seL4 IPC Internals

What message do we need to pass?

Assume we are still on x86_64. By looking at the original seL4 syscall implementation. For example **x64** sys send recv:

```
x64 sys recv(seL4 Word sys, seL4 Word src, seL4 Word *out badge,
        seL4 Word *out info, seL4 Word *out mr0, seL4 Word *out mr1,
        seL4 Word *out mr2, seL4 Word *out mr3, seL4 Word reply)
{
        register seL4 Word mr0 asm("r10");
        register seL4 Word mr1 asm("r8");
        register seL4 Word mr2 asm("r9");
        register seL4 Word mr3 asm("r15");
        MCS REPLY DECL;
        asm volatile(
                "mova
                       %%rsp, %%rbx
                                         n"
                "syscall
                                         n"
                                         n"
                "movq %%rbx, %%rsp
                : "=D"(*out badge),
                "=S"(*out_info),
                "=r"(mr0),
                "=r"(mr1),
                "=r"(mr2),
                "=r"(mr3)
                : "d"(sys),
                "D"(src)
                MCS REPLY
                : "%rcx", "%rbx", "r11", "memory"
        );
}
```