

## **BASICS OF LINUX DEVICE DRIVERS**



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### **LINUX KERNEL INTERNALS Basics of Linux Device Drivers**

Basics of Linux Device Drivers We can define a device driver as a "Specific code that will define the behavior of a device connected to our system" for eg. the driver for touch screen will have code that will define the working of touchscreen and a driver for camera will have all the functioning of camera, similarly for other devices too.  
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Device Driver Basics. We will assume that you decide that you do not wish to write a user-space device, and would rather implement your device in the kernel. You will probably be writing two files, a .c file and a .h file, and possibly modifying other files as well, as will be described below.

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In this session, we will learn about About /dev directory Device Driver types (Character Devices, Block devices and Network Devices) Practical session included at the end.

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Most of the code in Linux is device drivers, so most of the Linux power management (PM) code is also driver-specific. Most drivers will do very little; others, especially for platforms with small batteries (like cell phones), will do a lot.

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### **Tutorial on Linux Device Driver Uppsala University**

Tutorial on Linux Device Driver Programming Embedded Systems 1 Basics The role of a driver is to provide mechanisms which allows normal user to access protected parts of its system, in particular ports, registers and memory

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### **Linux Device Driver Part 1**

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