April2022 Tagged dunfell builds for RPI

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 Gateway

Build Steps

```
$ repo init -u https://code.rdkcentral.com/r/reference/manifests -m rpi-tags/rpi4_rdkb_dunfell_6May2022.xml -b
master

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

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

$ bitbake rdk-generic-broadband-image
```

RPI4 Extender

Build Steps

```
$ repo init -u https://code.rdkcentral.com/r/reference/manifests -m rpi-tags/rpi4_rdkb_extender_6May2022.xml -b master

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

$ MACHINE=raspberrypi4-rdk-extender 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-raspberrypi-rdk-broadband.wic.bz2
$ sudo -E bmaptool copy --nobmap rdk-generic-broadband-image-raspberrypi-rdk-broadband.wic /dev/sdb
```