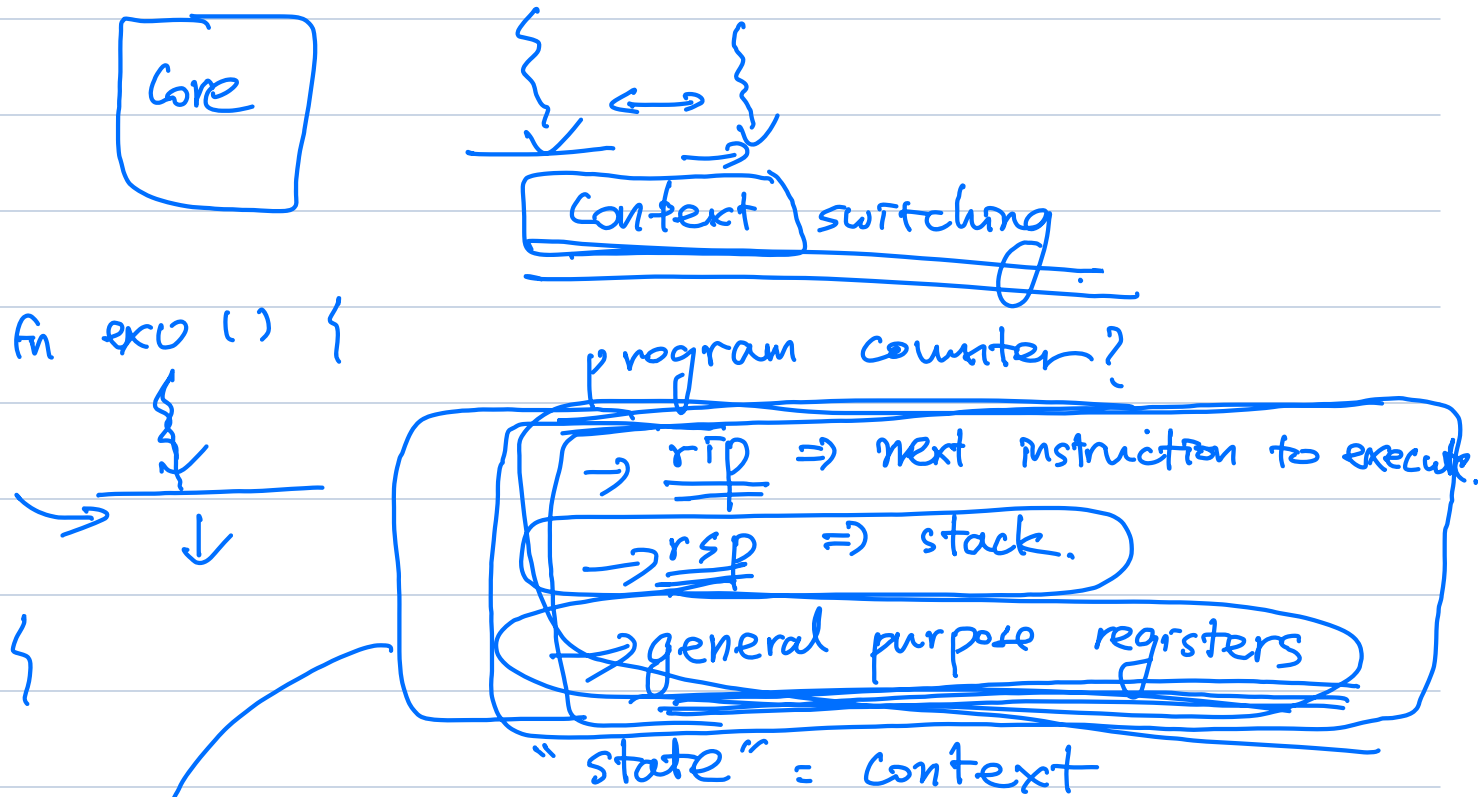
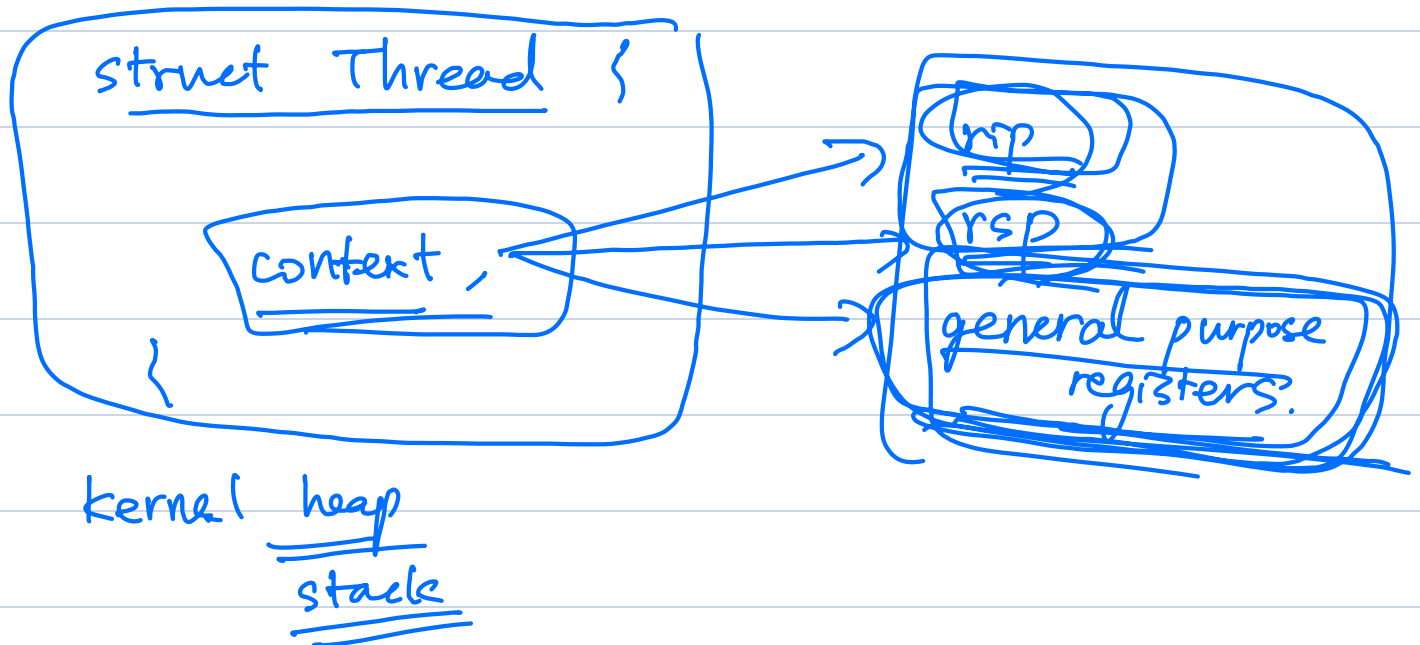


* Context switching.



save these in memory so that we can retrieve them later & resume the execution.



* Context switching by an interrupt.



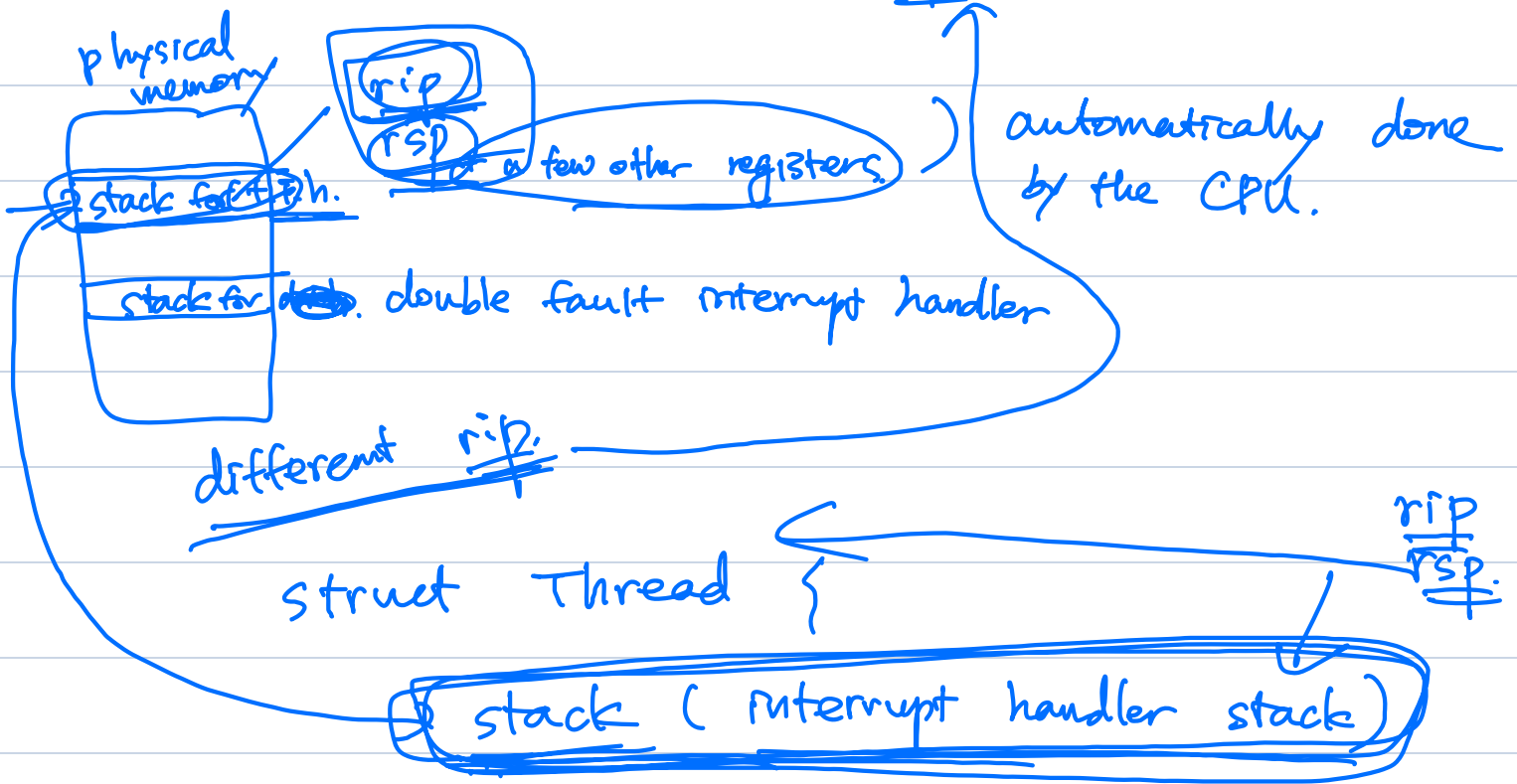
timer interrupt handler. \swarrow stack for the handler
 (this is where rip, rsp, etc. get stored.)
 \Rightarrow save the context (state)

\Rightarrow Pick the next thread to run.
 (scheduling)

\Rightarrow restore the state for the next thread.

\Downarrow (modify IDT to provide new stack space for the new thread)
 signal interrupt handling is over.

\Downarrow
 CPU runs from rip



rip, rsp, etc. + general purpose registers.

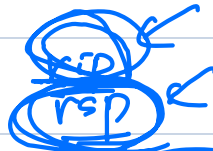
CPU stores

what ~~we~~ store.
 software (kernel)

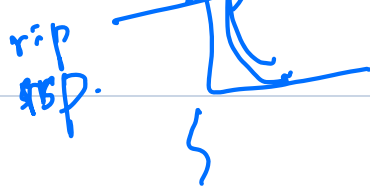
struct Thread {

4096

field:

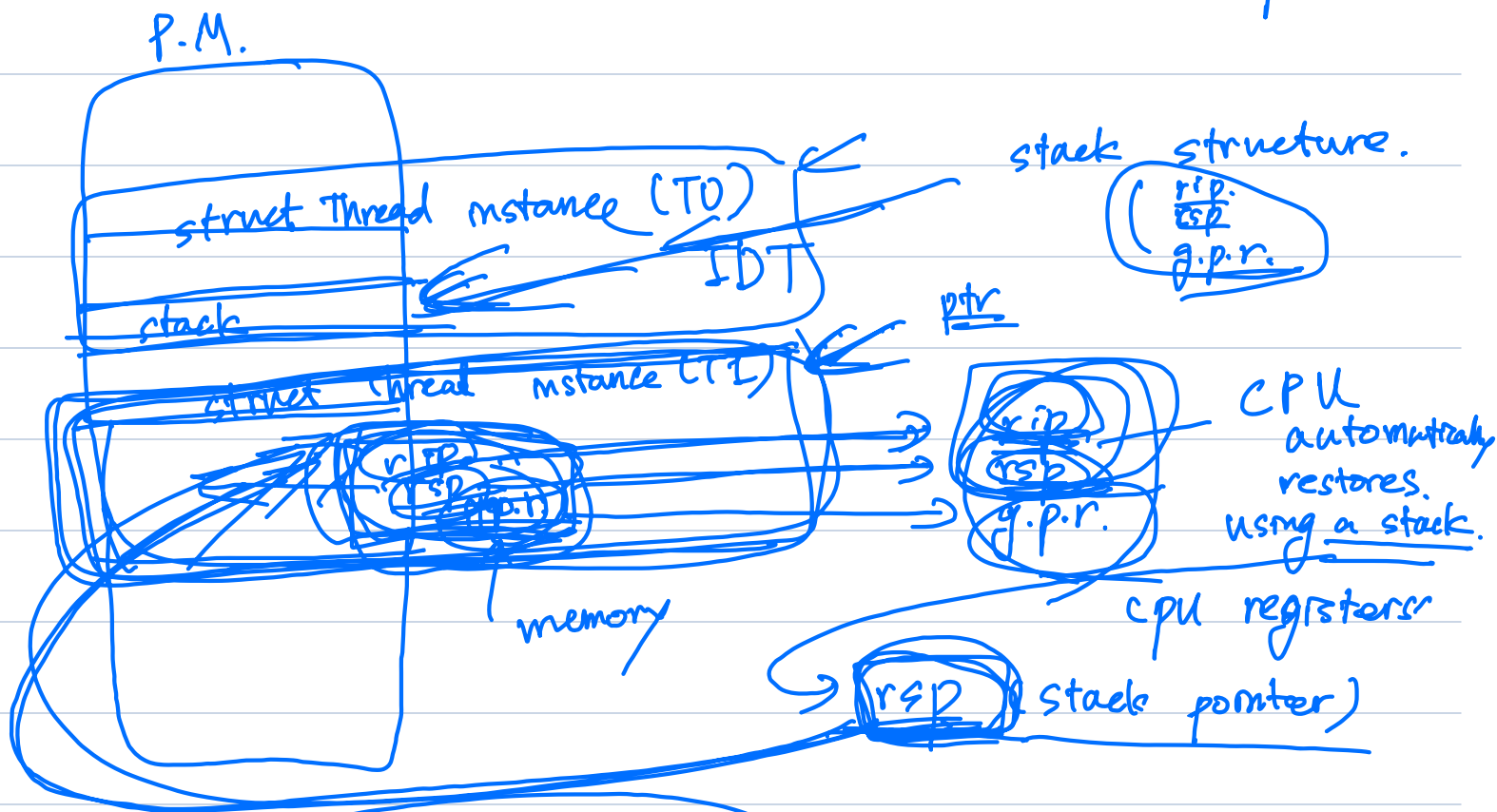


CPU stores automatically
 using the handler's



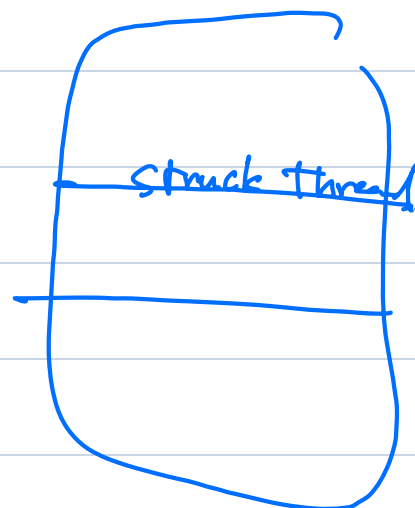
g.p.r. stack space.
 provide stack space ~~to it~~ for the interrupt handler.

IDT \Rightarrow provide a new stack space



```
struct Thread {
    :
    stack
    :
}
```

Box::Thread::new()



13.8.72

