



Linux Device Driver

Sunbeam Infotech

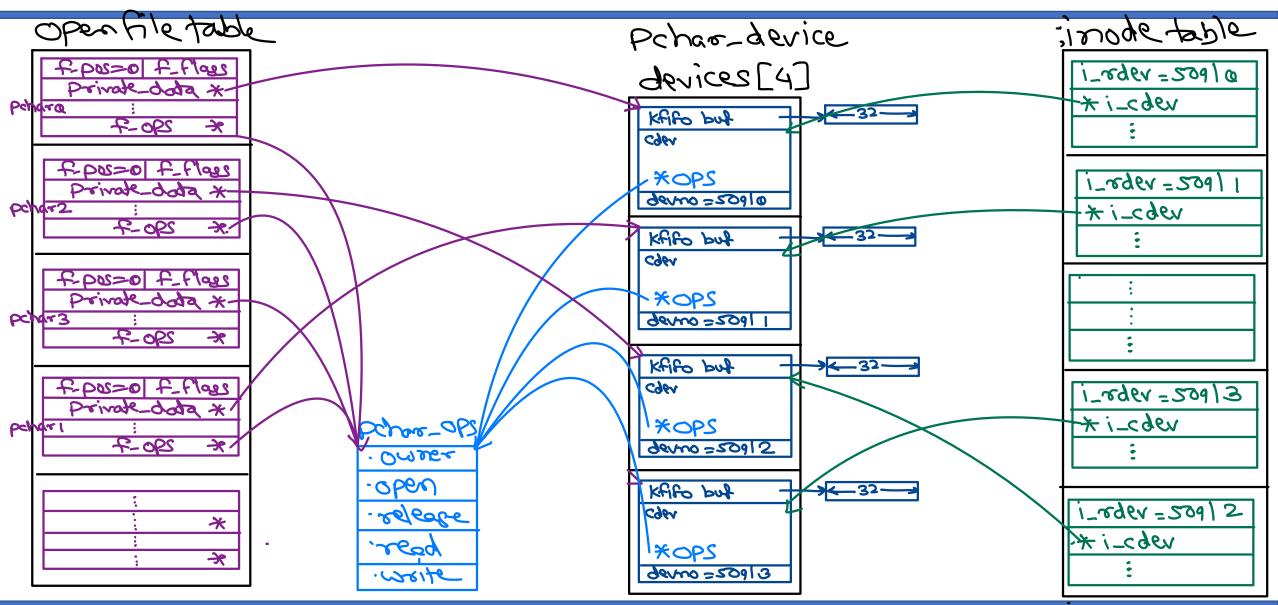


Multiple device instances

- Pseudo char device driver
 - Operations: open(), close(), read(), write().
 - Device file: /dev/pchar
 - Kernel presence: struct cdev
 - Data hold in: kernel fifo
- For multiple devices of same type (i.e. multiple device instances) single driver is used. Driver should be capable of handling multiple device data independently with the same code base (i.e. driver operations).
 - Operations: open(), close(), read(), write().
 - Device file: /dev/pchar0, /dev/pchar1, /dev/pchar2, ...
 - Kernel presence: struct cdev s
 - Data hold in: kernel fifo s
- Each device operation, should be able to access respective kernel fifo. Device file should be associated with it's own data (cdev & kfifo) i.e. private_data.

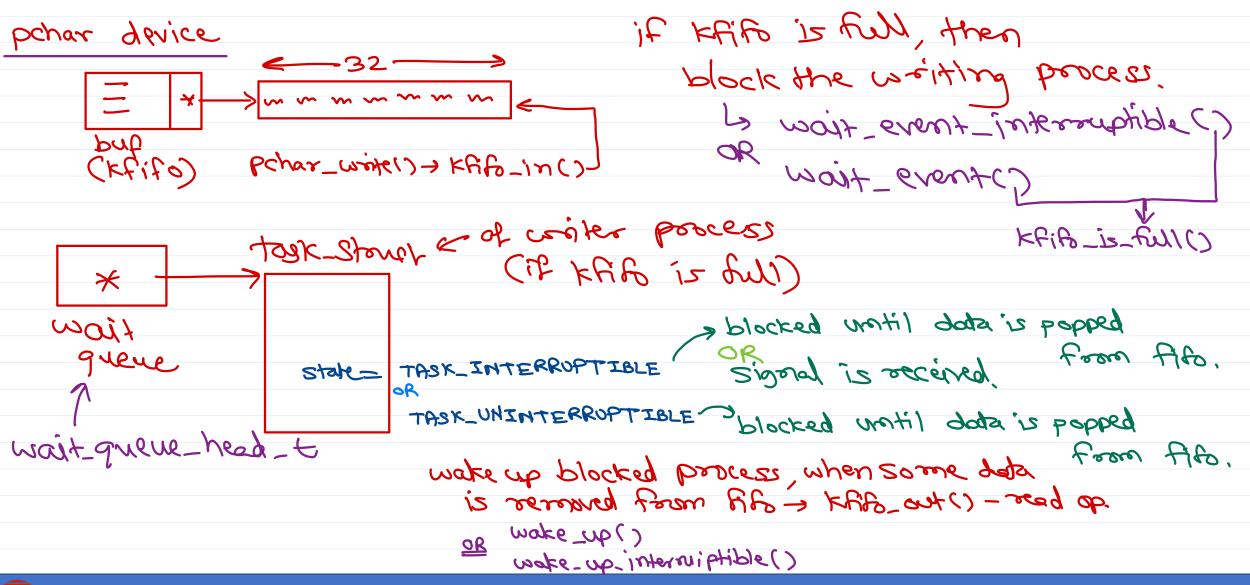


Execution Flow of Pseudo Char Device Driver (Multiple device instances)





Waiting Queue







Thank you!

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