Linux kernel and C programming

BLOCK 2: Linux kernel modules 2

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Presentation Overview

Linux kernel modules 2

Char/driver devices

Introduction

Device files

Struct

To crate and to destroy

Example

Opening chardev from userspace app

ioctl

Example

Excercises

1. Create kernel module with a `chardev` named as `/dev/termbuffer`.
2. Lets make a buffer on the *Heap*, with the bytelength of `0x1000`. We should be able to write and read from this buffer with the previously created `/dev/termbuffer`.
3. Lets extend our previous terminal application, with writing and reading from `/dev/termbuffer`.

References

1. https://sysprog21.github.io/lkmpg/
2. https://elixir.bootlin.com/linux/v6.13.5/source/include/linux/
3. https://linux-kernel-labs.github.io/refs/heads/master/