

Lecture 37

21 October 2018 01:44

* Quiz 4, Lab quiz 4, End-sem || File systems, Networking (?)
Lab 10, Lab 11 (?)

- CPU scheduler

while (1) {

p = pick next task();

⊗ switch to (p); } ? scheduling policy

Virtualization ?
(as in virtual machines)

Linux (?)

- categorization of schedulers / Scheduling policy.

(i) non-pre-emptive vs. pre-emptive < user space process
Kernel

(ii) work conserving vs. non work-conserving

(iii) real-time vs. I/O centric vs. cpu-centric || Applications
bursty
interactive

(iv) SMP vs. Asymm. MP
| |
scheduler runs on all CPUs | single subset of CPUs
| |
scheduling state is co-ord. & shared | execute scheduler & decide tasks on CPU set.

~ list of scheduling policies.

to choose from RUNNABLE processes

(i) FCFS / FIFO
- first come first serve

(ii) Round-Robin

(iii) Proportionate schedulers.

f wrr - weighted ~~round~~ round robin

- DRR - deficit round robin

(iv) Priority-based schedulers

(v) Lottery scheduling

(vi) CFS | Completely Fair Scheduler - Linux!