CSE 330: Operating Systems

Class: 23 Date:11/10

Fall 2016

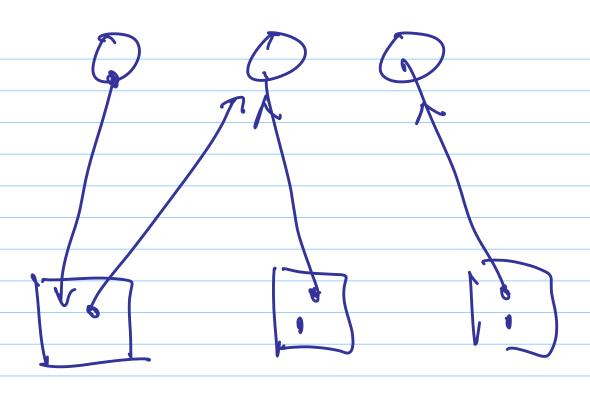
Note Title

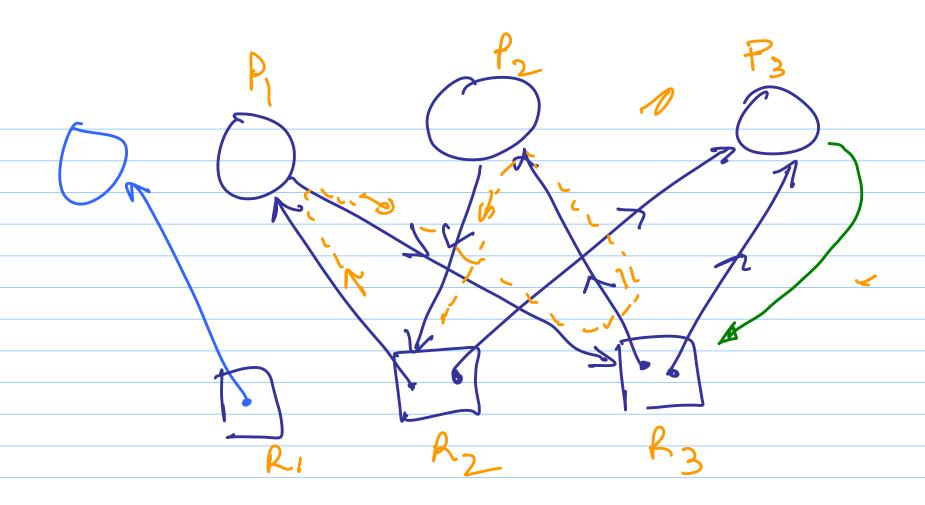
Deadlock delichion

- Surfu instance of each

- when an edge is added check for a cycle ...

Multiple instances of each - REsource Allocation Graph





Deadlock délication

- make a temp copy of the RAG

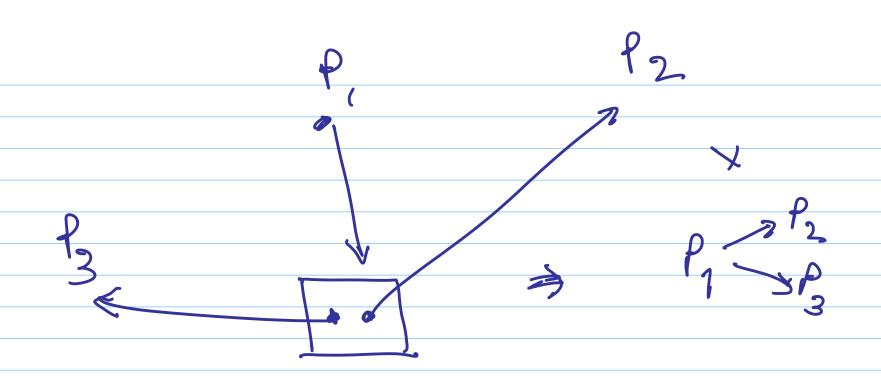
- find a process with no ontoping

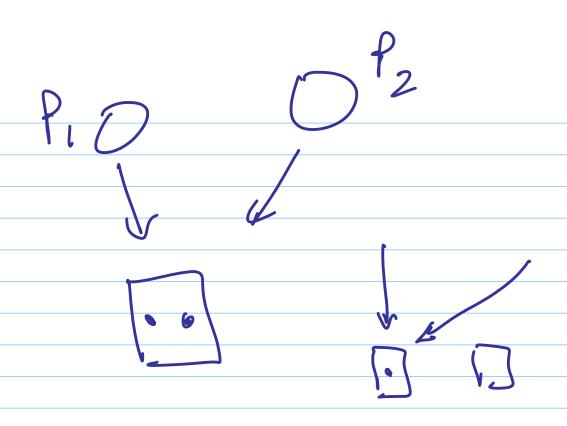
edges -> Pi -> no sad process -> deallock

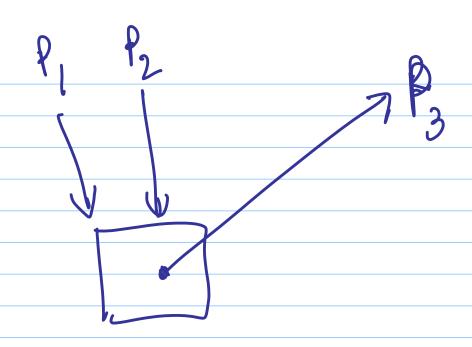
-> delete Pi & free up resources allocated

to Pi

-> Allocate the new resources -> to requesters







IF deadlock

Tind a set of processes

(all have outgoing edges)

These are involved in

the deadlock

Deadlock vecovery

0 +0 +0 Processes

-terminate (somethine?)

The free up resources, restart

- Terminate all processes in cycle - Terminate 1 process - the "last" process that -> the first process that was mvolved.

- last one 2000:

- forst one largest # of resources
held

- one with the smallest ---

Process gots restarted ------ then what? what if it cocates another -> can bend to stanvahion? lode this £3 Is Rollback fl fl, verroue request forf2 Storage devices
- magnetic distes

- Solid state disks

sectors
track

head

platter

(multiple
Surfaces)

SSD

- No moving parts

- Simlar to RAM - but non

votalite

- much faster than magnitude

- WRITE is order of magnitude

Slower than & READ

Write

- erase

- write

- write

- destructive

logical blocks > Conhaller blocks read & write by block #

- how to read/write from
software?
- talk to comboller
via registars & DMA

