

Mutirom Booting on Android Device

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Abstract- Today in rapid change in hardware and software field, we have powerful devices that can run one operating system simultaneously. While they have the potential to run multiple OS simultaneously.

MultiROM gives your device the ability to install and use multiple ROMs, or even other Linux based Operating Systems alongside each other.

Many Android devices given are supported in present from the manufacture side. In the nutshell it is good for everyone who wants to try out something. New on their hardware or just want to do testing while the current work setup

Keywords- MultiROM BOOT Manager, TWRP recovery ,add ROM, Hard BOOT kernel

I. INTRODUCTION

Android ,one of the most popular operating systems, have relatively complete app ecosystem. Rich applications resource provides end users with inconvenience which Makes Android Devices integrated into end-user life. MultiROM is created with Sole purpose only, so that user can have choice and so that they can have multiple operating systems tailored for their every need.

The primary component of MultiROM is a boot manager, which appears every time your devices start and lets you choose ROM to boot. It is similar to the GRUB(Boot loader of Linux).or MS-DOS boot Manager(BootLoader to Windows).

MultiROM gives your device the ability to install and boot multiple Android ROMs, or even other Linux based operating systems alongside each other.

Multi-booting is the act of installing multiple operating systems on a computer and being able to choose which one to boot. The term dual-booting refers to the common configuration of specifically two operating systems. Multi-booting may require a custom boot loader.

We simply have to click the operating System we have to boot in and it will directly boot that OS. The primary or internal operating Systems boots by default if no option is

selected. Installing other ROMs are doing by TWRP RECOVERY which let us install ,backup, restore, delete ROM's.

II. IDENTIFY, RESEARCH AND COLLECT IDEA

Traditionally and even now, every device is supposed to boot on a single OS .The operating System that comes pre-installed is also called as OEM OS(Original Equipment Manufacturer operating System).This OEM O.S works well enough for most cases, there is limited support for expansion and updating. If the manufacturer is not providing incremental updates, then the potential of devices is being wasted.

Although the pre-installed OS gives stability, the limited scope of what it can and what the devices can handle are two distinct things. For Example: A

User has device with two gigs of RAM,A 2GHz Quad core Processor,32 GB storage and android 4.2.2(jellybean) comes preinstalled with it. Although jellybean provides good functionality and stability to user but it is not exploiting the current extent of hardware. The latest version of android Marshmallow which is Android 6.0 which can run very well on the above mentioned hardware. Upgrading to it provides access to boat land of new features, ui changes, system overhaul but the user is afraid that he/she might lose the stock OEM OS.

This is where MultiROM can help. The above user can keep the original OS i.e. 4.2 and install Android 6.0 alongside it's he can enjoy the best of both.

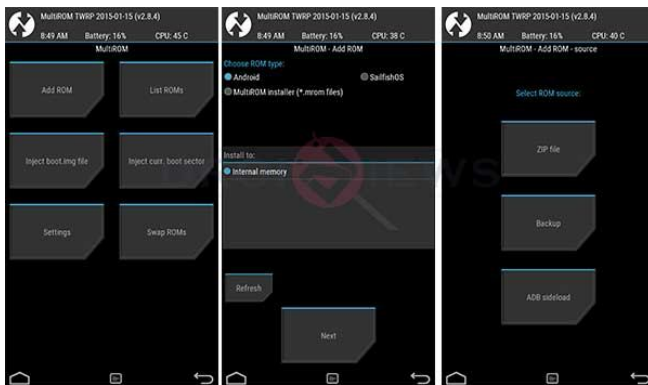
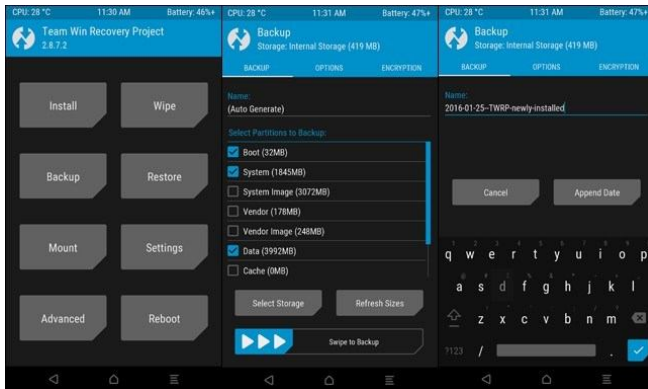
He can have UI Improvements, new features with android 6.0 while having the ability to run on the android 4.2.

III. WRITE DOWN YOUR STUDIES AND FINDINGS

We studied various previous studies on multirom booting And their techniques to develop multibooting. So we found that the hardboot patcher and various custom and TWRP rom's are only for the some 2-3 devices.

So we are unable to boot the many OS's to the devices We want. Firstly the MultiROM booting is only for the devices such as the LG optimus and Google Nexus.

Our project is about to Provide MultiROM booting Through the PORTING on any devices that we want.We can fastboot our device and can Overclock it.



IV. CONCLUSION

The existing system consists of phases like installing ROMS, editing the GUI, editing the Menu Options, uninstalling the ROMs. The final output of the proposed system is in the form of report so that it can be further analyzed and reformed in future by a more improved system than the proposed system.

Thus, on the basis of literature survey and by analyzing the existing system, we have come to a conclusion that the proposed system will be able to install Multiple ROMS at once and using it is very easy.

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