CS 326-01 Process Shared Memory Project04 due Mon May 8th 11:59 pm

Kernel Free Proges Kalloc. c Page Directies Process Shured Memory

Kernel Free Pages

128 MB how many pages?

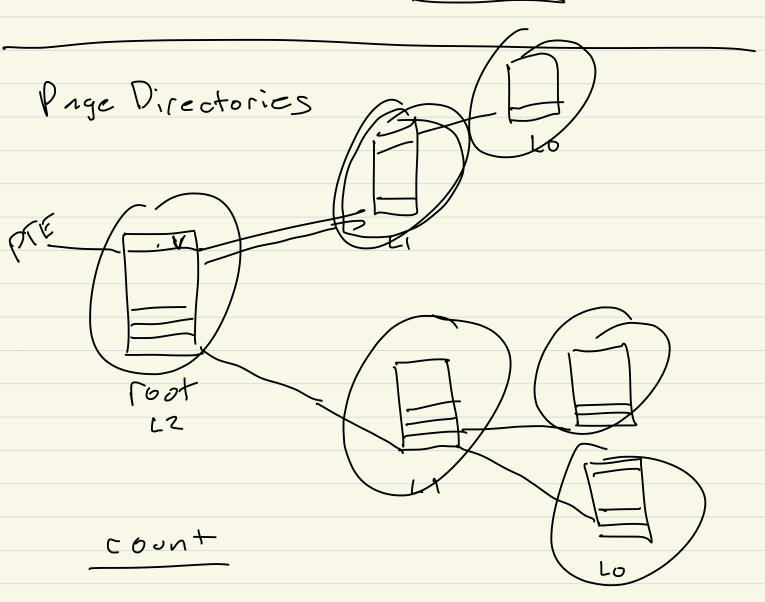
1 page = 4KB = 2¹² = 4x2¹⁰ - 4096

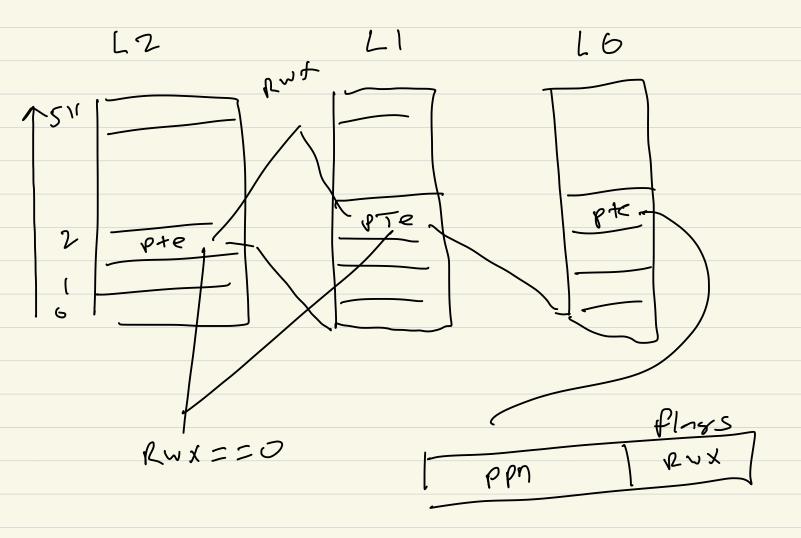
 $2^{\circ} = 1 \text{ fB}$ $2^{\circ} = 1 \text{ mB}$ $2^{7} \times 2^{\circ} = 2^{7}$

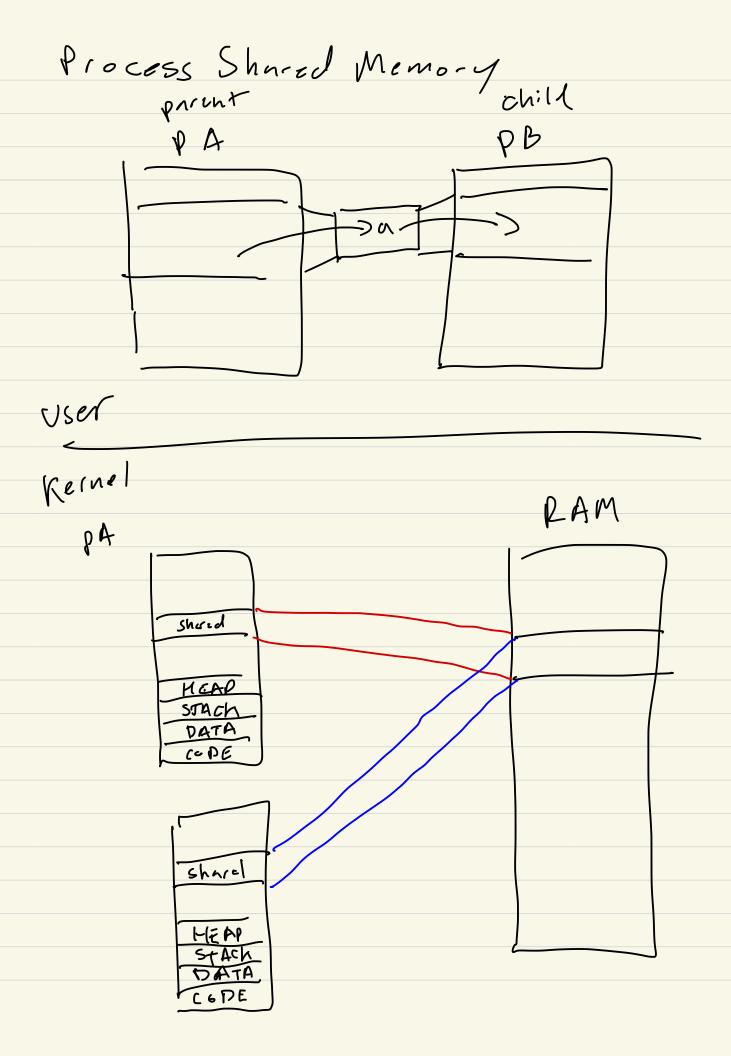
2²⁷/2¹² = 2¹⁵ = [32768] pases in 128 MB

After Startup

32769-32563 = 215 pages







Things to consider

is call
Smen (add size)
Chich that add and sore one multiple of work
Smer Ladde, size) () Chich that adde and size are multiplier of moge () allocate pages with Kelloc()
3) chech projetuble for conflicts
(4) mappises to addi in processis
przestable
Concept: a showed memory region will
Concept: a showed memory region will Nave an owner
In Doc struct

Size owner-pid

fork()

then have child inherit the
region

man some shared virtuel

address region in child's

page table.

Free procl)

if proc his shared mem

if proc is owner

unmap and deallocate page

else

un pap