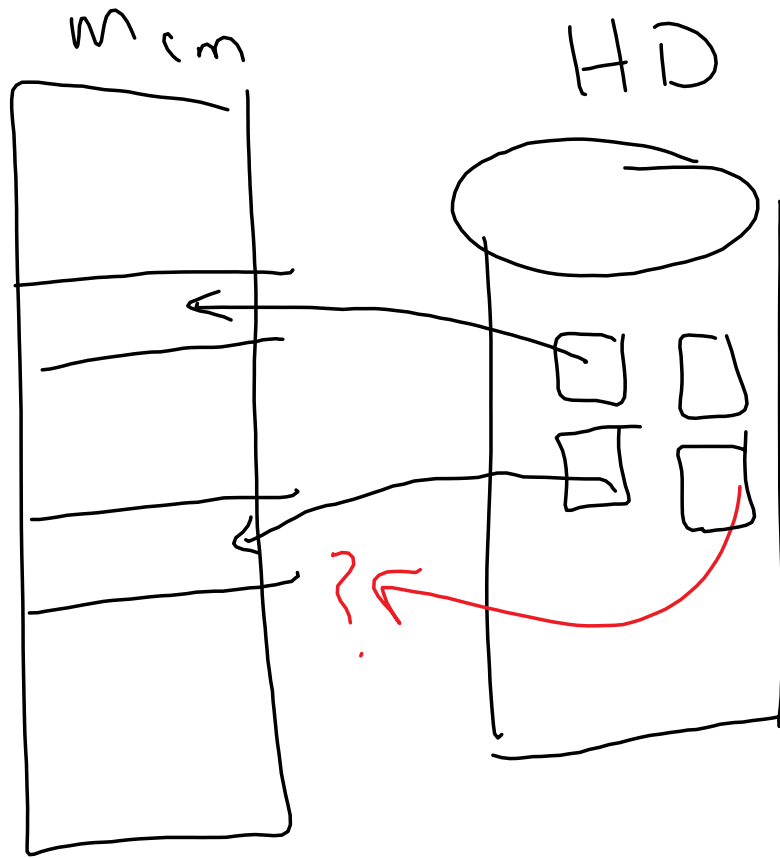


Demand Paging

Tuesday, April 05, 2016
1:10 PM



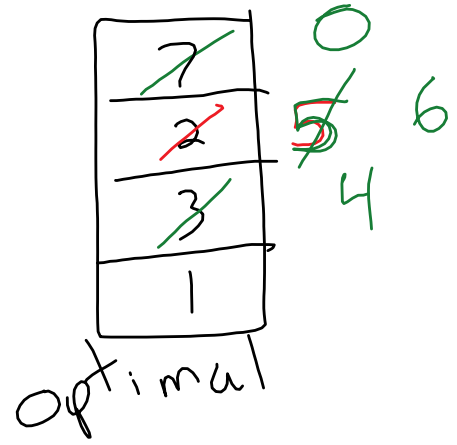
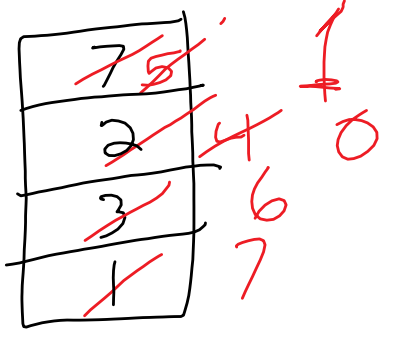
References

7, 2, 3, 1, 2, 5, 3, 4, 6, 7, 7, 1, 0

↓ ↓ ↓ ↓ × × ↓

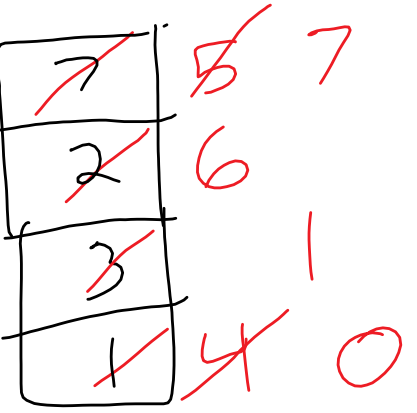
fault#

FIFO



7, 2, 3, 1, 2, 5, 3, 4, 6, 7, 7, 1, 0

Least Recently Used (LRU)

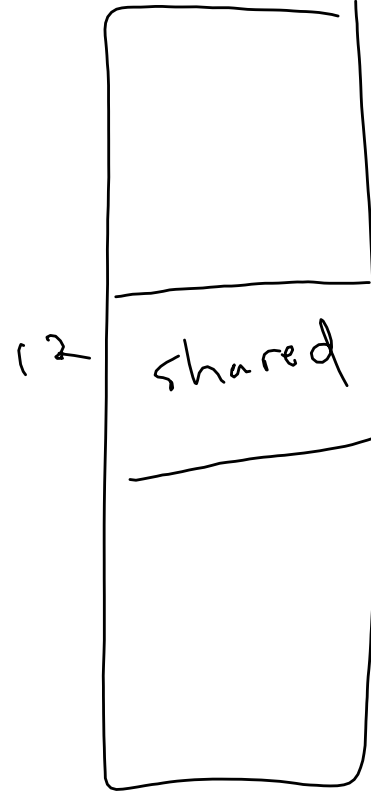
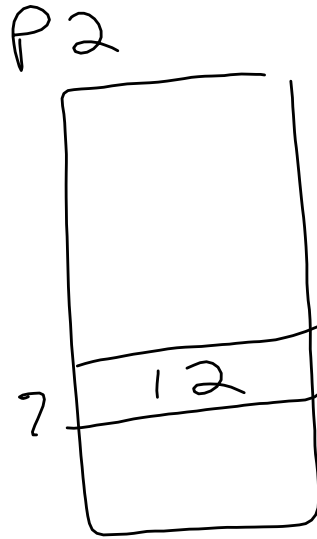
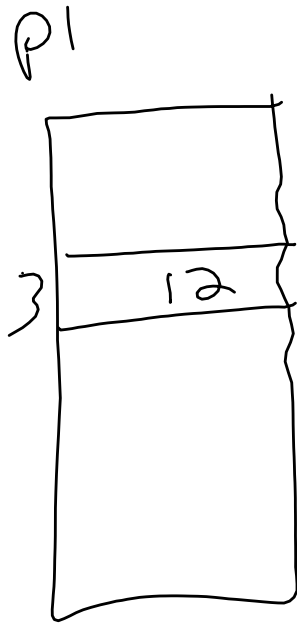


time stamp each page

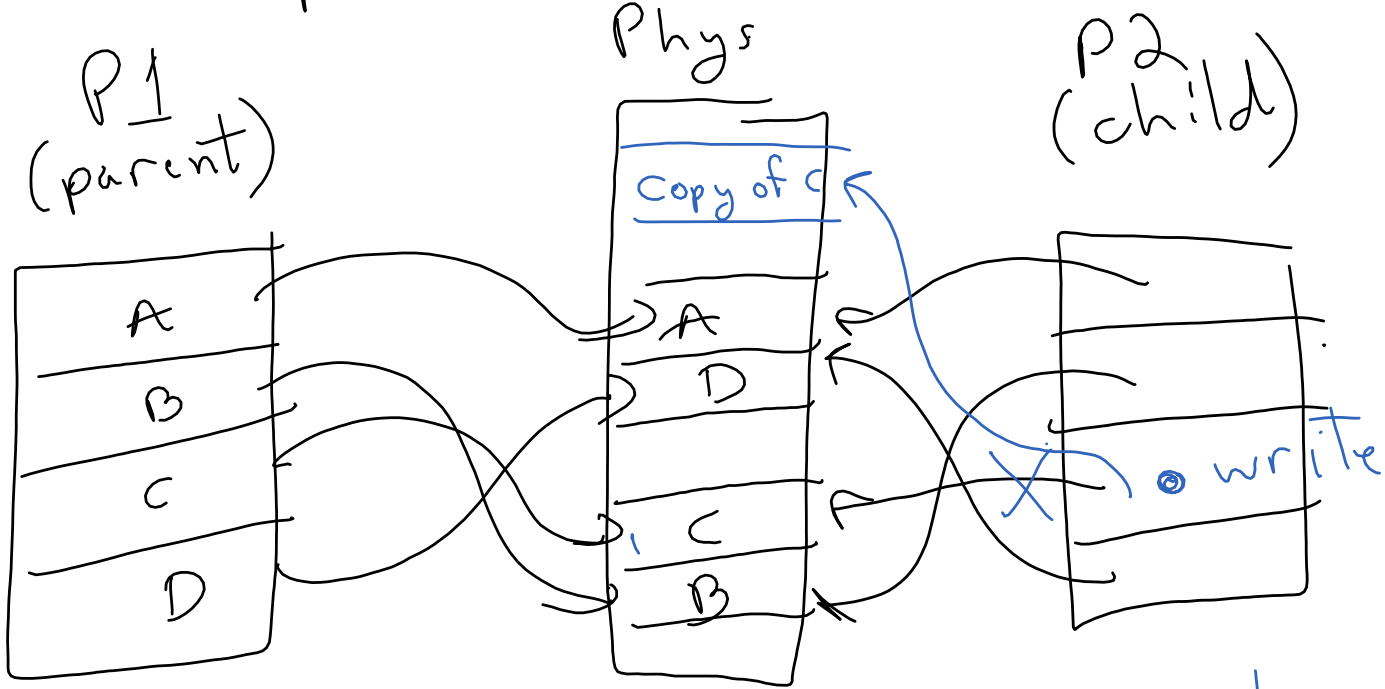
Thrashing:

repeatedly replacing
a set of pages.

large # of processes paging
from HD.



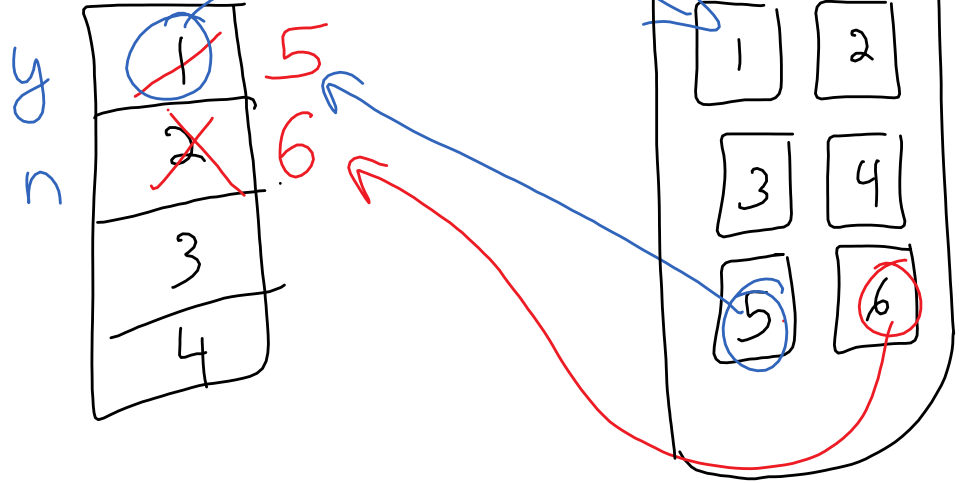
Child processes



Copy-on-write
COW

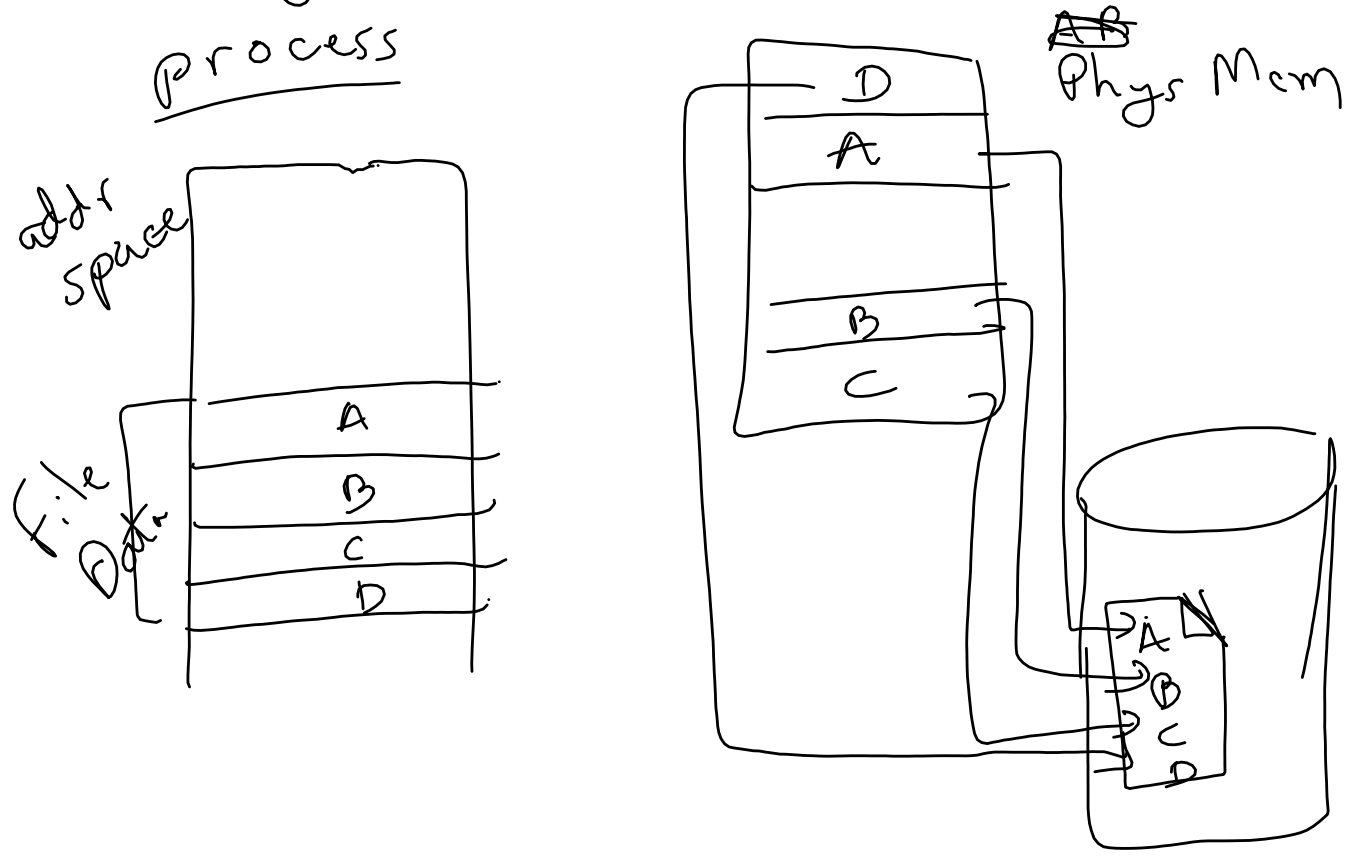
Writes

modified?



- Consider modified bit, when selecting a victim?
- fix pages in memory (lock in place)

Memory Mapped Files / IO



User memory allocation
first fit worst fit
best fit next fit

Kernel memory allocation

- contiguous storage (physical)
- speed

1) Buddy System
allocate in powers of 2

25K
"round"
to 32K

