

1. Fork

Library: `unistd`

return value:

- 0 - returned in the child
- 1 - fail, returned in the parent
- PID > 0 - returned in the parent

Successful

2. Wait

Libraries: `#include <sys/types.h>`
`#include <sys/wait.h>`

Return value:

- on success: - returns the process ID of the terminated child
- on error -1 is returned.

exec() family of functions:
replaces the current process image with a new process image

Library: #include <unistd.h>
it only returns if there was an error
↳ -1

system(C) - creates a child process and let's you run shell code in C
↳ does it for you unlike exec

C=NULL
 ↳ ≠ 0 shell available
 ↳ = 0 shell not available

C ≠ NULL
 ↳ -1 err. case
 ↳ termination status of command

Ex: system("ls")

Signal (S, funct)

S - int

funct - void (*f)(int)

Ex: #include <signal.h>

void f(int s){

printf("Print something");

return

int main(){

signal(SIGINT, f);

while(1);

return 0;

man 7 signal

kill (int PID, int S)

Library: #include <signal.h>

Return: | 0 - if successful
| -1 - there is an error