System calls

Friday, March 1, 2019 10:41 AM

* Lystern alls is the way uses programs request services from the OS.

* sydero calls use software ontermyts.

- apor (filerame, mode)
- -> read (file, buffer, sine)
- -> worte (file, buffer, sire)
- -> foole()
- -> enecve (cood, args)



A Difference betoen software interments and function calls?

dysteros calls / software sortewupts
sun'tch from user mode to keenel
mode. Os needs frivileged instructions
that can be only enecuted in kouncl
mode.

enecuted by the OS on kennel mode are included on system earls.

sho(n), wos(n) and not eyetom calls mallor (size) is not eyetom calls but it might call another functions

that might be a system calls.

* Enample of system calls
write (fd, buff, n)

file beffer descriptor size (momony range)

- => Lysteres call to write to disk.
- > Mesonony range [buff, buff ton -1]
- => Os checles whether fd is a valid file with worke permession.
- → OS chelles if moronory ronge is valid.
- 2) if any check fails thoo it returns -1 and set cures.