

seL4 Kernel Recap

How does kernel access kernel objects?

use capability (**access rights + reference**) \Rightarrow memory reference \Rightarrow any kernel objects on the memory.

Kernel window mapping

The kernel has 1:1 physical memory mapped in the virtual memory.

- At the **fixed base** of the kernel window which is $2^{64} - 2^{39}$. (assume we are using the x86_64 architecture)
- Easily access any data on the physical memory by adding an **offset** to the physical address.

