

Lecture 10

CS695

A2 ~ assignment #2

hypercall invocations

Simple-kvm.c

vmx process!

guest.c

guest 32.0 guest 32.ing

guest32.ing.0

guest 64 ing.0

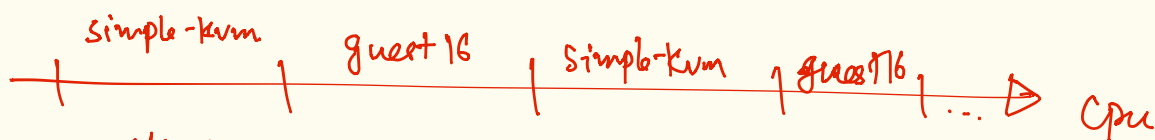
guest 16.5 guest 16.0

payload.0

guest 16.ing.end

labels

guest 16
guest 32
guest 64

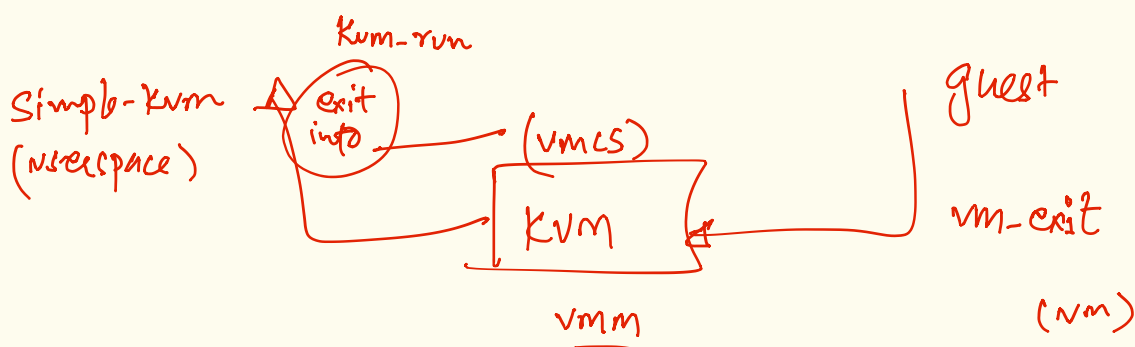
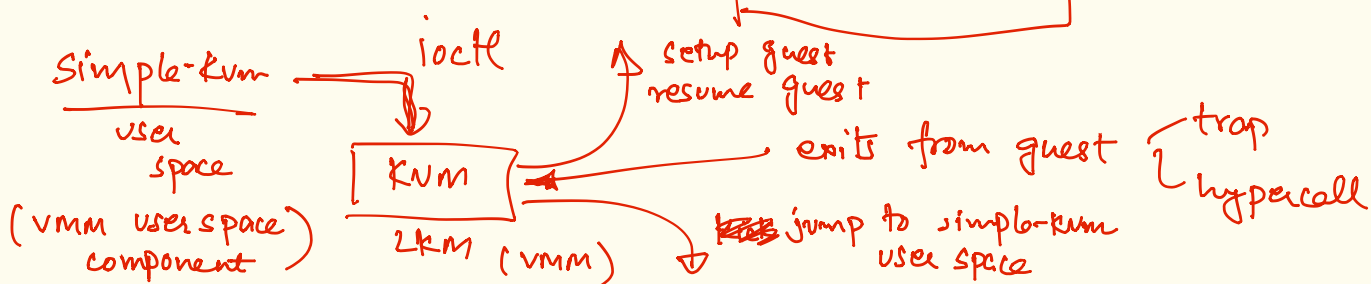
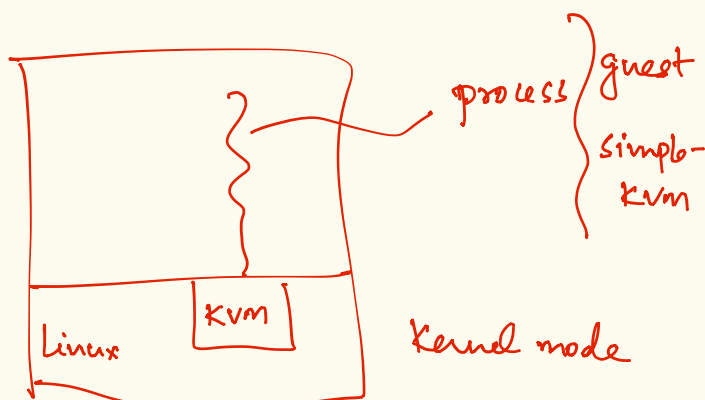


(*)

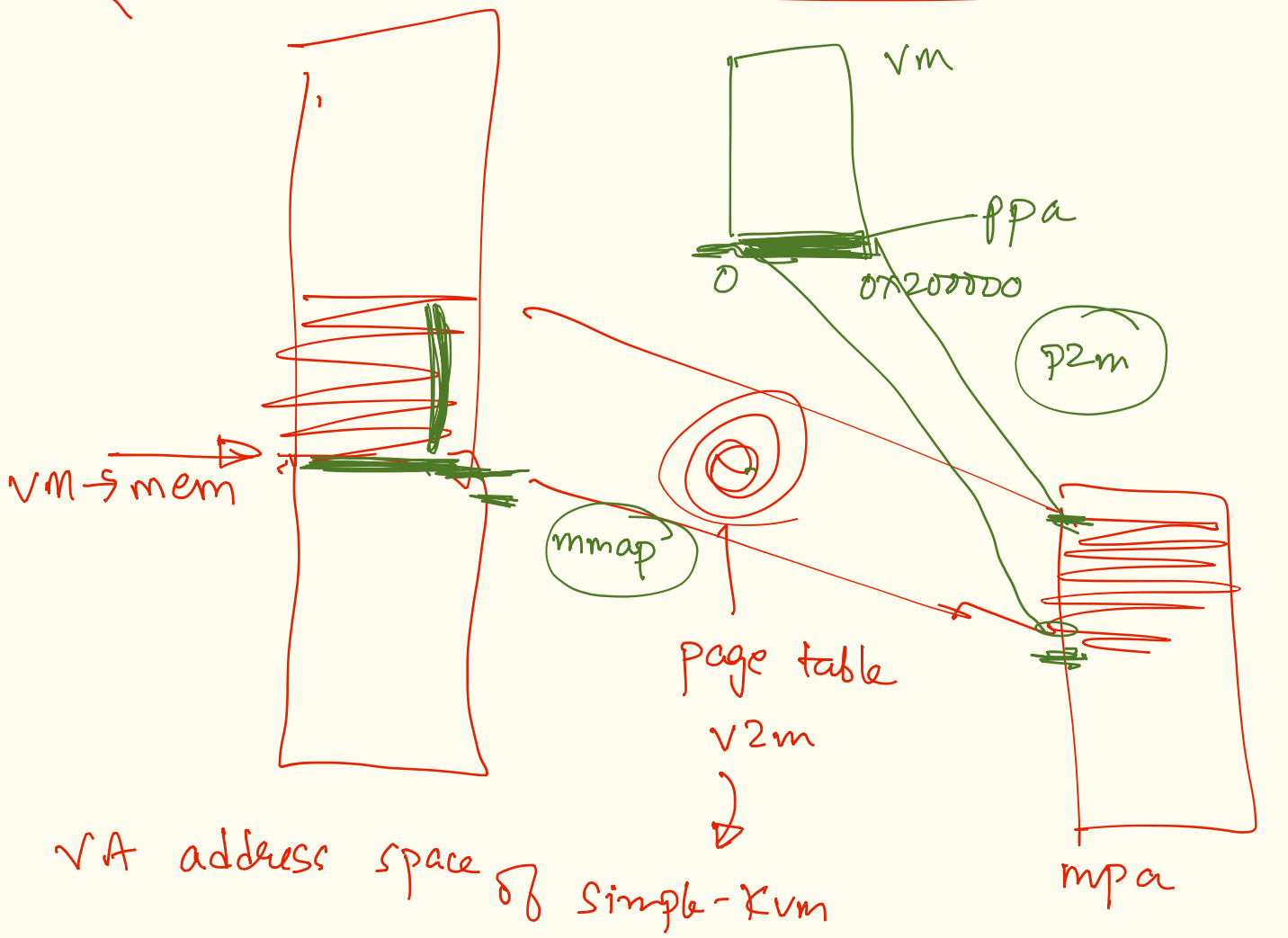
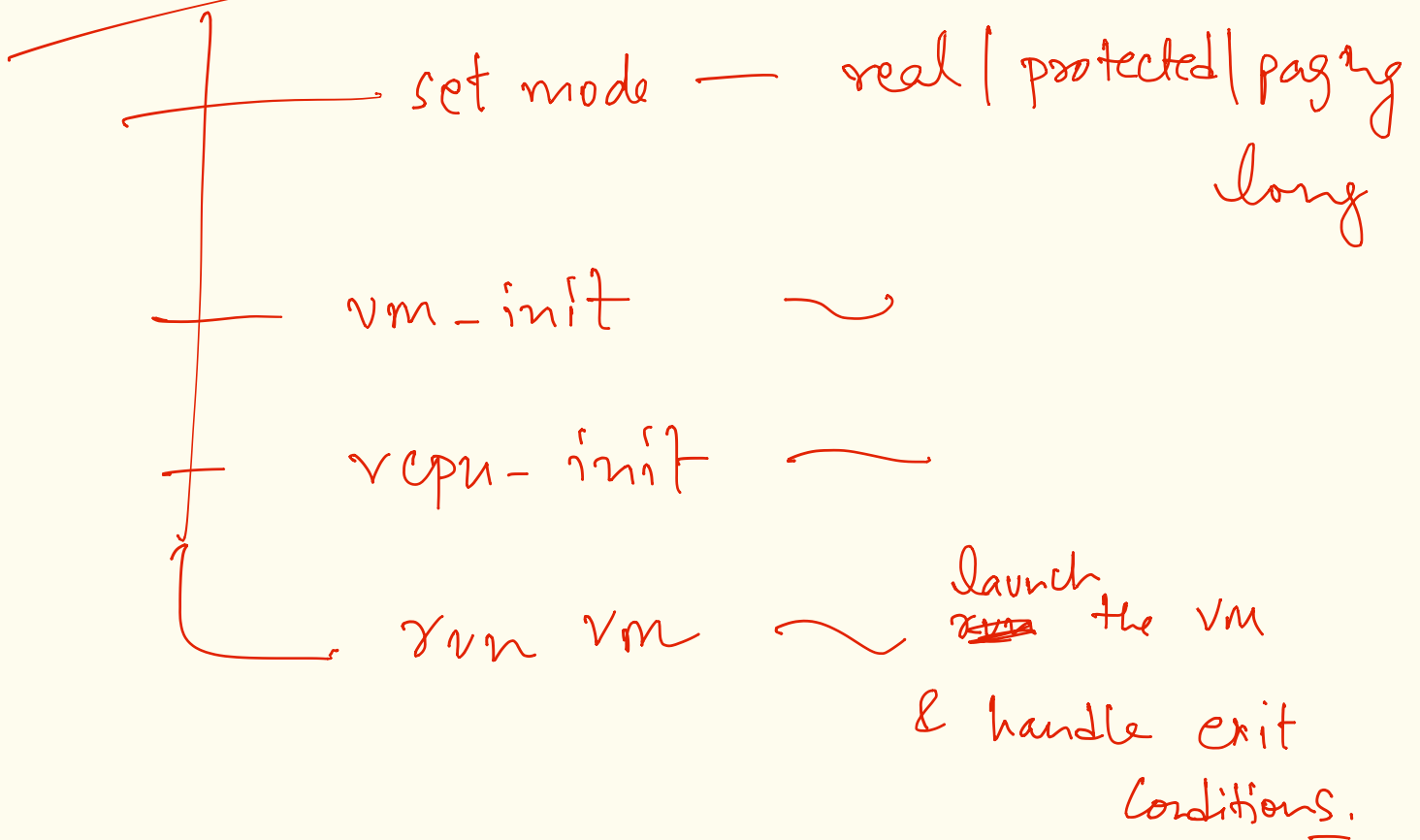
root-mode vmx

vmx user-space

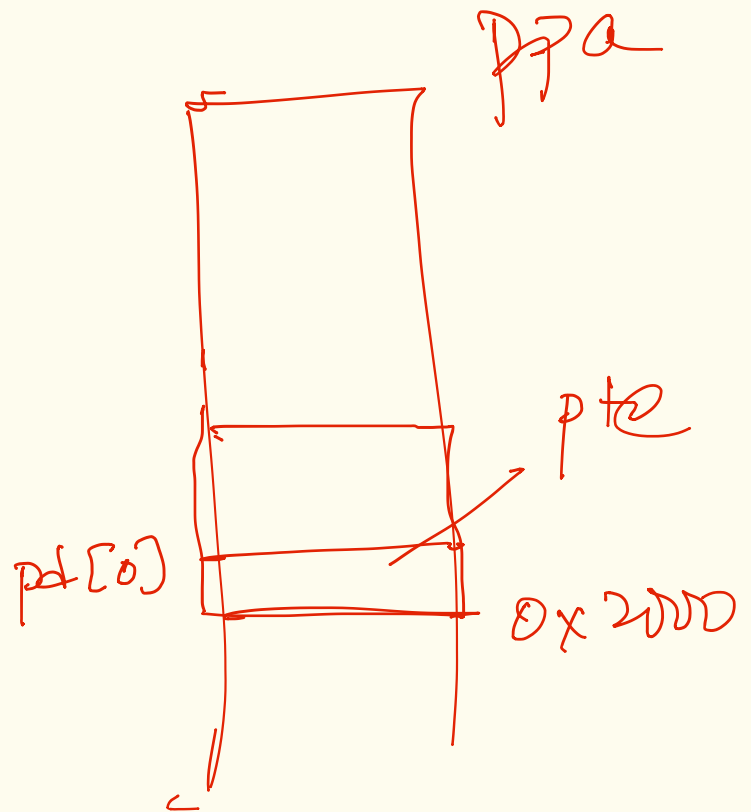
non-root



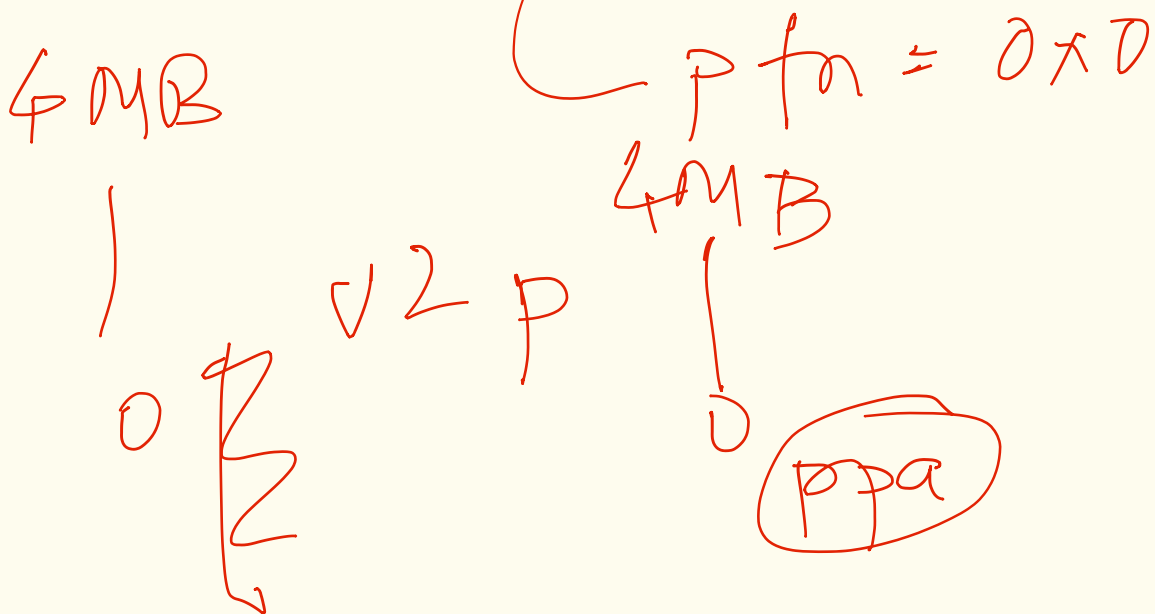
Simple-xvm



quest:



$pte = 0x0000$ pte flags
4 MB page



Lecture 11

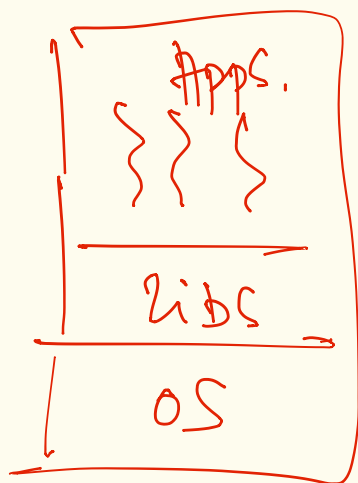
CS695

[mem mgmt] ^{2004/5}
↑
2 papers.

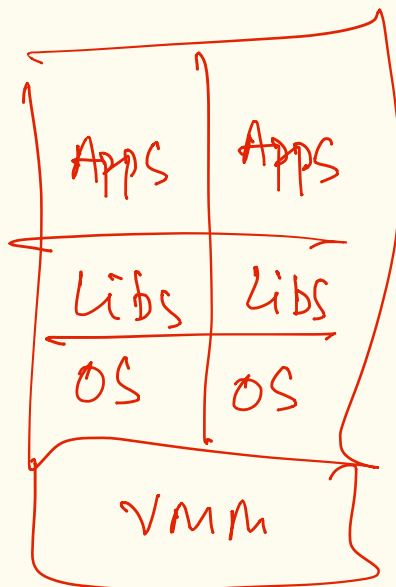
[live migration]

(new) primitives/mechanisms due to VMs.

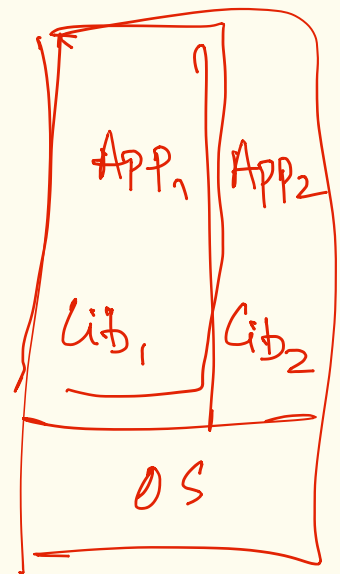
containers



Native



VM



Container

container world -

dependencies in
terms libraries, object files,
utilities.

- isolation & resource control (?)

4 main building blocks of containers,

(i) namespaces

(ii) cgroups

(iii) chroot

(iv) capabilities.