https://aslrfellow.github.io/

```
; NASM Hello World for x86 and x86_64 Intel Mac OS X (get yourself an updated nasm with brew)
 ; https://gist.github.com/FiloSottile/7125822
 ; nasm -f macho64 64in.asm && ld -macosx_version_min 10.7.0 -lSystem -o 64in 64in.o && ./64in
 global start
 section .text
 start:
           rax, 0x2000004 ; write
    mov
    mov
           rdi, 1 ; stdout
    mov
         rsi, msg
    mov
           rdx, msg.len
    syscall
          rax, 0x2000001 ; exit
    mov
    mov
           rdi, 0
    syscall
 section .data
              "Hello, world!", 10
       db
 msg:
 .len: equ $ - msg
. . .
rm 64in*
cat <<EOF > 64in.asm
; NASM Hello World for x86 and x86_64 Intel Mac OS X (get yourself an updated
nasm with brew)
; https://gist.github.com/FiloSottile/7125822
; nasm -f macho64 64in.asm && ld -macosx_version_min 10.7.0 -ISystem -o 64in
64in.o && ./64in
global start
section .text
start:
          rax, 0x2000004; write
  mov
          rdi, 1; stdout
  mov
  mov
          rsi, msg
```

```
rdx, msg.len
  mov
  syscall
  mov
         rax, 0x2000001; exit
         rdi, 0
  mov
  syscall
section .data
msg: db
            "Hello, world!", 10
            $ - msg
.len: equ
EOF
nasm -f macho64 64in.asm && ld -macosx_version_min 10.7.0 -lSystem -o 64in
64in.o && ./64in
ndisasm -b 64 64in > 64inout.asm
```

https://www.rapidtables.com/convert/number/hex-to-decimal.html
http://courses.ics.hawaii.edu/ReviewICS312/morea/ControlStructures/reading-dissassemble.html

```
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; Segment type: Pure code
 text segment byte public 'CODE' use64
assume cs: text
org 1FD9h
assume es:nothing, ss:nothing, ds:nothing, fs:nothing, gs:nothing
public start
start proc near
        eax, 2000004h
mov
        edi, 1
rsi, 2000h
edx, 0Eh
mov
mov
mov
                         ; Low latency system call
syscall
        eax, 2000001h
mov
mov
        edi, 0
syscall
                         ; Low latency system call
start endp
 text ends
```











