Experiment - 2.

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Aim : - Study of differents operating system for Raspberry pi / Beagle boards. Understanding the processes of OS. Installations on Raspberry Pi beagle board.

Theory -

The Raspberry Pi is a wonderful but powerful little computer that fits the palm of your hands. It has enough power to run OS smoothly, home media center, a VAN and a lot of more. It has SD card for mass storage and will attempt to. boots off that device from SD card. when the board is powered on by 5v micro USB supply.

Brief Discription of OS :

1. **Rasbian :**
    Currently, Rasbian is the most popular linux-based OS for the Raspberry pi. Raspbian is an open source os based on.

Debian, which has been modified specifically for the Raspbeery Pi. It comes with Rasp- beerypi kit. It is designed and optimized. for the Raspbeery h/w and the build. Consiste of more than 35000 Raspbeery ~~hw~~ package. It's still under active. phase with an emphasis on improving the capability, stability and performances.

2. Pidora :

The current Rasbian os which was a remix of the open source Debian, os chip. - based on ARM would makes way for pidora.

3. Arch Linux :

Arch gives you the ability to build your system from the ground up, including only the s/w you actually need.

4. OSNC:

Open source media center- is a free and open source media player Based on linux. It lets you play back media centerre in terms of feature's set. and community & is based on the Kodi projects

5. RetroPIE

It allows you to turns your Raspberry Pi. into a retro-gaming machine. This OS is very useful emulation on many games.

6. RISC OS:

It is specifically 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 Sources OS primirally designed for. Smart phones and tablet computers.

Conclusion → Thus, we have studred installations for various. OS on Raspberry Pi.