Pipelined Cycle Diagram

Instruction	Location	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
mrmovl 8(%ebp), %esi	0x0	F	D	E	M	W																	
mrmovl 12(%ebp), %eax	0x6		F	D	E	M	W																
irmovl $-16, %ecx	0xc			F	D	E	M	W W_valE = -16															
irmovl $0, %edx	0x12				F	D	E	M	W														
irmovl $16, %ebx	0x18					F	D	E e_valE = 16	M	W													
addl %ebx, %ecx	0x1e						F	D val_A = e_valE = 16 valB = W_valE = -16	E e_valE = 0	M	W												
addl %eax, %ecx	0x20							F	D valB = e_valE = 0	E e_valE = &I[0]	M	W											
subl %edx, (%ecx)	0x22								F	D valB = e_valE = &I[0]	E	M m_valM = &I[0] M_valA = 0	W										
bubble												E	M	W W_valE = &I[0]									
										F	D	D valA = M_valA = 0 valB = m_valM = &I[0]	E	M valE = W_valE = &I[0]	W								
je .add0	0x28										F	F	D	E	M	W							
addl %edx, (%ecx)	0x1a0												F	D									
bubble															E	M	W						
														F									
bubble															D	E	M	W					
addl %edx, (%ecx)	0x2d														F	D	E	M m_valM = &I[0] M_valA = 0	W				
bubble																		E	M	W W_valE = &I[0]			
																F	D	D valA = M_valA = 0 valB = m_valM = &I[0]	E	M valE = W_valE = &I[0]	W		
subl %eax, %ecx	0x33																F	F	D	E	M M_valE = 0	W	
irmovl $12, %ebx	0x35																		F	D	E e_valE = 12	M	W
subl %ebx, %ecx	0x3b																			F	D valA = e_valE = 12 valB = M_valE = 0	E	M
jne .check0	0x3d																				F	D	E
irmovl $16, %ebx	0x18																					F	D
addl %ebx, %ecx	0x1e																						F