

Date: 18-10-21

signal handling

- signal is a notification to a process that an event has occurred
- signals are known as software interrupts
- signals are similar to h/w interrupts in that they interrupt the normal flow of execution of program.
- in general it is not possible to predict when signal arises most of the cases.

① → main()

printf("hello..%n"); ✓

~~fat *p = 0;~~

P[0] ✓

printf("%d\n"; *p)

3

↳ segmentation fault (11)
↳ core dump

\$ cc p1.c

\$./a.out

hello

↳ process receiving signal
(SIGSEGV) ✓

② main()

while ()

printf("hello -- %i");

3

hello

hello

hello

:

ctrl + C

ctrl + C

↳ signal

②

ctrl + I

↳ signal

③

③

main()
{

int a=10, b=0;

printf("Hello--\n"); ✓

int res;

res = a/b.

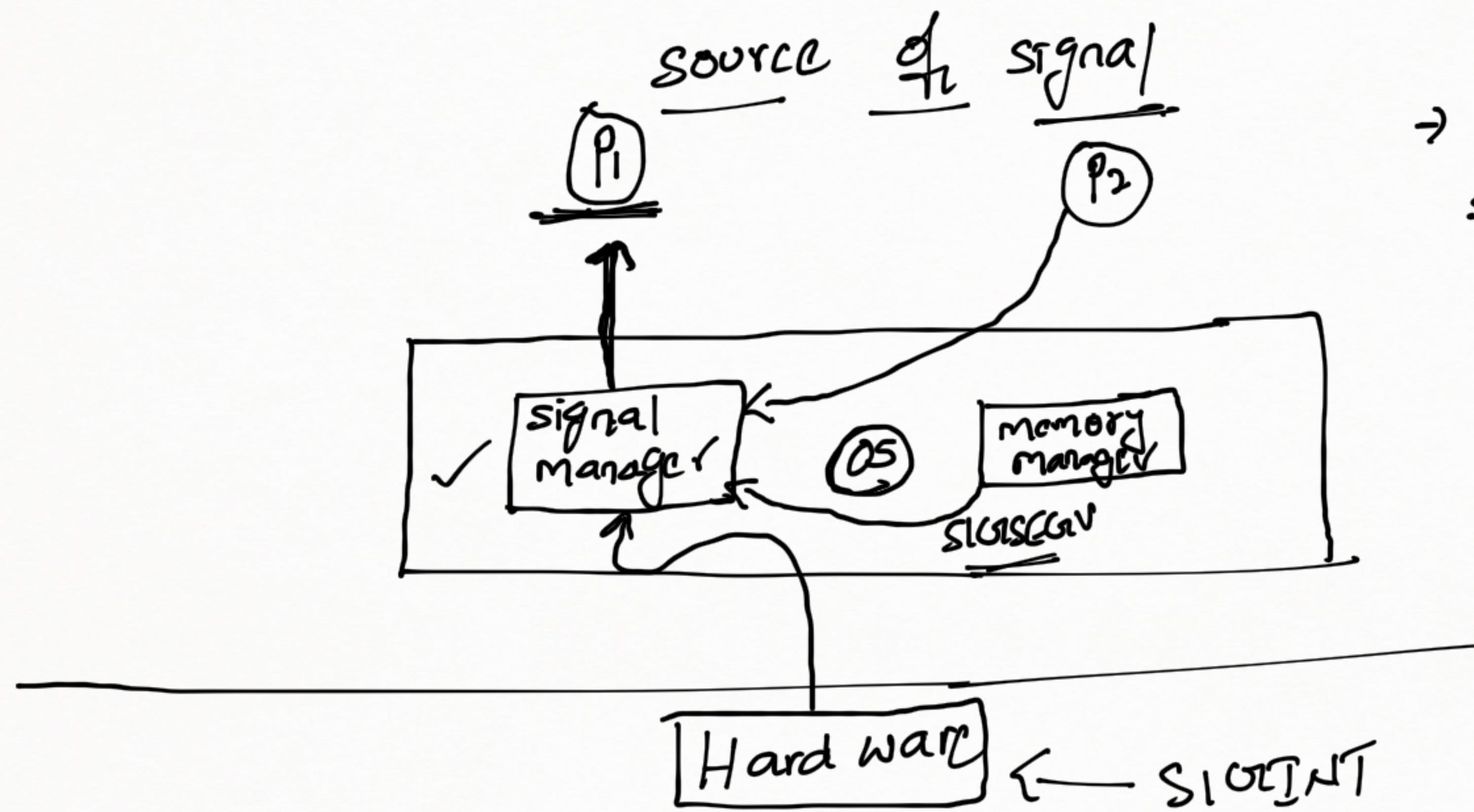
→ floating point exception

printf("%d\n", res);

SIGFPE (8)

3

✓



① from the H/W

② from the terminal

\\$ kill -q pid

③ from another process

→ upon delivery of a signal process carry out one of the following default actions.

① ignore the signal

② termination of the process

③ coredump: A file coredump is generated and process terminated

- ④ stop: process stopped (suspended)
- ⑤ continue: process continued (resume)
- ⇒ Instead of accepting default action programmer can change the action
- ~~sending and receiving signals~~
- sending signals from one process to other process
we can use KERNEL syscall
- possible to send signal to the same process by calling sysctl function

→ you can make process to sleep until any signal arriving using pause)

~~§ - La 9th~~ 3 1258

kifell)
yaiesel)
parusel) 

\$. \ a - out signo pid

o = Kill(atoi(argv[2]), atoi(argv[1]))