

Experiment No-2

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Date

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Aim : Study of different operating system for Raspberry Pi / Beagle board
Understanding the processor OS installation on Raspberry-Pi / beagle board.

Theory : The Raspberry-Pi is a wonderful but powerful little computer that fits the palm of your hand. It has enough power to run as smoothly home media center a VPN and lot more. It has SD card for mass storage and will attempt to boot off that device from SD card when the board is powered on by 5V micro USB supply.

Brief Description of OS :

1. Rasbian : Currently, Rasbian is the most popular Linux-based OS for based the Raspberry Pi. Rasbian is an open source OS based on Debian which has been modified specially for the Raspberry Pi. It comes with Raspberry Pi Kit. It is designed and optimized for the Raspberry-Pi. h/w and the build consist of more than 3500 Rasbian Package. It is still under active phase with an emphasis on improving the capability stability and performance.

2. Pidora: The current Parthenon OS which was a remix of the open source Debian OS chip based on ARM VG would make way for Pidora.

3. Arch Linux:

Arch gives you the ability to build your system from the ground up including only the stuff you actually need.

4. OSMC:

Open Source Media Center is a free and open source media player based on Linux. It lets you play back media center in terms of feature set and community & is based on the Kodi project.

5. RetroPie

It allows you to turn your Raspberry pi into a retro gaming machine. This OS is very useful emulating many games.

6. PISC OS:

It is specially designed to RUN on ARM chipset. It is fast compact and efficient.

7. Firefox OS:

It is an OS which is more associated with being a linux kernel based open source OS primarily designed for smart phones and tablet computers.

Conclusion : Thus we have studied installation for various os in Raspberry Pi