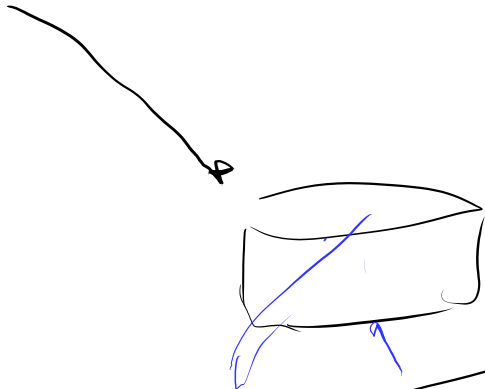


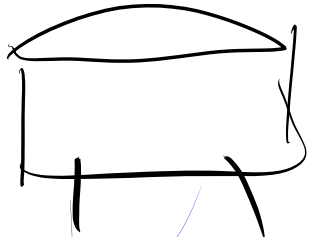
BEWARE!

FINITE
CAPACITY
MINDS MAY
OVERFLOW

iSCSI

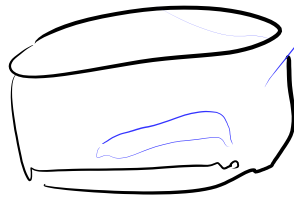


ZFS



DNS

DHCP



rsync

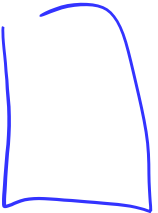


memdata

num
perm
direct
mem

void mem

data



KYTOG

GPA

NOT

A+

|

C

C-

|

D-

F

—

—

—

—

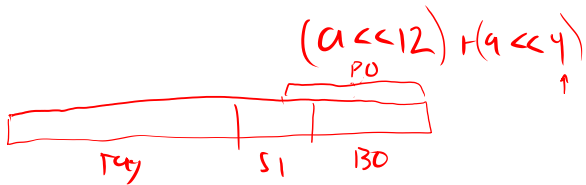
—

CR — Prereq — OS

GR — credit

NC

Understand exploits like Meltdown



$a \cdot 2^{SS}$
 $\times 4096$
 $2SS$

$r_{bx} \rightarrow$ array of 2^{20} Byte



- ✓ Xorg
- exception ✓ movq
- ✗ shl
- ✗ movq

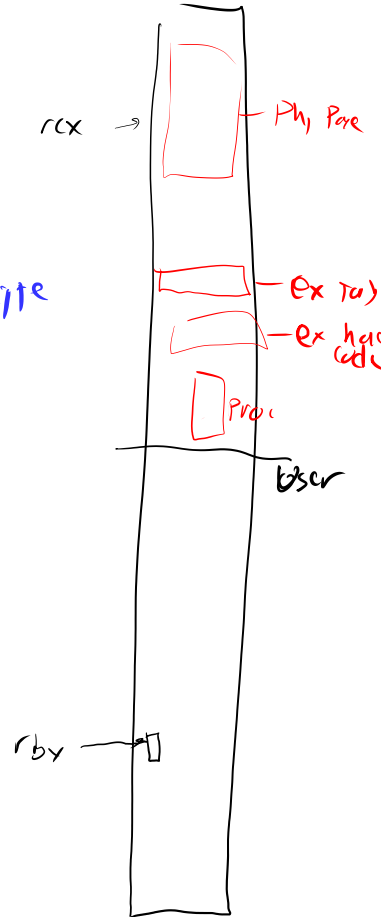
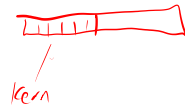
$\%rax, \%rax$

$(\%rcx), \%al$ read 1 byte

$\$0xC, \%rax$ Page

$(\%rbx, \%rax), \%rdx$

↑ base ↑ index
 ↓ cache



OUT-of-order

