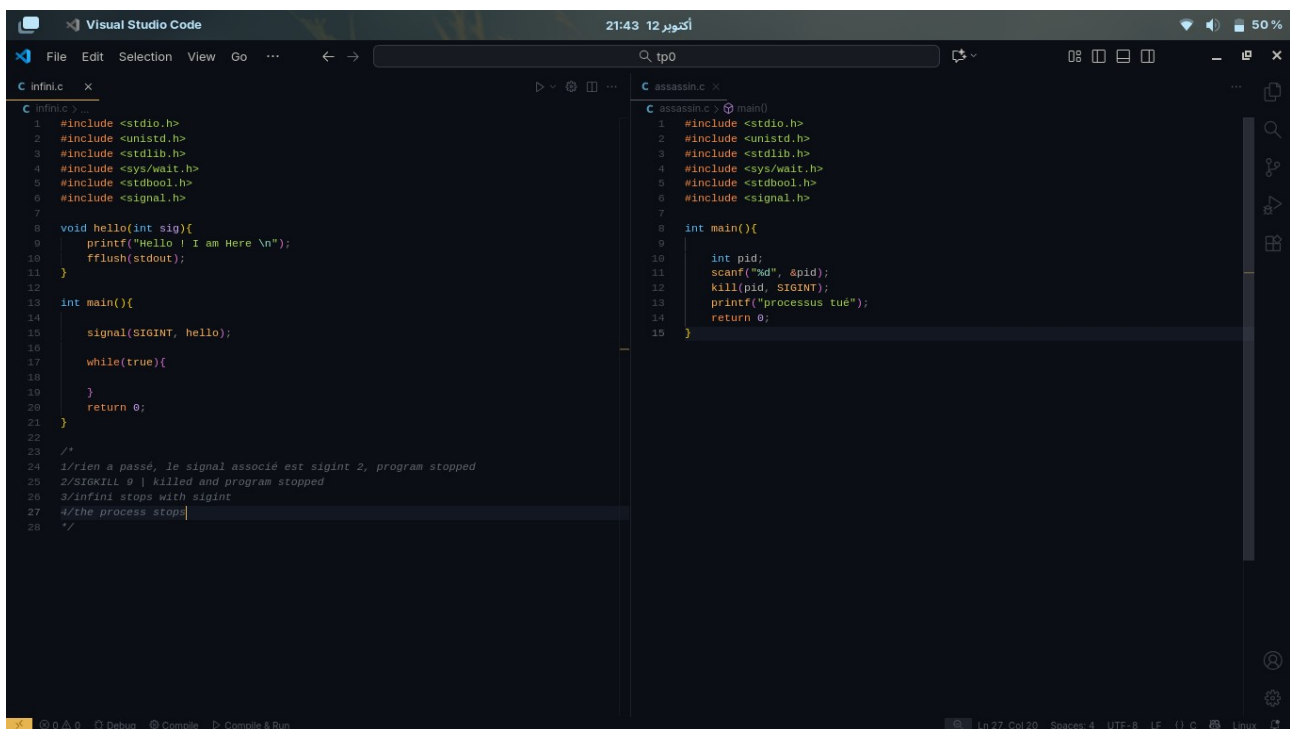
1/le programme infinix arrete avec un signal 2 SIGINT

2/le programme infinix arrete avec un signal 9 SIGKILL

3/assassin arrete infinix avec un signal 2 SIGINT

4/le SIGINT est pour les interruptions, le SIGKILL est pour forcer le process a arreter

note secondaire: j'ai utilisé echo \$? pour savoir les signaux executés, le resultat est 128 + numero de signal



The screenshot shows the Visual Studio Code editor with two C programs open. The left editor shows `infinix.c` and the right editor shows `assassin.c`. The status bar at the bottom indicates the file is `Ln 17, Col 20`, using `UTF-8` encoding, `LF` line endings, and the `Linux` platform.

```
infinix.c
1 #include <stdio.h>
2 #include <unistd.h>
3 #include <stdlib.h>
4 #include <sys/wait.h>
5 #include <stdbool.h>
6 #include <signal.h>
7
8 void hello(int sig){
9     printf("Hello ! I am Here \n");
10    fflush(stdout);
11 }
12
13 int main(){
14     signal(SIGINT, hello);
15
16     while(true){
17     }
18     return 0;
19 }
20
21 /*
22 1/rien a passé, le signal associé est sigint 2, program stopped
23 2/SIGKILL 9 | killed and program stopped
24 3/infinix stops with sigint
25 4/the process stops
26 */
27
28 assassin.c
1 #include <stdio.h>
2 #include <unistd.h>
3 #include <stdlib.h>
4 #include <sys/wait.h>
5 #include <stdbool.h>
6 #include <signal.h>
7
8 int main(){
9
10     int pid;
11     scanf("%d", &pid);
12     kill(pid, SIGINT);
13     printf("processus tué");
14     return 0;
15 }
```

```
Terminal 21:05 أكتوبر 12 67 %
crow@nest: ~/uni/rsd-s1/sys/tp0

crow@nest:~/uni/rsd-s1/sys/tp0$ ./infini
^C
crow@nest:~/uni/rsd-s1/sys/tp0$ echo $?
130
crow@nest:~/uni/rsd-s1/sys/tp0$ ./infini
Killed
crow@nest:~/uni/rsd-s1/sys/tp0$ kill -l
 1) SIGHUP      2) SIGINT      3) SIGQUIT     4) SIGILL      5) SIGTRAP
 6) SIGABRT     7) SIGBUS      8) SIGFPE      9) SIGKILL     10) SIGUSR1
11) SIGSEGV     12) SIGUSR2     13) SIGPIPE     14) SIGALRM     15) SIGTERM
16) SIGSTKFLT   17) SIGCHLD     18) SIGCONT     19) SIGSTOP     20) SIGTSTP
21) SIGTTIN     22) SIGTTOU     23) SIGURG      24) SIGXCPU     25) SIGXFSZ
26) SIGVTALRM   27) SIGPROF     28) SIGWINCH    29) SIGIO       30) SIGPWR
31) SIGSYS      34) SIGRTMIN    35) SIGRTMIN+1  36) SIGRTMIN+2  37) SIGRTMIN+3
38) SIGRTMIN+4  39) SIGRTMIN+5  40) SIGRTMIN+6  41) SIGRTMIN+7  42) SIGRTMIN+8
43) SIGRTMIN+9  44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9  56) SIGRTMAX-8  57) SIGRTMAX-7
58) SIGRTMAX-6  59) SIGRTMAX-5 60) SIGRTMAX-4  61) SIGRTMAX-3  62) SIGRTMAX-2
63) SIGRTMAX-1  64) SIGRTMAX
crow@nest:~/uni/rsd-s1/sys/tp0$ ./infini
Killed
crow@nest:~/uni/rsd-s1/sys/tp0$ echo $?
137
crow@nest:~/uni/rsd-s1/sys/tp0$
```

```
Terminal 21:06 أكتوبر 12 66 %
crow@nest: ~/uni/rsd-s1/sys/tp0

crow@nest:~/uni/rsd-s1/sys/tp0  crow@nest:~/uni/rsd-s1/sys/tp0

8426 ?      00:00:01 kworker/u9:2-rtw_tx_wq
8587 ?      00:00:00 kworker/u8:1-events_power_efficient
8596 ?      00:00:00 kworker/u8:3-events_unbound
8605 ?      00:00:00 kworker/0:1-events
8612 ?      00:00:09 nautilus
8646 ?      00:00:00 kworker/2:0-mm_percpu_wq
9739 ?      00:00:13 code
9743 ?      00:00:00 code
9744 ?      00:00:00 code
9746 ?      00:00:00 code
9761 ?      00:00:00 chrome_crashpad
9780 ?      00:00:25 code
9791 ?      00:00:01 code
9819 ?      00:01:25 code
10085 ?     00:00:09 code
10448 ?     00:00:01 code
10460 ?     00:00:33 code
10534 ?     00:00:11 cpptools
10545 ?     00:00:00 kworker/1:1-events
10594 ?     00:00:00 cpptools-srv
10666 ?     00:00:00 kworker/u9:3-rtw_tx_wq
10682 ?     00:00:02 code
10708 ?     00:00:00 cpptools-srv
10716 pts/0   00:00:00 bash
11000 ?     00:00:00 kworker/u8:0-events_power_efficient
11067 ?     00:00:03 gnome-terminal-
11085 pts/1   00:00:00 bash
11350 ?     00:00:00 kworker/3:1-1915-unordered
11375 ?     00:00:00 Web Content
11419 ?     00:00:00 kworker/u9:0-1915_flip
11459 pts/2   00:00:00 bash
11693 ?     00:00:00 kworker/1:0-events
11737 pts/1   00:00:06 infini
11738 pts/2   00:00:00 ps
crow@nest:~/uni/rsd-s1/sys/tp0$ kill -9 11737
crow@nest:~/uni/rsd-s1/sys/tp0$
```

```
Terminal 21:14 12 أكتوبر crow@nest: ~/uni/rsd-s1/sys/tp0

crow@nest: ~/uni/rsd-s1/sys/tp0

9780 ? 00:00:45 code
9791 ? 00:00:01 code
9819 ? 00:02:29 code
10085 ? 00:00:11 code
10448 ? 00:00:01 code
10460 ? 00:00:47 code
10534 ? 00:00:18 cpptools
10666 ? 00:00:00 kworker/u9:3-rtw_tx_wq
10682 ? 00:00:03 code
10708 ? 00:00:00 cpptools-srv
10716 pts/0 00:00:00 bash
11000 ? 00:00:00 kworker/u8:0-events_unbound
11067 ? 00:00:06 gnome-terminal-
11085 pts/1 00:00:00 bash
11350 ? 00:00:01 kworker/3:1-i915-unordered
11375 ? 00:00:00 Web Content
11419 ? 00:00:00 kworker/u9:0-rtw_tx_wq
11459 pts/2 00:00:00 bash
11739 ? 00:00:00 kworker/3:0-i915-unordered
11740 ? 00:00:00 kworker/0:0-events
11742 ? 00:00:00 kworker/u9:1-i915_flip
11791 ? 00:00:00 kworker/u8:2-flush-259:0
11806 ? 00:00:00 kworker/1:1-events
11813 ? 00:00:00 kworker/2:1-events
11847 ? 00:00:00 kworker/0:2-mm_percpu_wq
11996 ? 00:00:00 kworker/3:2-i915-unordered
12002 ? 00:00:00 kworker/u9:2-rtw_tx_wq
12063 ? 00:00:00 kworker/u8:1-events_power_efficient
12064 ? 00:00:00 code
12090 ? 00:00:00 cpptools-srv
12115 pts/1 00:00:28 infin
12122 ? 00:00:00 kworker/1:0-events
12123 pts/2 00:00:00 ps
crow@nest:~/uni/rsd-s1/sys/tp0$ ./assassin
12115
processus tuécrow@nest:~/uni/rsd-s1/sys/tp0$
```

```
Terminal 21:15 12 أكتوبر crow@nest: ~/uni/rsd-s1/sys/tp0

crow@nest: ~/uni/rsd-s1/sys/tp0

crow@nest:~/uni/rsd-s1/sys/tp0$ ./infini
crow@nest:~/uni/rsd-s1/sys/tp0$ echo $?
130
crow@nest:~/uni/rsd-s1/sys/tp0$
```

