



## Linux Course

This program is intended for programmers and engineers who seek an in-depth understanding of Linux system architecture, and programming. Both system and kernel programming are discussed in this program, with nearly 50% of the course duration being lab exercises. This is a fairly intense programming class.

Prerequisites:

- a) "C" programming is a must
- b) Some OS knowledge is helpful
- c) Some assembly programming knowledge is helpful but not necessary.

After attending the program, the audience would be able to do the following:

- a) Write application programs using the system call interface in Linux
- b) Write loadable modules and device drivers
- c) Configure and build the linux kernel
- d) Get comfortable with linux source browsing
- e) Understand the linux kernel architecture

Outline:

### System Programming

1. Virtual Memory
2. Process management
  - a. Processes
  - b. Threads
3. File and device I/O
4. IPC
5. Interesting issues in Linux system programming

### Kernel Programming

6. Kernel process management
7. Scheduling
8. Loadable modules
9. Kernel service routines
10. Device drivers
11. Interrupt handling
12. Debugging
13. BSPs

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