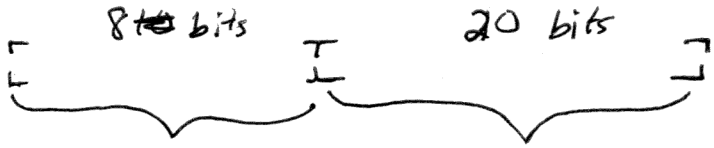
OSTEP HW 18 #3

Addr space 256M 2^{28} 28 bits needed total
Page size 1M 2^{20} 20 bits needed for offset



256 frames in ~~address spa~~ virtual address space.

30 28 24 20 16 12 8 4
30 8 b 24 d

0 0 1 1 0 0 0 0
27 28

48 ← VPN * (valid)

offset

PFN: 0x 0 0 0 0 0 1 f 6 8 b 2 4 d
Each PF is 1M

42351e6

0 1 0 0 0 0 1 0

VPN: 66 INVALID

2f cb67b

0 0 1 0 1 1 1 1

offset

VPN: 47 (valid)

PFN: 0x 0 0 0 0 0 0 a 9 eb 67b

b4 69 77d

1 0 1 1 ~~00~~ 0100

VPN: 180 INVALID

dbcceb4

1 1 0 1 1 0 1 1

offset

VPN: 219 (valid)

PFN: 0x 0 0 0 0 1 f 2 c c e b 4