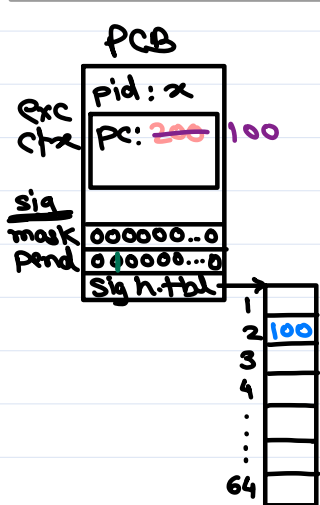
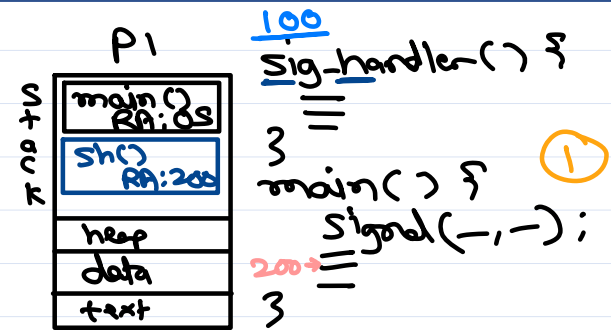




Embedded Operating Systems

Trainer: Nilesh Ghule





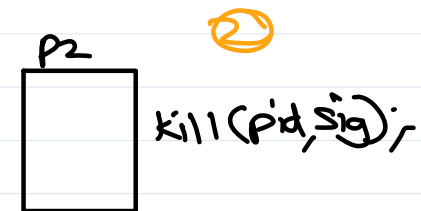
- ③ intr-handler:
- ① Save exec ctr.
 - ② get ISR addr
 - ③ call ISR
 - ④ pid = scheduler();
 - ⑤ sig-delivery(pid);
 - ⑥ restore exec ctr.
dispatcher(pid).

sys-signal(sig, hand)

- ① get current process pcb.
- ② write hand fn addr in its sig handler tbl slot corresponding to sig num.

sig-delivery(pid):

- ① in pcb of given process check pending but non-masked signals.
- ② for each such signal:
 - a) create artificial stack frame on user stack for that signal's handler.
 - b) the return addr of the stack frame will be the addr from exec ctr (when process should resume after handler completion).
 - c) change PC in exec ctr of the process to the signal handler addr (obtained from sig handler table).
 - d) clear sig pending bit.



sys-kill(pid, sig):

- ① get pcb of the process from process list whose pid is given.
- ② Set the bit corresponding to signal number in sig pending field of that pcb.





Thank you!

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