

Appunti laboratorio

Random

- non serve using namespace std
- in C non esiste passare per riferimento
- è obbligatorio mettere i permessi dopo i flag se si usa O_CREAT
- SIGCHLD sempre poter essere utile e importante
- per sicurezza lavorando con più processi è meglio lavorare con i file descriptor
- 0777 come permesso nel dubbio
- gestisci gli errori con errno e perror
- exit come fare return dal main
- le cose sono persistenti tra programmi diversi

C

Passare array come parametro

```
//When passing an array as a parameter, this  
void arraytest(int a[])  
//means exactly the same as  
void arraytest(int *a)  
//so you are modifying the values in main. (For historical reasons, arrays  
are not first class citizens and cannot be passed by value)
```

String Read Only

```
char* string = "ciao; // READ-ONLY
```

Fork

```
if(child == 0)  
{  
    exit(0); //uscire dai figli con exit() e non return (ricordati cosa  
diceva stackoverflow).  
}
```

Segnali

```
signal(SIGINT,SIG_IGN); //Ignore signal
```

Segnali

Signal	Default action	Description
SIGABRT	Terminate (core dump)	Process abort signal
SIGALRM	Terminate	Alarm clock
SIGBUS	Terminate (core dump)	Access to an undefined portion of a memory object
SIGCHLD	Ignore	Child process terminated, stopped, or continued
SIGCONT	Continue	Continue executing, if stopped
SIGFPE	Terminate (core dump)	Erroneous arithmetic operation
SIGHUP	Terminate	Hangup
SIGILL	Terminate (core dump)	Illegal instruction
SIGINT	Terminate	Terminal interrupt signal (Ctrl+C)
SIGKILL	Terminate	Kill (cannot be caught or ignored)
SIGPIPE	Terminate	Write on a pipe with no one to read it
SIGPOLL	Terminate	Pollable event
SIGPROF	Terminate	Profiling timer expired
SIGQUIT	Terminate (core dump)	Terminal quit signal
SIGSEGV	Terminate (core dump)	Invalid memory reference
SIGSTOP	Stop	Stop executing (cannot be caught or ignored)
SIGSYS	Terminate (core dump)	Bad system call
SIGTERM	Terminate	Termination signal
SIGTRAP	Terminate (core dump)	Trace/breakpoint trap
SIGTSTP	Stop	Terminal stop signal
SIGTTIN	Stop	Background process attempting read
SIGTTOU	Stop	Background process attempting write
SIGUSR1	Terminate	User-defined signal 1
SIGUSR2	Terminate	User-defined signal 2
SIGURG	Ignore	Out-of-band data is available at a socket
SIGVTALRM	Terminate	Virtual timer expired
SIGXCPU	Terminate (core dump)	CPU time limit exceeded
SIGXFSZ	Terminate (core dump)	File size limit exceeded

Signal	Default action	Description
SIGWINCH	Ignore	Terminal window size changed