Linux Kernel Programming

🕘 Duration: 5 Days
🈂 Available Languages: English

Audience

Software developers, students who are interested to learn Linux kernel development and Embedded Linux.

Precondition

Attendees should know the Linux system usage and good knowledge of C language.

Goals

Learn Linux kernel programming and operating system.

Contents

- Linux Kernel compilation and cross compilation
- OS concepts
- Process
- Threads
- IPC
  - Shared memory
  - Mutex and semaphores
  - Pipes
  - TCP/IP(sockets)
- Schedular
  - FIFO
  - LIFO
  - Priority based scheduling
  - Hybrid scheduling
- Linux Kernel programming
  - Developing module
  - Developing utility
  - Creation of system call
- Memory management
  - Memory allocators
  - Page table vs segmentation
- Filesystems
  - SysFs
  - ProcFs
- File management
  - Inode object
- IOCTL

- Device drivers
  - Device (/dev)
  - Character drivers
  - Block drivers

Booking

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