Will start in 5 minutes

Agenda

- Users, groups, permissions.
- Process & threads
- Signals

Users & groups

chmod

/developers/src/index.html

group → dev-group → rwx

- Siddhu:
  - Krishna
  - Ananta
  - Ankit

testers → r-x

- gautam

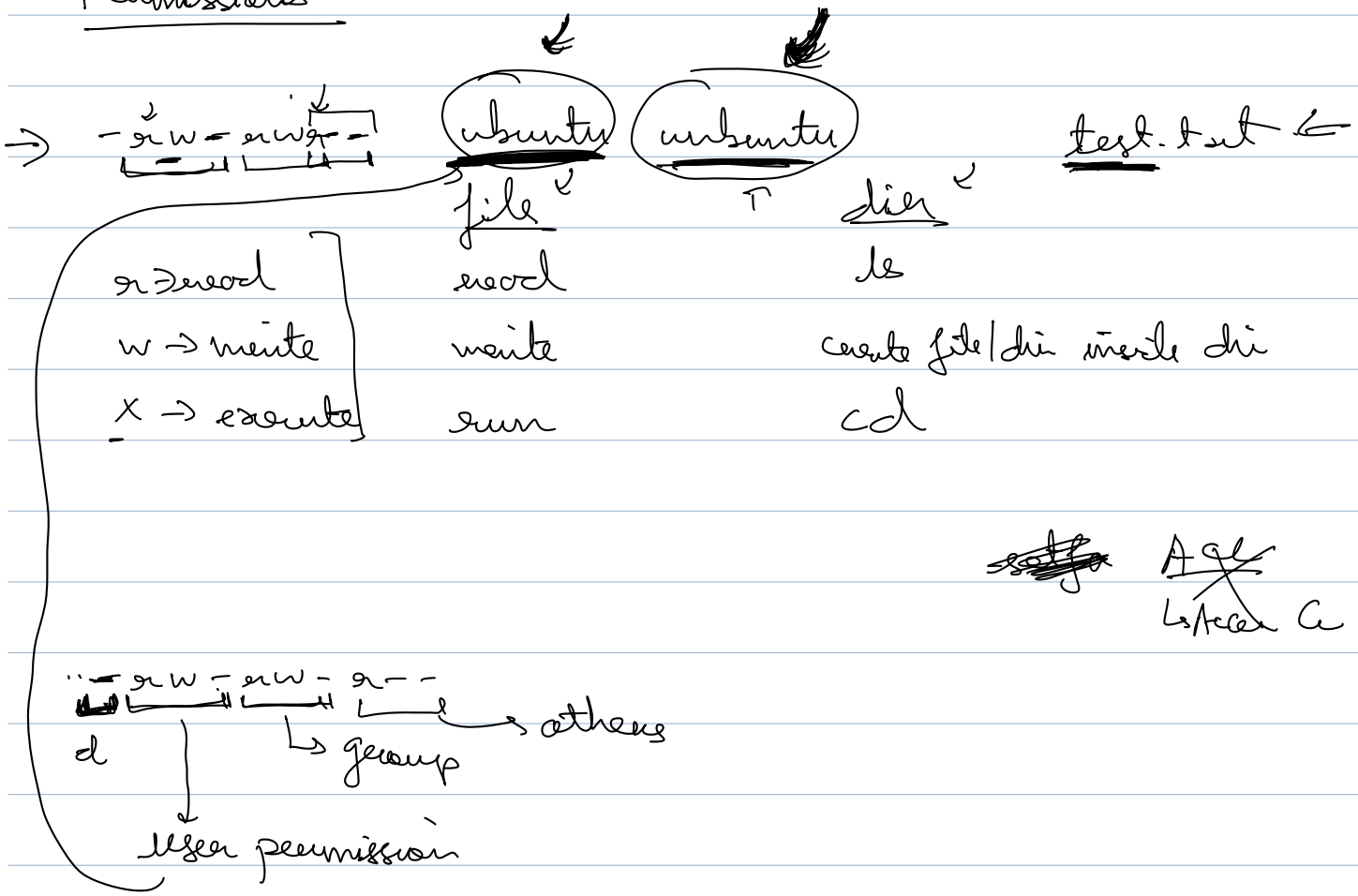
su → super user ← (su) → super user

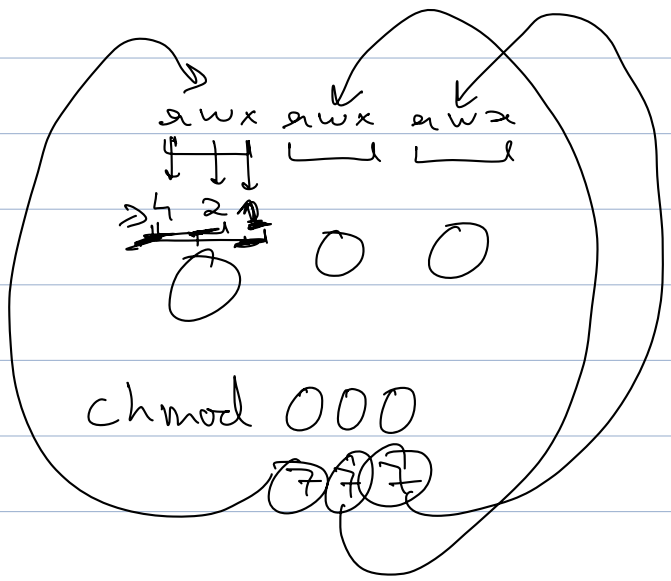
sudo →

mkdir — ✗

sudo mkdir — ✓

Permissions





r → 4

rw → 6

rwx → 7

-wx → 3

r-x → 5

4 ≠ 1 ✗

r w x

0 0 0

1 0 0 → 4

1 0 1 → 5

Imagine you are a devops engineer with root access and your task is to setup a secure environment for an app.
You are working with a team that has devs, testers and PM
- Devs have access to the source code directory for modifications but not testing or reports
- Testers can access the testing directory but not source code or reports
- PMs can only access the reports directory

Step 1:
↳ create group ->

Step 2:
↳ create users & set password.

Step 3:
↳ Add users to specific groups.

Step 4:
↳ Create the dir

Step 5
↳ Set permissions

Processes & threads

Word Process

- auto saving
- spell check
- grammar check
- translate
- update UI
- updates
- formatting

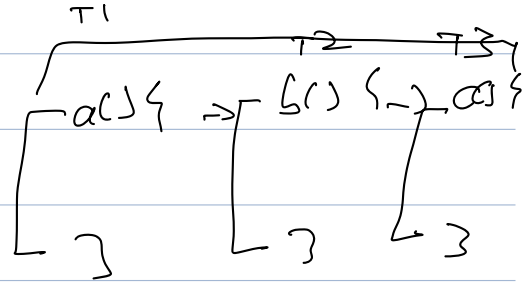
"parallel"

```
main() {
  ___
  ___
  gram()
  tran()
}
```

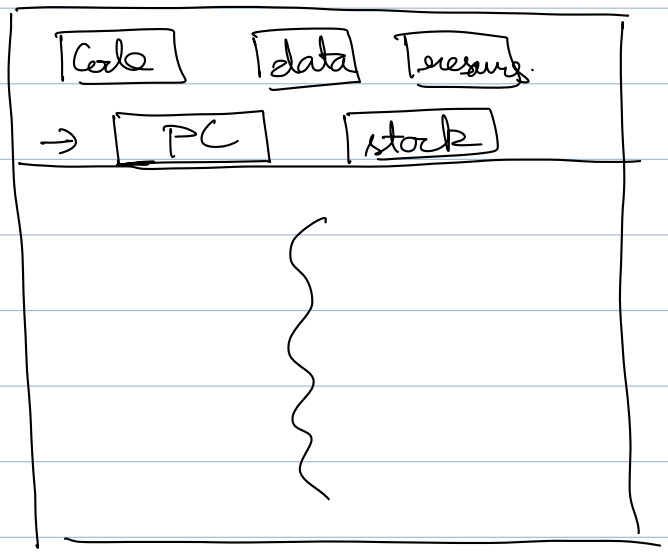
Threads

- child process
- lightweight process.

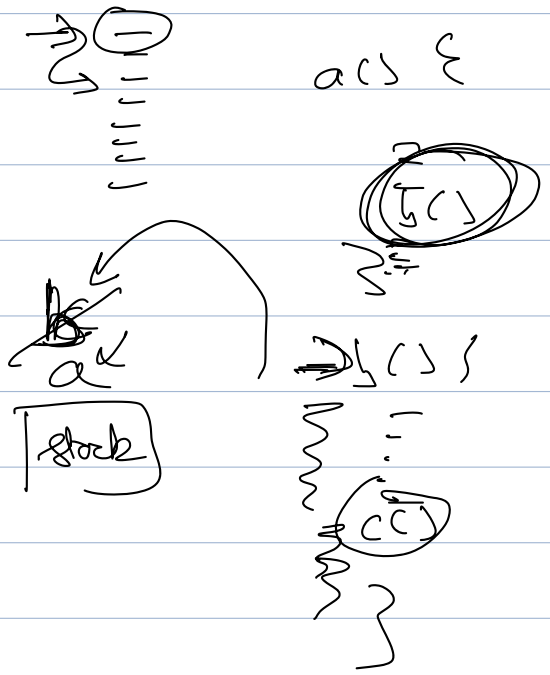
→ Execution unit of a CPU.



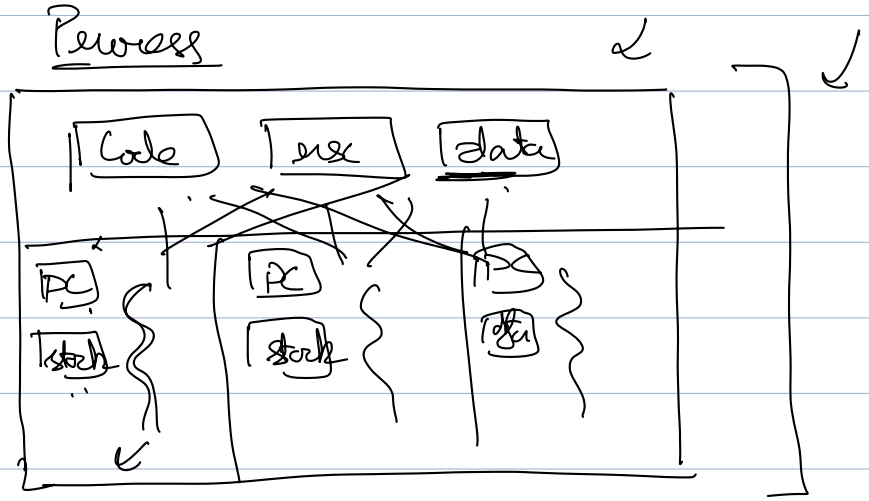
Process



"parallel"

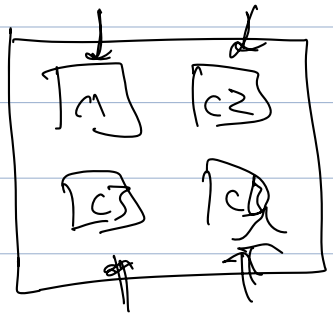


Process



Single vs Multi Core CPU

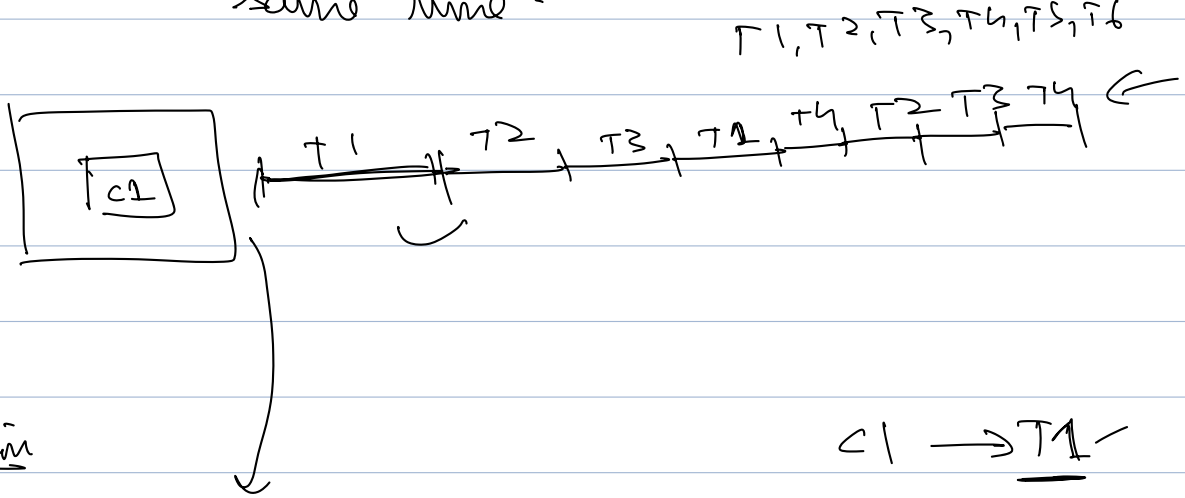
↳ execution unit of a CPU



One core can execute only one thread at a time

Concurrency vs parallelism

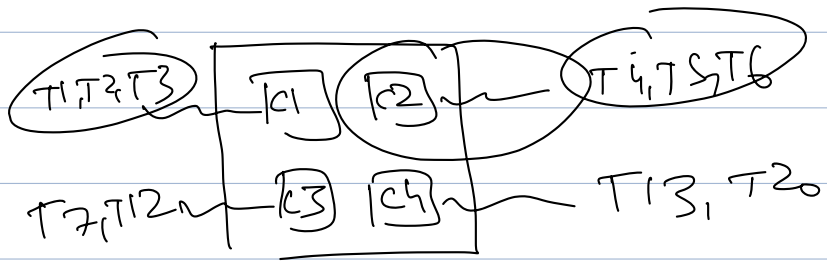
Concurrency → When a system can have multiple threads in diff stages of execution but not making progress at the same time.

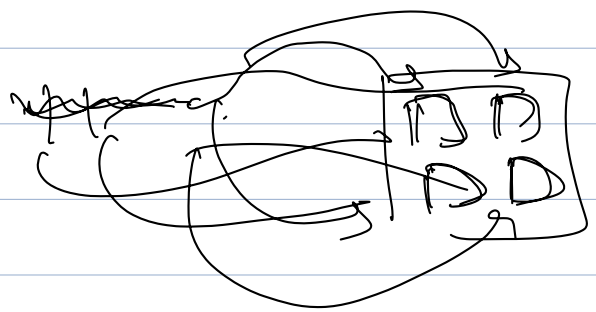


Parallelism

C1 → T1

C2 → T2





chmod 000

777

ls -l