
Linux Device Drivers 3rd Edition Mobi !FULL!

thus far, you have seen how to handle both synchronous and asynchronous userspace access to your device. but what if you need todo it synchronously? you can check the `f_setfl` flag in the `open()` flag parameter: if it's set, your `fd` will be a socket (thus, once opened, your device is tied to the flow of `i/o` within the `vfs` layer of the kernel). `struct file *filp; rcu_read_lock() spin_lock() filp = &file_inode(inode)->&filp; rcu_read_unlock() spin_unlock mutex_unlock() user_counter bar->bar->6 user_counter rcount rcount & atomic_inc_return(&bar->6 rcount) each device is assigned a device node, or in other words, a file that the kernel writes to the directory /dev. the file's name is called /dev/name, where the name is the device's uid (as described earlier). a device node can be seen as a file, since it's like a directory entry, and by default, a file is invisible to the user (although the user can navigate through directories/folders (use cd to go up and cd - to go down) to view them). a file is also just data to the kernel: it consists of blocks that correspond to the device, the various stream buffers the device needs, the memory mapped regions and i/o ports. in addition to all the mandatory device specific statistics and device information that can be read and set by the driver.`

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the second thing `access_ok()` checks is if the buffer has been initialised with `no_ptr_err` set; if it's not, it sets one. even if we can dereference the pointer, we should still throw in a `ptr_err`, just in case the code was hoping for something else but got a segfault instead. for example, by checking that the pointer is non-null, we can satisfy the compiler and the kernel that we may have control over that pointer. the final check is another simple bit; if the pointer has been initialised but not zeroed, it sets the `ptr_err` flag. this is because the kernel expects a pointer to be zeroed in order to check its validity. if a pointer isn't zeroed, then we're hosed, so we should signal this with a `ptr_err` and print a nice message to say that we had a bad pointer. in this driver, we'll deal with the `miscclass`; this will be interesting, since the `miscclass` doesn't usually appear on character devices. in fact, it's the `fdentry` of the `openmethod` that determines that we are dealing with a character device. the system call is invoked using `ioctl()`, a system call that actually bridges between kernel code and the `unixdomain` of programming (don't panic, we'll cover that in the `unix domainsection` in the next chapter). unlike character devices, the `miscclass` driver is very, very special. there's no concept of 'device drivers' (that is, user-space processes and the kernel, through device nodes, interface directly with devices via the `filesystem`); rather, a driver, for the `miscclass`, is an abstract concept. the bulk of the driver logic is placed inside a special, kernel-space symbol called the `struct file_operations` data structure. this data structure has a set of methods associated with it. these methods are called upon by the kernel when it needs to 'handle' a device (a dev, on a character device). `5ec8ef588b`

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