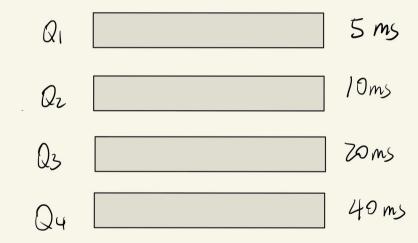


tasks aming around the same time A: 2ms (PV, blacks for 6ms ] x2 B : 30 ms



A runs for 2ms, uns blacke S (Sms), 2ms Brans for 5 ms, blocks. scheduled again, 1 ms, (24 ms to go) wait for 2ms, 10 mg, finishes

Physical Memory Management Virtual Memory:

byte addressable, ~ 200 cydes access lateny DRAM physical memory

& Resource Allocation Problem : How should processes share the DRAM?

-> simple case : don't share, just run one process at a time

-> give the entire physical memory to the process

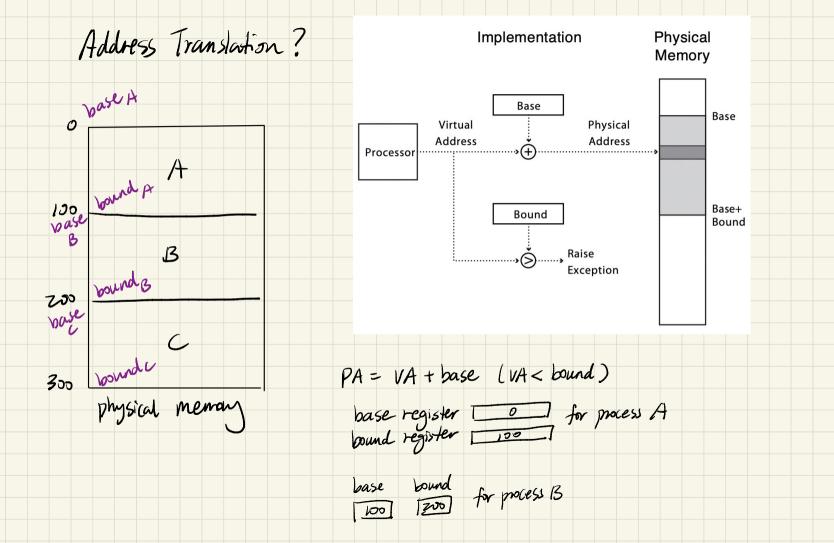
-> no translation needed!

Physical Memory

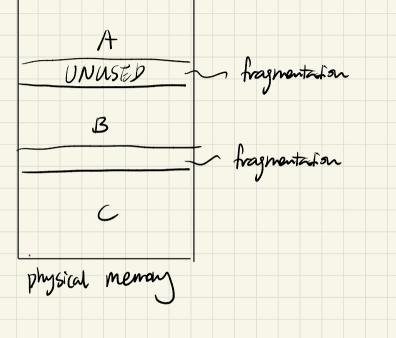
A

That's not how we use the computer ! Amy Proden !

Support Muttiple Processes Let process A, B, C run in disjoint sections of physical memory -> should processes be aware of where it is in physical memory? A -> virtual memory ( "infinite"& private memory ) vs. physical memory · virtual address vs. physical address B Processor's View Aruming Virtual Memory Virtual physical memory Address Processor mapped to A's location in playsial menory.



Still lots of problems



-> voriable sized memory allocation leade to fragmentation -> fragrented section night be too Small to fit new process (pour utilization)

-> hard to grow

-> # of processes dependent on how large their memory requirements

Want to Solve:

-> poor memory whili zastion

-> conternal fragmentation

-> # of processes in DRAM

> flexible growth

A process don't need all of its menning at once, load as

it uses each page

A divide physical memory into (pager) fixed Sized Chunks, allocate & translate in unit on a page level