

How to solve QA error or depends erro in yocto-project for a specific recipes.

***** START *****

Create a simple bash script recipes in my meta-txt layer.

Create a new recipes in recipe-example folder.

Recipe name is helloshell.

In helloshell recipes create two files one is .bb file and other one is files name folder.

\$ cd helloshell

In helloshell folder , now create first .bb file name is helloshell.bb.

\$ vi helloshell.bb

Write this data in this recipe file

SUMMARY = “ THIS IS SIMPLE HELLO WORLD SHELL SCRIPT FILE”

LICENSE = “MIT”

LIC_FILES_CHKSUM=“[file://](#)[\\${COREBASE}](#)/meta/COPYING.MIT;md5=3da9cfbcb788c80a0384361b4de20420”

SRC_URI = “[file://](#)[hello.sh](#)”

S = “\${WORKDIR}”

```
do_install(){
    install -d ${D}${bindir}
    install -m 0755 ${S}/hello.sh ${D}${bindir}
}
```

save and exit this file.

Now enter the files folder and create one shell script program in this folder.

\$ vi hello.sh

#!/bin/bash

echo “HELLO-WORLD”

save and exit the file.

Now enter conf file in your creating layer(meta-txt).

\$ cd conf

and add the path of your presenting layer in layer.conf file.

\$ vi layer.conf

BBFILES += “[\\${LAYERDIR}](#)/recipes-example/hello_script/helloshell.bb”

add this line to define where is your file is present in this layer.

Now create the build enviornment.

Enter the poky folder.

Enter this command to create the build enviornment.

\$ source oe-init-build-env ../build/

you run this command so you directly enter the build folder. In build show one folder name is conf file and in this folder show local.conf file.

Add your recipes in this file.

IMAGE_INSTALL:append = “ helloshell”

save and exit.

Now simple build first this recipe using bitbake command.

\$ bitbake helloshell

All the packages are build successfully but final task show error do_package_qa. It show error to build this package because it not match quality assurance condition which is define in yocto-project.

It simple solve this problem you are add depends value in the .bb file.

Again go and open helloshell.bb file and add this variable to add dependency.

```
SUMMARY = " Create the simple hello world shell script program "  
LICENSE = " MIT "  
LIC_FILES_CHKSUM = "  
file://${COREBASE}/meta/COPYING.MIT;md5=3da9cfbcb788c80a0384361b4de20420 "  
SRC_URI = "file://hello.sh"  
S = "${WORKDIR}"  
RDEPENDS:${PN} = "bash"  
do_install(){  
    install -d ${D}${bindir}  
    install -m 0755 ${S}/hello.sh ${D}${bindir}  
}
```

RDEPENDS:\${PN} = "bash"

This variable is provide the build dependency for this script to build successfully without any error. And Not show do_package_qa error for build process.

And save and exit the file again now time to build again this recipes.

Enter the build folder and run this command to build the recipes.

\$ bitbake helloshell.

You are check also your package is available or not in the working directory for this command.

\$ bitbake -e helloshell | grep ^WORKDIR=

It show your all package data in this package.

Now time to build the final image to add or make a part this recipes in your final image.

\$ bitbake core-image-minimal

***** END *****