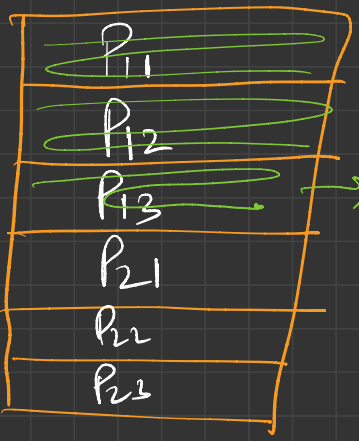
Lec-30

* Thrashing

Situation no. 1

$P_1 \rightarrow$ 3 page

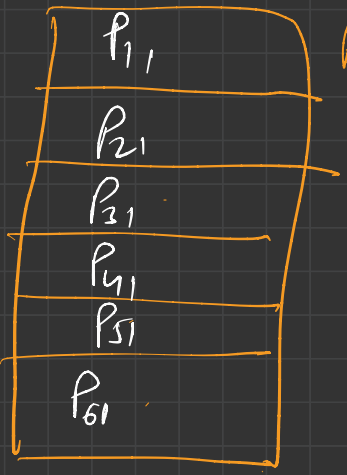
$P_2 \rightarrow$ 3 page



$\rightarrow P_{14} \rightarrow$ Req.

RAM

(2)



$P_1 - P_6 \rightarrow$ each has 1 page

RAM

→ Which has more no. of page faults?

ans → situation 2 → CPU will be more busy servicing page faults.

* Cause of Thrashing

① Initial low CPU utilization .... ↑ing degree of multiprograming

② A Global Pg. replacement algo, replaces pages w/o regard to the process

③ A process may need more frames .... cause faults again

④ Other processes's frames are replaced & they may need those soon.

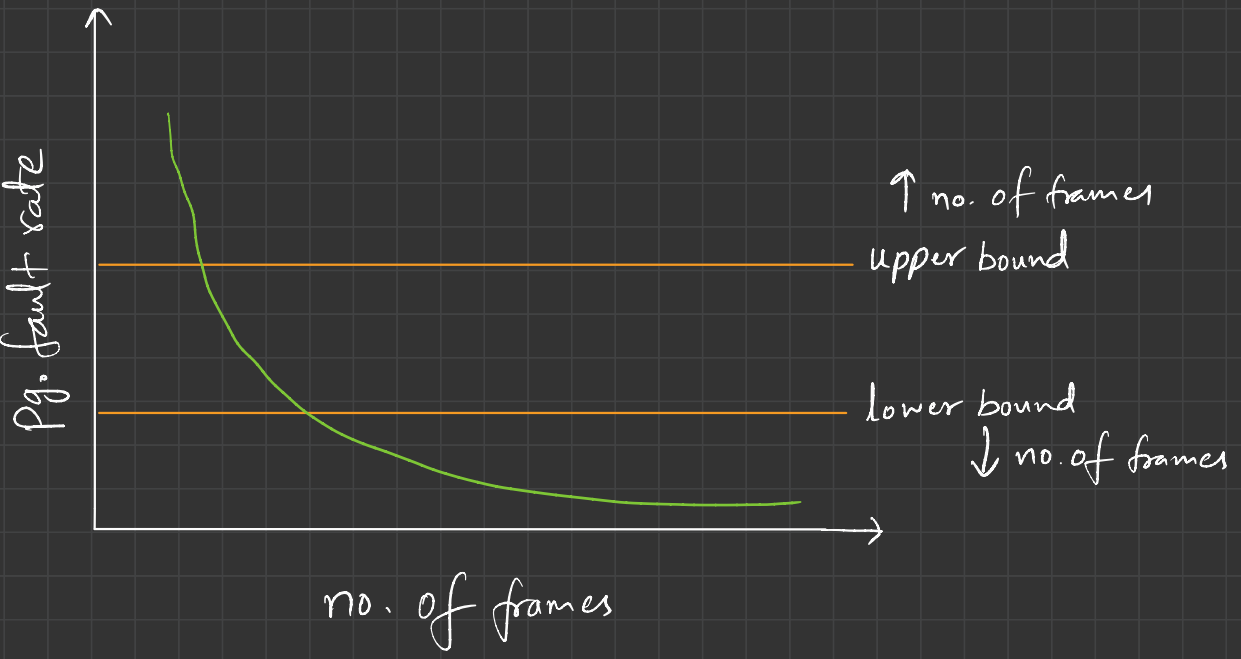
⑤ As a result CPU utilization ↓es.

⑥ CPU scheduler now, may increase CPU utilization by increasing degree of multiprograming

⑦ Ultimately, CPU utilization droops drastically.

* Thrashing → Avoid

* Page fault frequency



* Storage mgmt

⇒ interview ↓

* → ① self - learning

② Files & directories

* → OS course

⇒ Last video