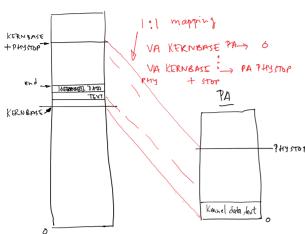
1) Mapping of address space of each process



notes

- 0 ; KERNBASE is mable VA range for user processes.

- KEKNBASE: KEKBASE 4 PHYSTOP is VA vange used by knul for Kundtext, data and to manage PA allocations to user trocesses.

- All free pages instally part If a free list, which is referred using VA in Kernel space.

the Kernel refer to all its 1:1 mapped pages using virtual address for action related to allocations, setting up page tables, updating free list etc. following are sample functions (which may also use the VZP & P2V macros)

check interesting - Kalloc returns one free page. returns VA from Kunel VA mappings. usage of Strud run to maintain free list.

Kfree takes a VA in Kernel space A adds to free list

ga ow proc - grow process memory uses allocum alloc uvm z allocates a page e mappages adds to page table walkpgdir - update page table with new VA to PA mappings

- walk pgdir page table to find mapping of a VA to return PTE. 1 check last parameter of 0/1 for different actions.

with memory related functions, 8 files of TV 6 vm.c Kalloc.c proc.c memlayout.h mmu,h

macros of interest (and # defines)

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Quick Notes Page 1

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V2P P2V

PGROUNDUP PDX

PGROUNDDOWN

PTE_P PGSIZE