

Dynamic mappings) over provisioning and Can start many more processes

t over-provisioning =) better resource willisation
Low free/unused memory

- Flexibility => complex address D translation

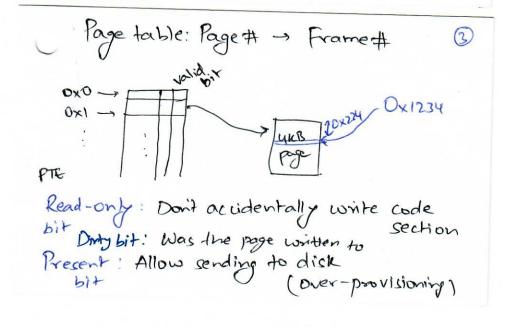
Virtual
address

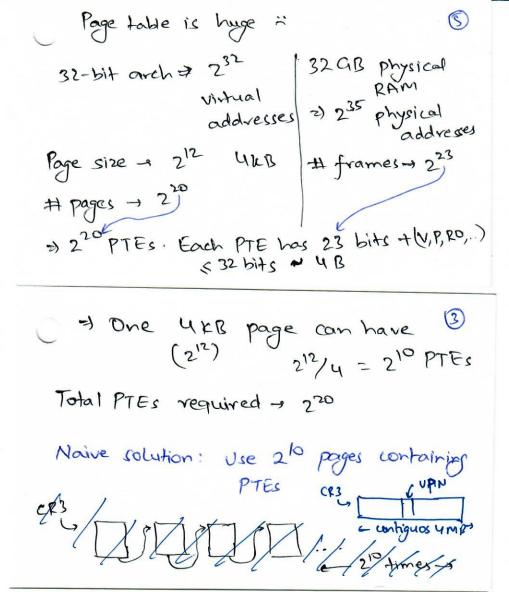
Ox1234 -> ?? Physical
address

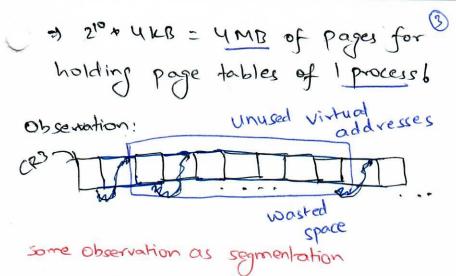
Page

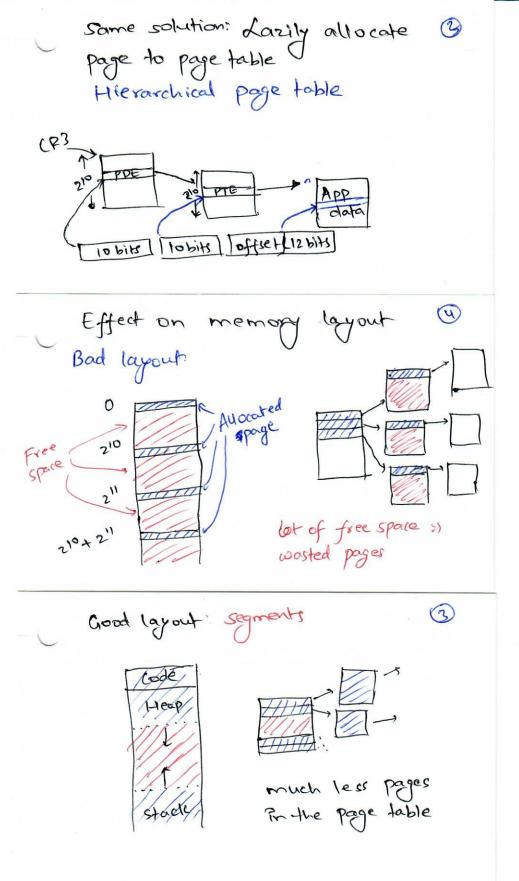
Ox1 -> ?? Frame / Physical
rumber

rumber









Problem: Every Load/Store needs 3 @
memory accesses 2 page table + lactual
for 64 bit architectures
3 -> 6

Soln: TLB remember page # + frame #
mapping

Ox1234 TB? Thiss
Page table?

Virtual Yes Page fault,
address invalid? fault
Segfault Os Page fault
Protected bits

(read only excute only) bandler
(read only excute only) Landler
Upakte
Strong page from
Page table,
Page fault
Page fault
Australia Valid, not present
Page table,
Page table,
Page fault
Page

Memory virtualization paging us the Memory virtualization static segmentation of the static segmentation of the static segmentation (virtual) address space of Transparently move pages to dish of the Dverprovisioning 2) better resource whilisation of the station of the station