

## Analysing "Hello World" Roottask

### What does a "Hello World" roottask need?

#### A runtime library

- seL4runtime
  - Set up the environment for an seL4 thread. (e.g. Thread Local Storage (TLS) region, POSIX syscall API redirection, IPC buffer, etc.)

#### C library and its backend

- musllibc
  - Provide POSIX programming interfaces for the developer. (e.g. **printf**, **open**, **read**, etc.)
- seL4musllibcsys
  - Provide backend handlers for seL4 musllibc.

#### seL4 system call library

- libseL4
  - Provide seL4 system call APIs.

#### seL4 kernel

- Provide critical seL4 kernel functionalities.