EMBEDDED LINUX INTERNALS

CURRICULUM

» GEETING STARTED

- Introduction to Unix and Linux
- Programming Linux
- Linux Compiler
- History of Linux
- Types of Linux platform

» Linux basics and commands

- File Handling
- Text Processing
- System Administration
- Process Management
- Archival
- Network
- File Systems
- Advanced Commands

» Working with file

- Unix file Structure
- File and directory maintenance
- Changing the attributes of a file systems
- File handling concepts
- Normal level file handling
- Low level File handling

» Sockets

- What is socket
- Socket connection
- Socket Attributes
- Creating a Socket
- Socket Addresses
- Naming a Socket
- Creating a Socket Queue
- Accepting Connections
- Requesting Connections
- Closing a Socket
- Socket Communications

» Processes and Signals

- What is process?
- Process Structure
- The Process Table
- Viewing Processes
- System Processes
- Process Scheduling

» Getting Started

- Kill a process
- Fork
- Starting New Processes
- Waiting for a Process
- Zombie Processes
- Input and Output Redirection
- Execve ,exec ,execv , execlp ,execl ,execve
- Process commands

» Threads

- What is thread
- Thread programming
- Wait queues
- Spin lock
- Synchronization

» Inter-process communication:

- Pipes
- Semaphores, message queues an
- shared memory
- Shared Memory
- Message Queues

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