

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 (**syscall_syscalls.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