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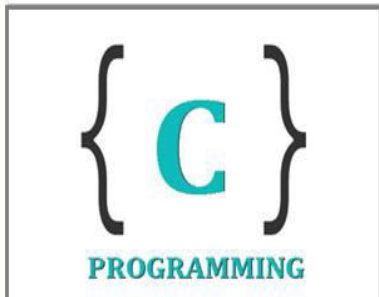
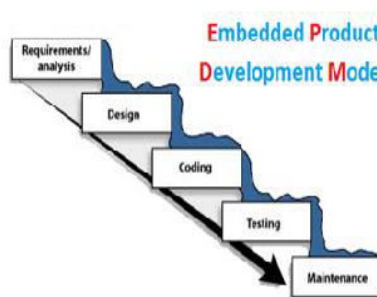
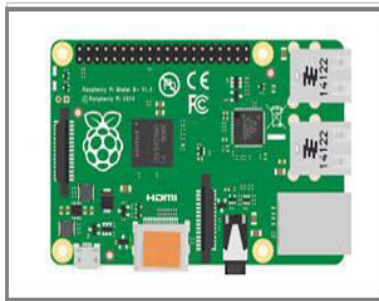
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Tool Used : Beagle Bone Black Rev C by Texas Instruments

Chapter 1

- 1.1 Introduction to Operating System —
- 1.2 Kernel – What is Kernel?
- 1.3 Kernel types and its structural implementations
- 1.4 Why OS is required in an Embedded Device?

Chapter 2

- 2.1 Operating System Concepts –
- 2.2 File Systems and its importance
- 2.3 File Management
- 2.4 Memory Management
- 2.5 Scheduling and Priority of Multi-Processor's & Multi Programming Systems



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2.6 Kernel Data structures

Chapter 3

3.1 System calls with examples using C Programming

3.2 File Management System calls

3.3 Inter Process Communication Concept and related system calls

3.4 Pipes

3.5 Sockets

Chapter 4

4.1 Introduction to Linux Porting-

4.2 What is porting? & Flow of Porting

4.3 Requirements to do porting Linux in ARM Architecture

4.4 Toolchain

4.5 Bootloader

4.6 Boot loader

- Primary Bootloader
- Secondary Bootloader



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- U-boot

4.7 Partition & Rootfs

- Partition Schemes
- Rootfs Organization
- SD Card Layout
- Selected Rootfs of File system

Chapter 5

5.1 Linux Porting on Beagle Bone Black(Angstrom OS) –

5.2 Using SPL or MLO image file to understand how primary and secondary boot loader works

5.3 ulmage Booting

5.4 Creating your own uEnv.txt from scratch

5.5 TFTP booting

5.6 Developing file system using buildroot and busybox



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Chapter 6

- 6.1 Shell Scripting
- 6.2 Shell Introduction and Types of Shell
- 6.3 Shell Scripting with Examples
- 6.4 Shell code development



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