

Using Yocto layer "meta-bct-rx3"

Introduction

Blue Chip Technology provides a Yocto layer to support the RM3 and RE3 boards (collectively known as Rx3).

This page describes how to install and use the layer to create Linux images for these boards, using the Yocto "krogoth" branch.

Step 1 - Download Freescale FSL Community BSP

The Blue Chip Technology Yocto layer is based on the Freescale FSL Community BSP, which must be downloaded / installed first.

<https://github.com/Freescale/fsl-community-bsp-platform>

Step 2 - Download "meta-bct-rx3" layer

The best way to download / install the BCT layer is to add it to the existing manifest for repo (alongside the Freescale layers).

Add the following entries to fsl-community-bsp/.repo/manifest.xml

```
<remote fetch="git://github.com/bluechiptechnology" name="bct"/>
```

```
<project remote="bct" revision="krogoth" name="meta-bct-rx3" path="sources/meta-bct-rx3"/>
```

Now refresh the Yocto source (this will download and install the new layer) using this command:

repo sync

Step 3 - Add layer to Yocto configuration

Initialise the Yocto configuration using the command:

```
source setup-environment build
```

This creates a working directory called "build".

Now add the following entry to the BBLAYERS string in fsl-community-bsp/build/conf/bblayers.conf

```
${BSPDIR}/sources/meta-bct-rx3 \
```

Step 4 - Configure build for RE3 / RM3 board

For RM3 add the following entry to fsl-community-bsp/build/conf/local.conf

```
MACHINE = "bct-rm3"
```

For RE3 add the following entry to fsl-community-bsp/build/conf/local.conf

MACHINE = "bct-re3"

Step 5 - Build Image

To start a build type the following :

bitbake core-image-sato

Useful links

Yocto development manual - <http://www.yoctoproject.org/docs/1.6/dev-manual/dev-manual.html>

Yocto reference manual - <http://www.yoctoproject.org/docs/current/ref-manual/ref-manual.html>

Freescale Yocto training - <https://community.freescale.com/docs/DOC-94849>

The Freescale community site has many other useful articles - simply search for "Yocto"