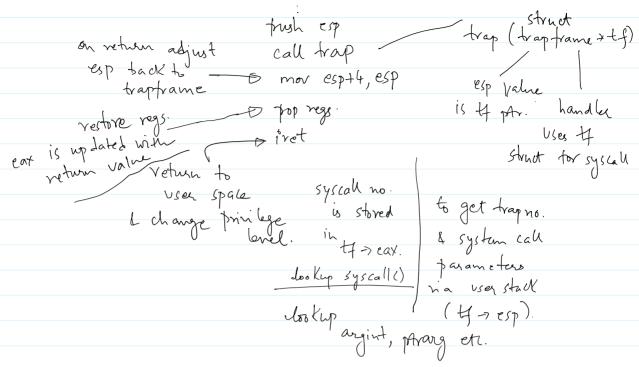


in altraps (trap handler)

trap



context smitch mechanism.

a process will not voluntarily give up the CPU, usually. or CPU is suitched to another process by the scheduler on some interrupt processing (interrupts, system etc.)

the calls that its are important are

Sched and switch.

to initiate the to initiate context switch

schedular between processes / contexts

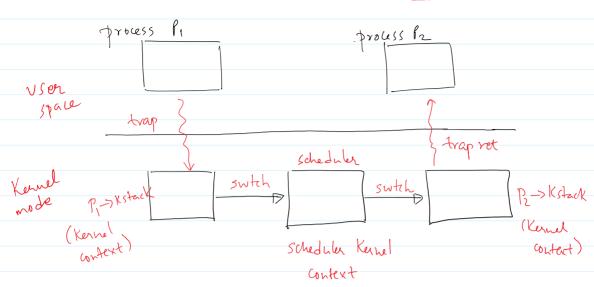
- Sched is called in exit, sleep, yield

- sched in tun calls switch.

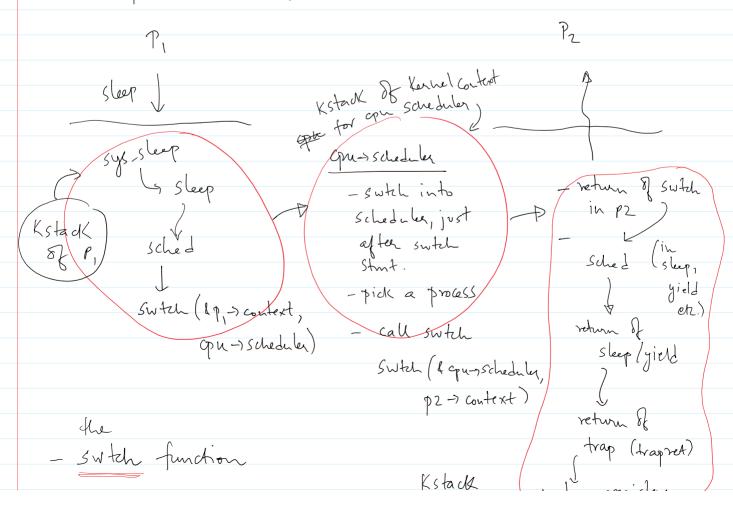
- additionally, the gu schedule cally swtch.

- with xVb, process pre emption is a two step process. stepl: process is switched out & Kernel scheduler (with different Kennel context) is switched in.

stop? Kernel schedner picks a process and sinthes to Kernel context of the new process.



assume a process p calls the sleep system call, and its state is updated in the sleep function and sched is called a two-step after sched, the context switch results in different process context for execution.



- swtch function (1) Swtch (A) - context, qu -> scheduler)	Kstack restore registers Restore registers and return to user space.
- both arguments orelated to add	u 35 es
of Kennel Stack.	
- &p-> context - address & 6	sutext variable in PCB
- both arguments shelated to adde of Kernel Stack. - & p -> context - address of co Gpu -> Scheduler - value of s top 8	stack pointer of the Scheduler
- how does switch switch?	
sw tu	ot (non 1 h)
	(4
mov 4(esp), eax	store 1st argument in eax
mov 8(esp), edx	- store 2hd argument (at espt 8) in eax.
pude registers	
this is movesp, (% cax) -	Store current esp in address
Switch mov edx, esp	Stored in eax.
1 27 200	i.e: 7 -> context = esp
happens. pop segisters	- Switch Kstack (to scheduler)
iret	Pop registers on hew stack
	top registers on hew stack and return from switch
	(in hew context).
	(in real concert).