



Easy Linux Device Driver, Second Edition: First Step Towards Device Driver Programming

Mahesh S. Jadhav

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Easy Linux Device Driver :“First Step Towards Device Driver Programming”

Easy Linux Device Driver book is an easy and friendly way of learning device driver programming . Book contains all latest programs along with output screen screenshots. Highlighting important sections and stepwise approach helps for quick understanding of programming . Book contains Linux installation ,Hello world program up to USB 3.0 ,Display Driver ,PCI device driver programming concepts in stepwise approach. Program gives best understanding of theoretical and practical fundamentals of Linux device driver. Beginners should start learning Linux device driver from this book to become device driver expertise.

--Topics Covered in book--

*Introduction of Linux

Advantages of Linux

History of Linux

Architecture of Linux

Definitions

*Ubuntu installation

Ubuntu Installation Steps

User Interface Difference

About KNOPPIX

Important links

*Terminal: Soul of Linux

Creating Root account

Terminal Commands

Virtual Editor Commands

*Linux Kernel

Linux Kernel Internals

Kernel Space and User space

*Device Driver

Place of Driver in System

Device Driver working

*Characteristics of Device Driver

Module Commands

Hello World Program

pre-settings

Write Program

Printk function

Makefile

Run program

*Parameter passing

Parameter passing program

Parameter Array

- *Process related program
- *Character Device Driver
 - Major and Minor number
 - API to registers a device
 - Program to show device number
 - Character Driver File Operations
 - File operation program.
 - Include .h header
 - Functions in module.h file
 - Important code snippets
 - Summary of file operations
- *PCI Device Driver
 - Direct Memory Access
 - Module Device Table
 - Code for Basic Device Driver
 - Important code snippets
- *USB Device Driver Fundamentals
 - Architecture of USB device driver
 - USB Device Driver program
 - Structure of USB Device Driver
 - Parts of USB end points
 - Important features
 - USB information Driver
- *USB device Driver File Operations
 - Using URB
 - Simple data transfer
 - Program to read and write
 - Important code snippets
 - Gadget Driver
- *Complete USB Device Driver Program
 - Skeleton Driver Program
- *Special USB 3.0
 - USB 3.0 Port connection
 - Bulk endpoint streaming
 - Stream ID
- *Device Driver Lock
 - Mutual Exclusion
 - Semaphore
 - Spin Lock
- *Display Device Driver
 - Frame buffer concept
 - Framebuffer Data Structure
 - Check and set Parameter
 - Accelerated Method
 - Display Driver summary
- *Memory Allocation
 - Kmalloc
 - Vmalloc
 - Ioremap

- *Interrupt Handling
- interrupt registration
- Proc interface
- Path of interrupt
- Programming Tips
- Softirqs, Tasklets, Work Queues
- *I/O Control
- Introducing ioctl
- Prototype
- Stepwise execution of ioctl
- *Sample Device Driver
- Complete memory Driver
- Complete Parallel Port Driver
- *Device Driver Debugging
- Data Display Debugger
- Graphical Display Debugger
- Kernel Graphical Debugger
- *Appendix I
- Exported Symbols
- Kobjects, Ksets, and Subsystems
- DMA I/O

EasyLDD is best book for beginners to start learning Device Driver programming from basics. Anyone can just take a book and start programming.

Book is easy to understand and friendly to use as book has easy language and screenshot of actual output window along with detailed explanation of each program.

This book is integration of Author's experimental programs, Latest programming concepts like USB3.0, Contains reference points from all Linux device Driver books and magazines.

Book has also collection of many programs available over websites, books and Linux community programs.

This book is first milestone towards learning driver programming in step-wise approach.

Book will build confidence in you so that you can easily jump in to any type of driver and start coding.

All the Best !

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