

LEARNING linux-device-driver

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#linuxdevice-

driver

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About

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Chapter 1: Getting started with linux-device- driver

Remarks

This section provides an overview of what linux-device-driver is, and why a developer might want to use it.

It should also mention any large subjects within linux-device-driver, and link out to the related topics. Since the Documentation for linux-device-driver is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

Detailed instructions on getting linux-device-driver set up or installed.

Hello World device driver

hello world.c

```
#include <linux/module.h>
#include <linux/kernel.h>
#include <linux/init.h>
#define AUTHOR "Bruce Lee"
#define DESC "Hello World driver"
static int __init init(void)
   printk(KERN_DEBUG "Hello World\n");
   return 0;
}
static void __exit deinit(void)
    printk(KERN_DEBUG "Goodbye World\n");
module_init(init);
module_exit(deinit);
MODULE_LICENSE("GPL");
MODULE_AUTHOR (AUTHOR);
MODULE_DESCRIPTION (DESC);
```

Makefile:

How to compile:

```
$ make
```

How to insert the module:

```
$ sudo insmod hello_world.ko
```

How to see print messages

\$ dmesg

How to list module/s

```
$ lsmod | grep hello_worls
```

How to remove the module

```
$ sudo rmmod hello_world
```

Read Getting started with linux-device-driver online: https://riptutorial.com/linux-device-driver/topic/5421/getting-started-with-linux-device-driver

Credits

S. No	Chapters	Contributors
1	Getting started with linux-device-driver	Community, nachiketkulk