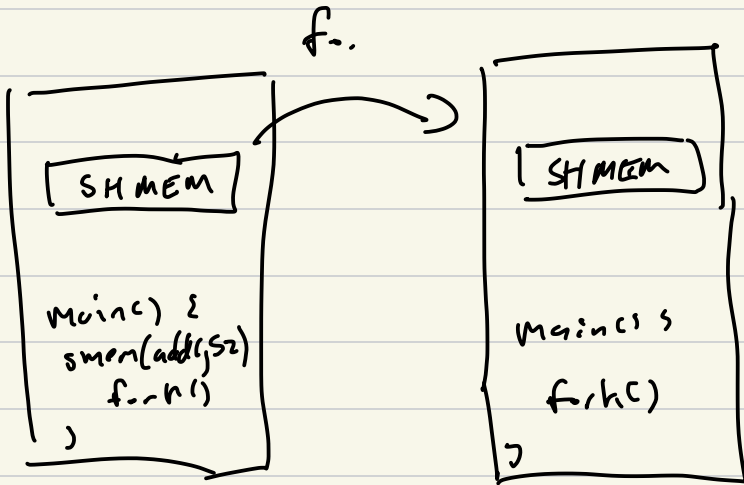


CS631-02 x86 Page Tables

Project 08 shared memory



U

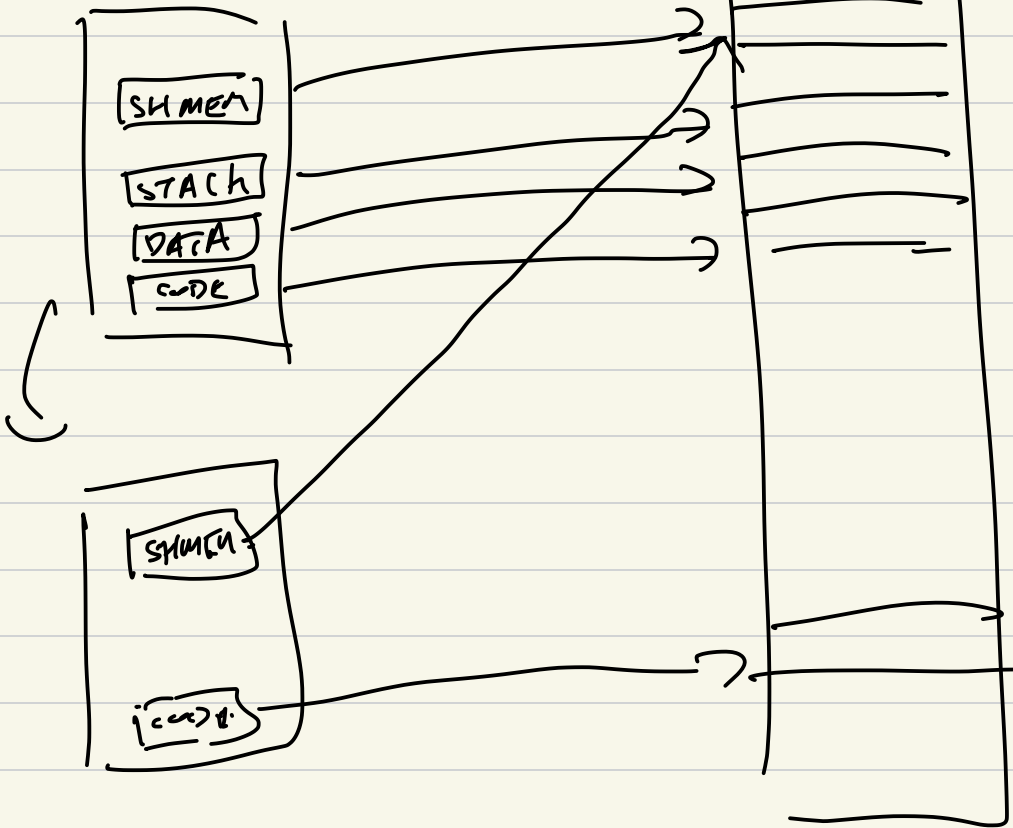
K

proc

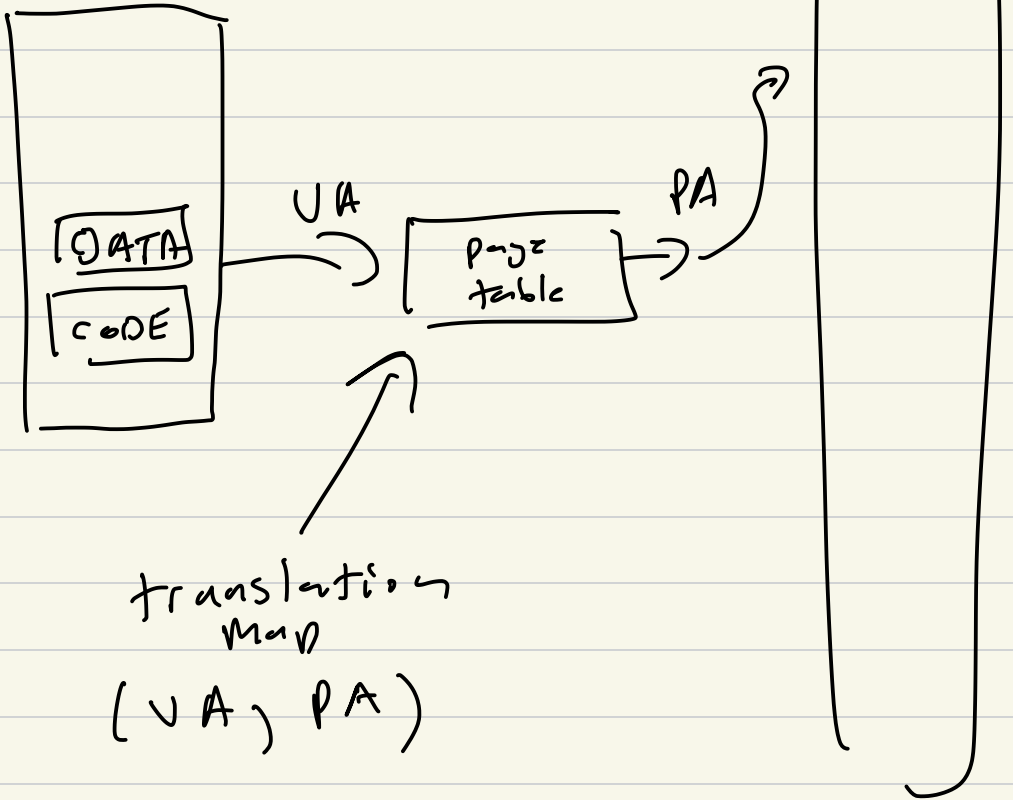
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RAM

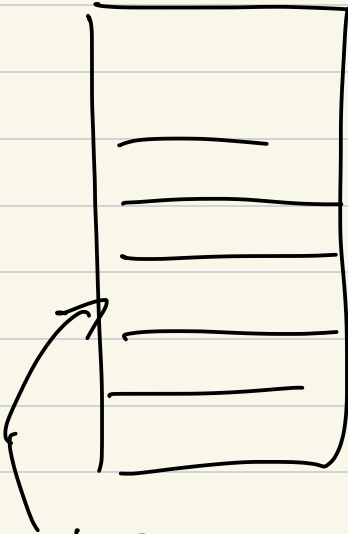
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Page Tables

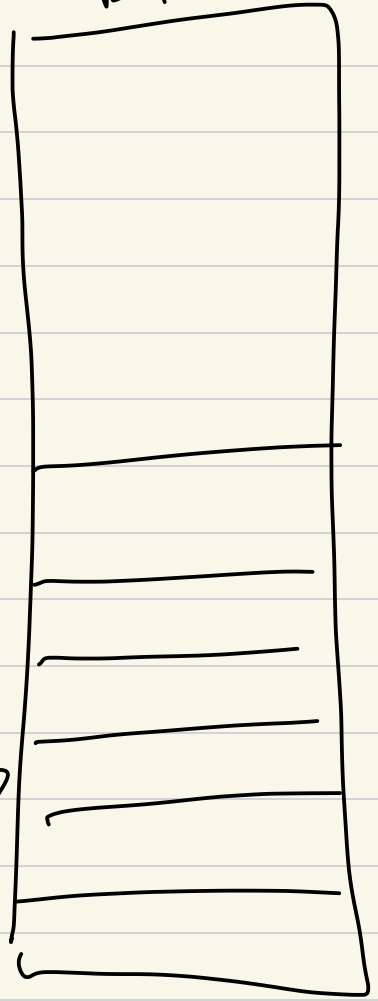


Virtual Address
space



4 KB page

RAM



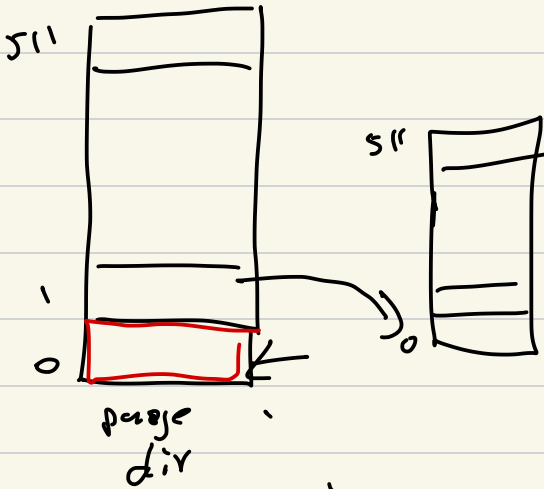
4 KB
page
frames

64 bits 8 bytes 2^3

$$2^{27} \cdot 2^3 = 2^{30} = \underline{1 \text{ GB}}$$

$$2^9 \cdot 2^3 = 2^{12} = 4 \text{ KB}$$

Total
Virtual
Addr



$$2^{39} = 512 \text{ GB}$$

$$\frac{2^{39}}{2^9} = 2^{30} = 1 \text{ GB}$$

$$\frac{2^{30}}{2^9} = 2^{21} = 2 \text{ MB}$$

