

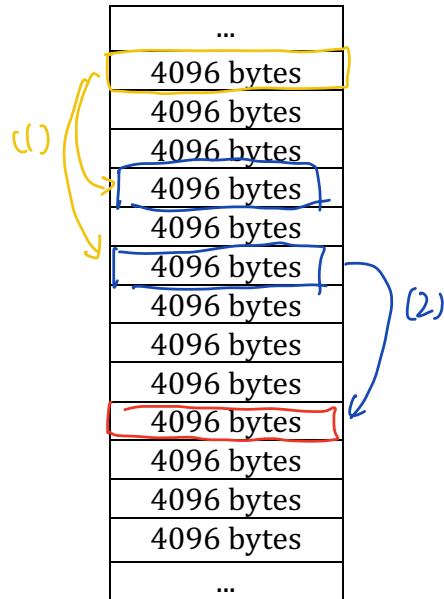


How much memory does a 2 level page table require (assume data segment requirement requires 2 pages and the stack requires 2 pages; assume each entry in the directory contains 1024 page entries and each entry is 4 bytes)

*page num*  
 20 bits →  $10^{(1)}$   $2^{10}$  entries, each 4B →  $2^{12}$  B  
 12 bits →  $10^{(2)}$   
*page offset*

Why might a page be missing in memory? Where can it be found?

Argv,, Env
Stack
~
~
Heap
Heap
Heap
Globals
Program
Program



*On demand paging:*  
 "paste" from disk to RAM we needed

What is the dirty bit? Why is it useful?

What else can we store about each page?

Can two processes shared the same piece of RAM?  
 Why is this useful?

Practice Interview Questions:  
 What is IPC? Give some examples and explain how they work!

Amdahl's law.  
 My problem takes 100 seconds to calculate an answer? 25 seconds of that is non-||izable.  
 How can I make it run twice as fast ?