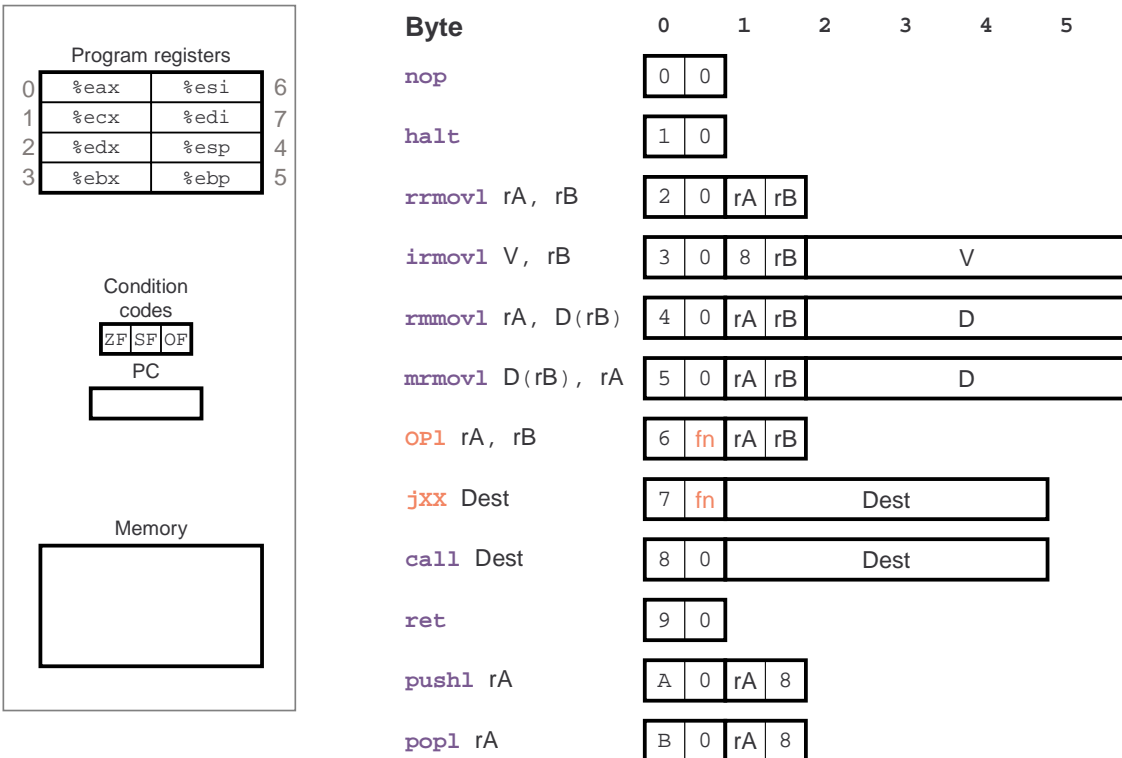


You may (carefully, so as to not destroy the staple) remove these last 2 pages from the exam and use them as a reference.

y86: a RISC-like and IA32-like ISA



y86: integer and branch function codes



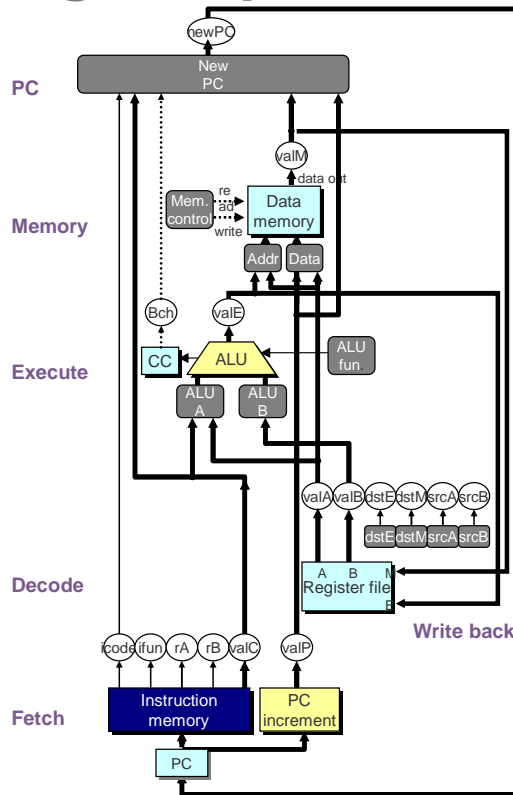
Integer operations

addl	<div style="border: 1px solid black; padding: 2px;">6</div>	<div style="border: 1px solid black; padding: 2px;">0</div>
subl	<div style="border: 1px solid black; padding: 2px;">6</div>	<div style="border: 1px solid black; padding: 2px;">1</div>
andl	<div style="border: 1px solid black; padding: 2px;">6</div>	<div style="border: 1px solid black; padding: 2px;">2</div>
xorl	<div style="border: 1px solid black; padding: 2px;">6</div>	<div style="border: 1px solid black; padding: 2px;">3</div>

Branches

jmp	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">0</div>	jne	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">4</div>
jle	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">1</div>	jge	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">5</div>
j1	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">2</div>	jg	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">6</div>
je	<div style="border: 1px solid black; padding: 2px;">7</div>	<div style="border: 1px solid black; padding: 2px;">3</div>			

stage outputs (the things we need combination circuits to compute)



fetch

- icode, ifun, rA, rB, valC
- valP

decode

- valA, valB
- srcA, srcB

execute

- aluA, aluB, alufun
- set_cc
- Bch
- valE

memory

- mem_addr, mem_data
- mem_read, mem_write
- valM

write back

- dstE, dstM

pc

- new_pc