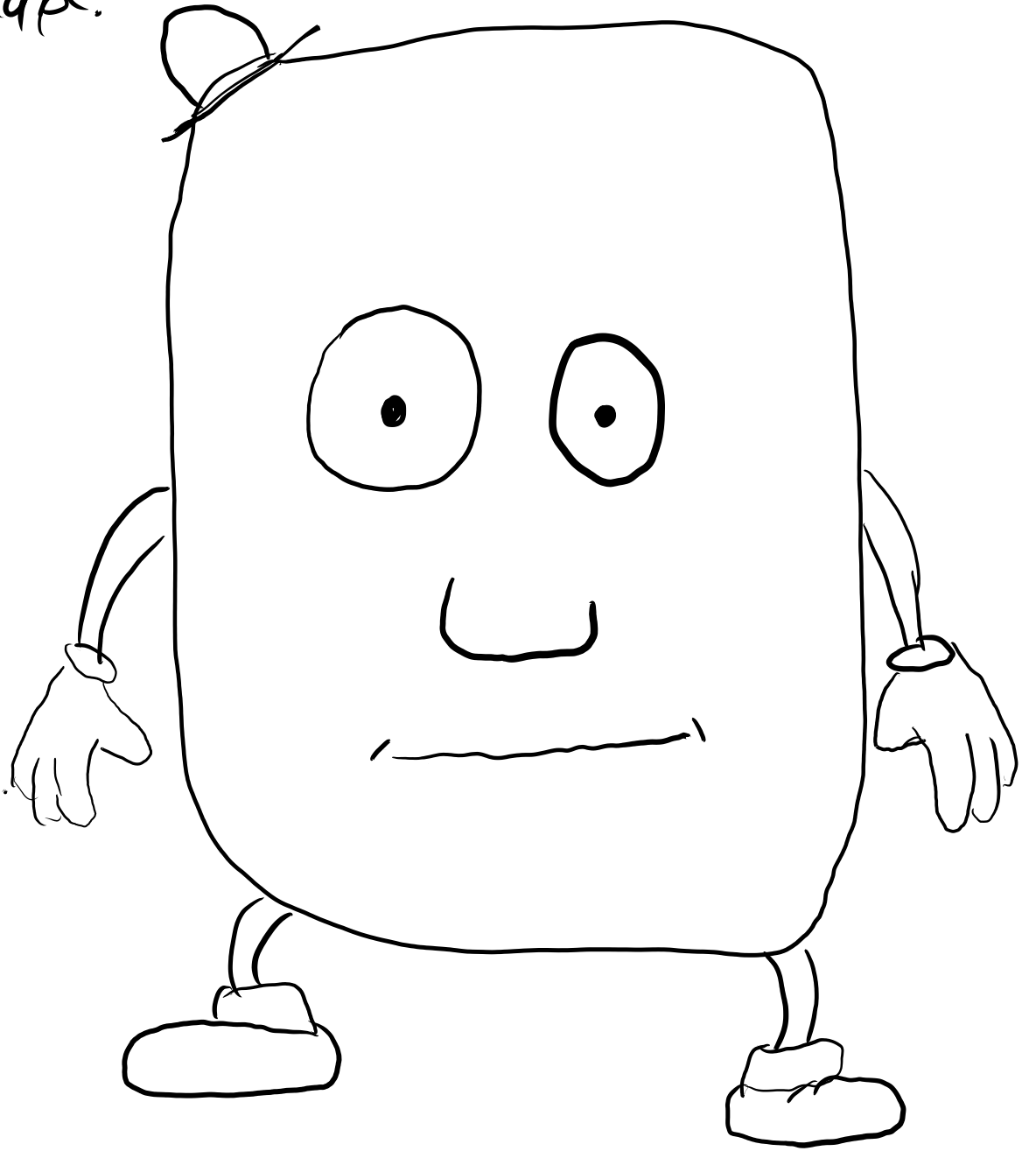


"Soapy" Malone thought  
the nickname was  
because of body shape.

Nope.

Like soap, even  
when Scapy was  
clean, he still smelled.



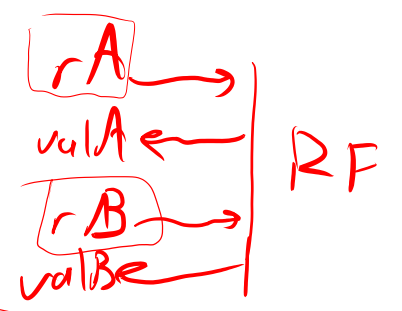
# 5 stages

1. Fetch



2. Decode

read reg file

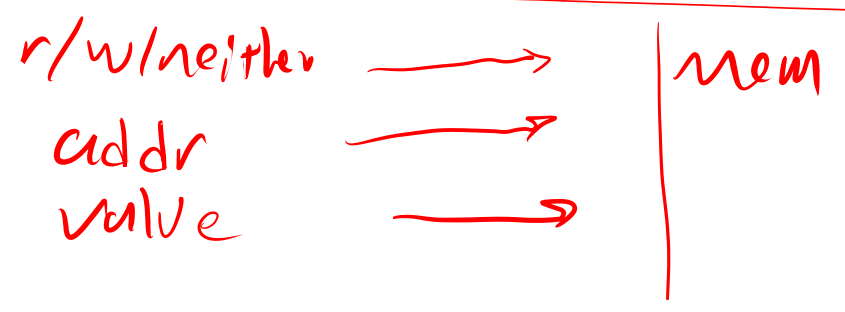


3. Execute

+ ^  
- &

set/check cc

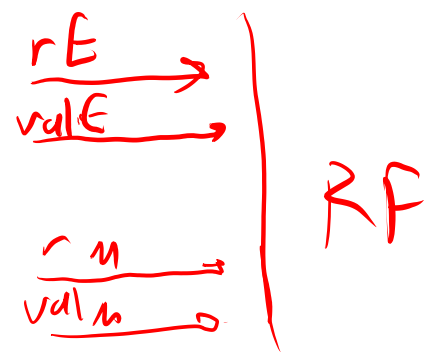
4. Memory



5. Write back

value ←

write to reg file

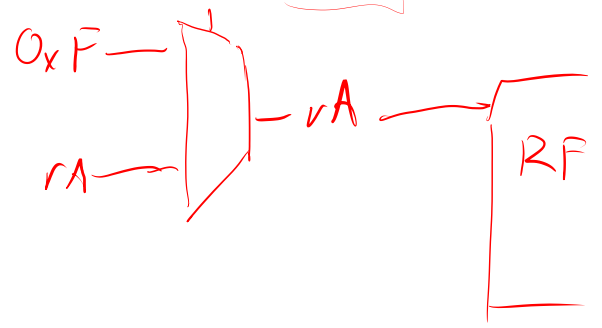


F  
D  
E  
M  
W

irmwq \$V, %rB  
 PC →  
 ← inst  
 icode

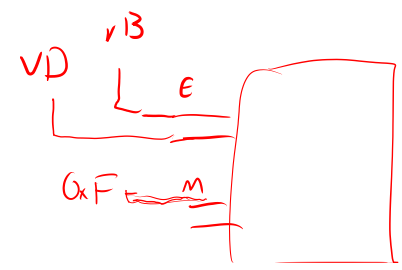


VD = 110 bytes [16.. 80]  
 rA = 110 bytes (12.. 16)  
 rB = 110 bytes (8.. 12)

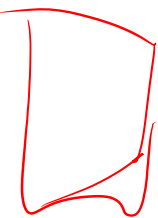
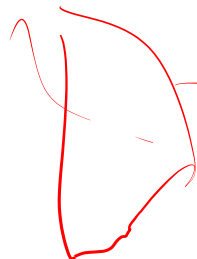
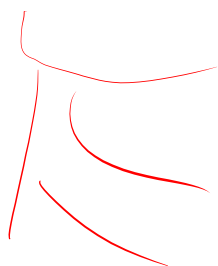
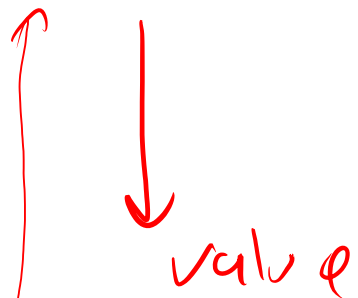


reg... = [  
 icode = IRmwq; 0xF;

];



Mem

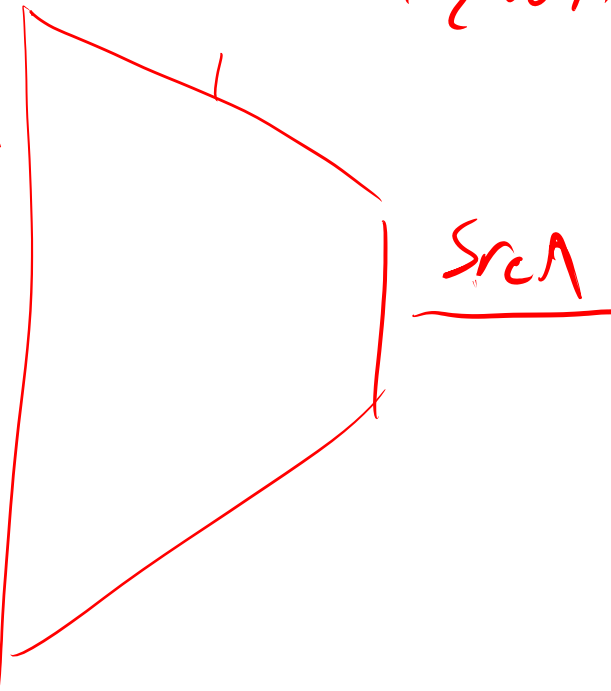


# Decoder

icode in {NOP, HALT, JCC, CALL, RET} <sup>M R MOV Q</sup>

Ox F 1

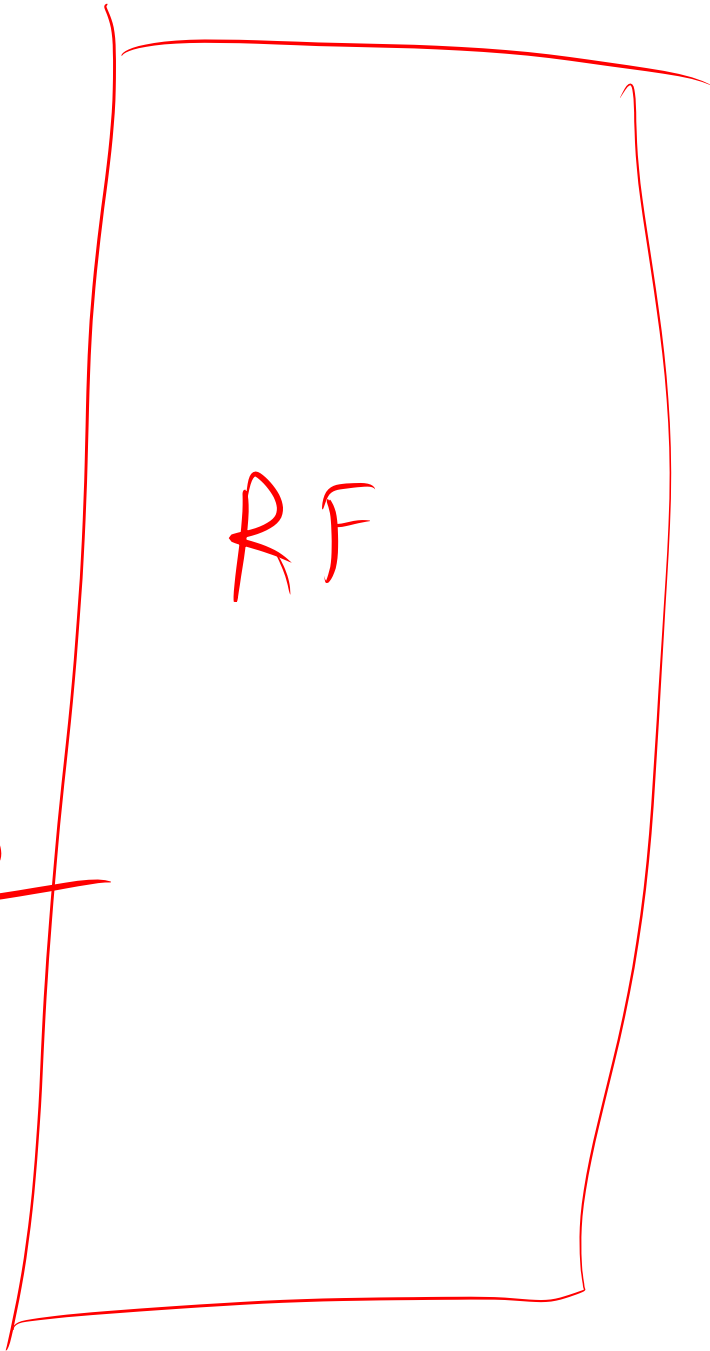
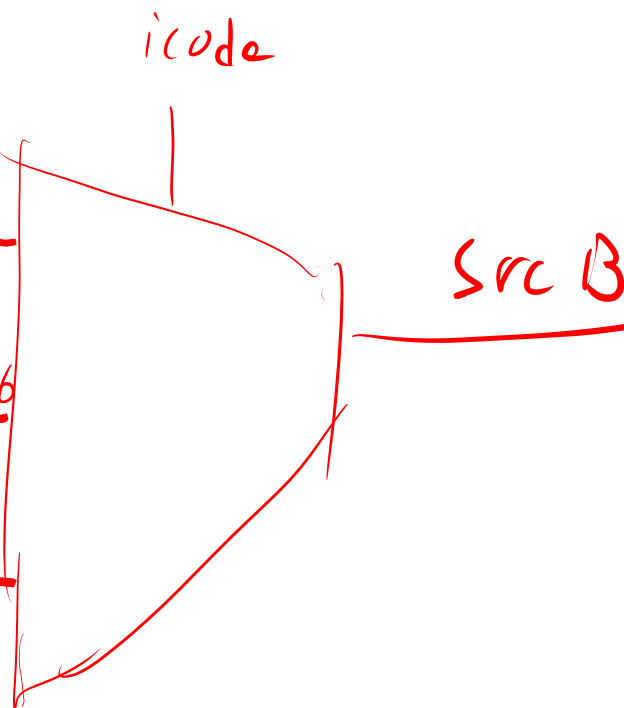
rA 0

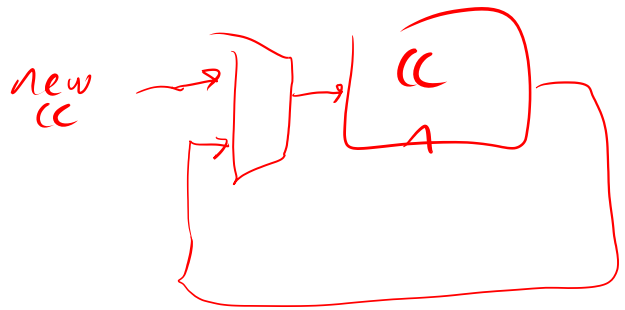


Ox F 2,3  
0,1,7

rB 4,5,6

RSP 8,9,A,B





- + →
- + →
- multy →
- sercc →
- chal ←
- 8 →
- +8 →
- 8 →
- +8 →

