swap

It is a temporary memory used to save pending process.

ps

ps command is used list out all the running processes.

```
iotdev$ man sleep
iotdev$ ./a.out
value of index=0
value of index=0
value of index=1
value of index=1
value of index=2            iotdev$ ps -e o cmd,pid,ppid | grep a.out
value of index=2            ./a.out                    9427    8090
value of index=3            grep --color=auto a.out    9447    9428
value of index=3            iotdev$
value of index=4
value of index=4
value of index=5
value of index=5
value of index=6
value of index=6
value of index=7
value of index=7
value of index=8
value of index=8
value of index=9
value of index=9
value of index=10
value of index=10
value of index=11
value of index=11
value of index=12
value of index=12

bash                      8090        7986
```

```
ps -e o cmd,pid,ppid
```

- -e ⇒
- o ⇒ format
- cmd ⇒ command/process name
- pid ⇒ personal id
- ppid ⇒ parent personal id

posix

POSIX ⇒ Portable OS Interface is standard of linux OS.

OS programming is aka system programming.

Sequential ⇒ 0.682809 seconds
with fork() ⇒ 0.205632 seconds