

EMB710: System Development Jump Start with Mobilinux

Day 1

1. Overview of Mobilinux
2. Linux Terms and Players
3. Consumer Electronics and Linux
4. Getting Started with Mobilinux
5. Application Development
 - Lab 1 - Setup and Booting Target
 - Lab 2- Develop and Debug Application
6. The Linux Memory Model

Day 2

7. Shared Libraries
 - Lab 3 - Creating and Using Shared Library in DevRocket
8. Linux Threads and Scheduling
9. Synchronization
 - Lab 4 - Working with Linux Threads
10. Inter Process Communications
 - Lab 5 - IPC
11. Networking

Day 3

12. Time and Timers
 - Lab 6 - Using Timers in User Space
13. Variable Scheduling Timeouts
14. Kernel and Application Communication
15. Configuring the Linux Kernel
 - Lab 7 - Building a MontaVista Linux Kernel
 - Lab 8 - Tracing Linux Kernel Activity Using LTT

Day 4

16. Linux File Systems
17. Kernel Function Instrumentation
18. Dynamic Power Management
19. eXecute In Place
20. Accelerated Boot Functionality
21. Deploying MontaVista Linux
22. Final Thoughts