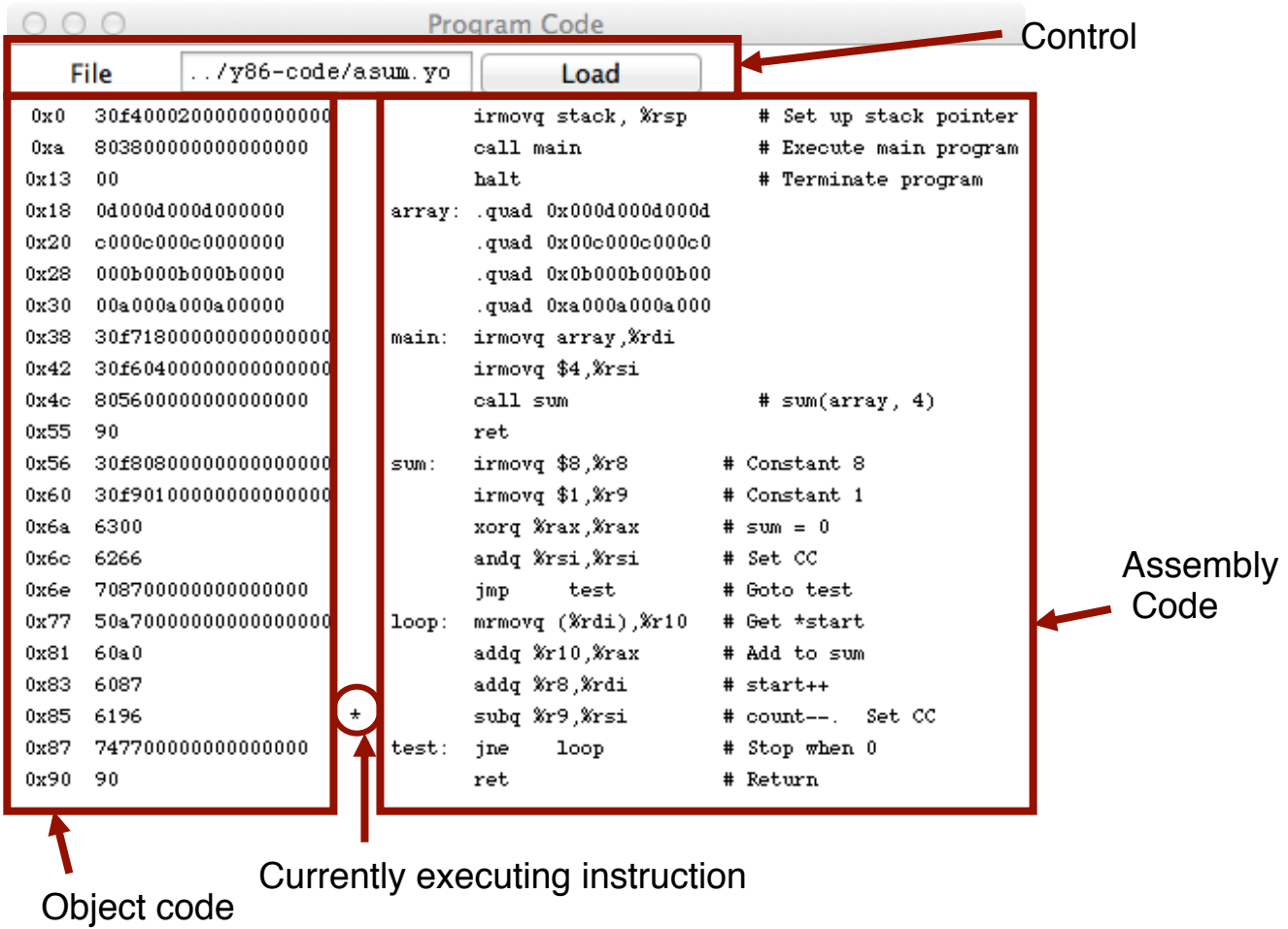
Program Code
File
../y86-code/asum.yo
Load
Control
0x0 30f40002000000000000
0xa 803800000000000000
0x13 00
0x18 0d000d000d000000
0x20 c000c000c0000000
0x28 000b000b000b0000
0x30 00a000a000a00000
0x38 30f718000000000000
0x42 30f604000000000000
0x4c 805600000000000000
0x55 90
0x56 30f808000000000000
0x60 30f901000000000000
0x6a 6300
0x6c 6266
0x6e 708700000000000000
0x77 50a700000000000000
0x81 60a0
0x83 6087
0x85 6196
0x87 747700000000000000
0x90 90
*
irmovq stack, %rsp # Set up stack pointer
call main # Execute main program
halt # Terminate program
array: .quad 0x000d000d000d
.quad 0x00c000c000c0
.quad 0x0b000b000b00
.quad 0xa000a000a000
main: irmovq array,%rdi
irmovq $4,%rsi
call sum # sum(array, 4)
ret
sum: irmovq $8,%r8 # Constant 8
irmovq $1,%r9 # Constant 1
xorq %rax,%rax # sum = 0
andq %rsi,%rsi # Set CC
jmp test # Goto test
loop: mrmovq (%rdi),%r10 # Get *start
addq %r10,%rax # Add to sum
addq %r8,%rdi # start++
subq %r9,%rsi # count--. Set CC
test: jne loop # Stop when 0
ret # Return
Assembly Code
Object code
Currently executing instruction