

Introduction to x86_64 (dis)assembly
<https://github.com/tobywf/talk-x86-64-asm>

64-bit	Caller owned	Role
RAX	Yes	return value
RBX		
RCX		4 th arg
RDX		3 rd arg/ret val
RSI	Yes	2 nd arg
RDI		1 st arg
RSP		stack pointer
RBP		frame pointer
R8		5 th arg
R9	Yes	6 th arg
R10		
R11		
R12-R15		

Callee must restore caller owned registers

Tools:

- `clang -O1 -S -masm=intel foo.c -o foo.s`
- `objdump -M intel -S foo > foo.s`
- `gdb`

macOS: `add -target x86_64-pc-linux-elf`