

ICS'13 homework 4 solution

1. Addressing

Operand	Value
%eax	0x004
(%eax)	0x10
(%ebx,%ecx)	0x30
8(%edx)	0x50
4(%edx,%eax,2)	0x20

2. Stack operation:

(1) %ebp = 0xBFFFFFFC4 %esp = 0x0000FFF0

(2) %ebp = 0x0000FFF0 %esp = 0x0000FFF0

(3) %ebp = 0xBFFFFFFC4 %esp = 0x0000FFF4

3. Arithmetic operation:

Instruction	Destination	Value
addl %eax,%ebx	%ebx	0x300
subl %edx,(%eax)	0x100	-2
decl (%ecx)	0xCF	0x40
leal 6(\$eax),%ecx	%ecx	0x106
addl 8(%eax),%ecx	%ecx	0xCF

4. Open question

Anything you think is right~