

November2022 tagged dunfell build for Rpi4-64 bit

Host Setup

- For Host Setup details, refer this link – [How to Build#SettinguptheHostEnvironment](#)

Repo Configuration

In order to use Yocto build system, the repo tool must be properly installed on the machine.

To install Repo make sure you have a /bin directory in your home directory and that it is included in your path

Repo Setup

```
mkdir ~/bin

PATH=~/bin:$PATH

curl http://commondatastorage.googleapis.com/git-repo-downloads/repo > ~/bin/repo

chmod a+x ~/bin/repo
```

Note: Cloning the code before login once to [code.rdkcentral.com](#), user would get the Authentication error, even though the account is in good standing and has all the required access. Please login to [code.rdkcentral.com](#) before attempting to clone.

Build Instruction

Create workspace directory,

```
$ mkdir <workspace dir>

$ cd <workspace dir>
```

Follow below build instructions,

RPI4 Extender

Build Steps

```
$ repo init -u https://code.rdkcentral.com/r/reference/manifests -m rpi-tags/rpi4_64_rdkb_30Nov22.xml -b master

$ repo sync -j4 --no-clone-bundle

$ cd rdkb/components/opensource/ccsp/Utopia && git fetch https://code.rdkcentral.com/r/rdkb/components/opensource/ccsp/Utopia refs/changes/10/76910/1 && git cherry-pick FETCH_HEAD && cd ../

$ cd MeshAgent && git fetch https://code.rdkcentral.com/r/rdkb/components/opensource/ccsp/MeshAgent refs/changes/99/77499/2 && git cherry-pick FETCH_HEAD && cd ../../../../

$ MACHINE=raspberrypi4-64-rdk-broadband source meta-cmf-raspberrypi/setup-environment

$ bitbake rdk-generic-extender-image
```

Flashing Procedure

Following command can be used to flash the RPI image to sd card using linux machine . bmap tool should be available in linux

```
bzip2 -d <path to ImageName.wic.bz2>  
sudo -E bmaptool copy --nobmap <path to ImageName.wic> <path to SD card space>
```

Example:

```
$ bzip2 -d rdk-generic-broadband-image-raspberrypi4-64-rdk-broadband.wic.bz2  
$ sudo -E bmaptool copy --nobmap rdk-generic-broadband-image-raspberrypi4-64-rdk-broadband.wic /dev/sdb
```