## Analysing "Hello World" Roottask (cont)

## How many seL4 syscalls does the "Hello world" roottask invoke?

- seL4 SetTLSBase (set up the TLS region)
- seL4 DebugNameThread (needed if built with debug configuration)
- seL4\_DebugPutChar

## How to redirect those syscalls?

Modify the libseL4 to integrate our emulation library.

## At which level?

Modify the raw syscall ASM wrappers (**syscalls\_syscall.h**) to achieve **minimal** modification in the original code. Take x86\_64 as an example:

x64_sys_send	invokes	seL4emu_sys_send
x64_sys_reply	invokes	seL4emu_sys_reply
x64_sys_send_null	invokes	seL4emu_sys_send_null
x64_sys_recv	invokes	seL4emu_sys_recv
x64_sys_send_recv	invokes	seL4emu_sys_send_recv
x64_sys_nbsend_recv	invokes	seL4emu_sys_nbsend_recv
x64_sys_null	invokes	seL4emu_sys_null