Virtual Memory: More Policies

CS439: Principles of Computer Systems

Bringing It Together

- Processes are the OS's main abstraction for protection
- A process defines an address space---but this is a virtual/logical address space
  - Virtual address spaces are mapped onto physical address spaces in physical memory
  - The VAS is divided up into equally-sized units called pages
- We manage the VAS with a series of policies around loading and evicting pages

Concept Map Possible Terms

load control
global page replacement
modified bit
best effort operating systems
page size
referenced bit
clock bit
internal fragmentation
enhanced clock
design
dirty bit
locality
pre-paging
policy
daemon
window
working set
local page replacement
clock algorithm
second chance
thrashing
accessed bit
resident bit
clock hand