

Clean Task process in Yocto-project.

There are 3 types of clean task in Yocto-project.

1. **do_clean**
2. **do_cleansstate**
3. **do_cleanall**

Basic understanding of every build recipes to perform how many process task execute to build the final package in the yocto-project.

do_fetch
do_unpack
do_patch
do_configure
do_compile
do_install

Bitbake will be focus on 3 main category folders in the yocto-project.

1. **downloads**
2. **sstate-cache**
3. **tmp or source folder or work folder.**

1. do_clean

If you build any recipes for example i have build basic simple hello world program recipes and my recipes name is hello-world.

Build the package of hello-world.

\$ bitbake hello-world

Now check this package data will be available in three folders.

1. **downloads folder.**
2. **sstate-cache folder.**
3. **tmp / work / core2-64-poky-linux/**

In this folder will store all the data for your build recipe.

Downloads : this folder will store the actual fetch source data for your recipes, where to source the package.

Sstate-cache : this folder will store all the data in cache or binary form which is used if you rebuild the package then this store data will help to build fastly all the necessary files or folder which you need it.

tmp / work / core2-64-poky-linux : this folder will store the original files of the data which is used to build or make a part of the final image.

```
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/hello/1.0-r0$ ls
configure.sstate  deploy-source-date-epoch  high      license-destdir  patches          pkgdata-sysroot  recipe-sysroot-native  temp
debugsources.list  hello.c                   high.c    package          pkgdata          pseudo           source-date-epoch
deploy-ipks        helloworld               image     packages-split   pkgdata-pdata-input  recipe-sysroot   sysroot-destdir
```

In this image show all the necessary package data.

Now if use only **do_clean** task then it will clean all the data which is present in the / **tmp / work / core2-64-poky-linux** folder and show empty.

Run the do_clean command.

\$ bitbake c clean hello-world

Note :: If you check the data in this folder then it will be empty.

If you build again the package then it will build fastly but its not create the actual file it create only packages and sysroot folder or ther files but not create the actual file output and if you build the final image then it will show the actual data of the file.

\$ bitbake core-image-minimal

because do_clean command not clean the data in downloads or sstate-cache folder it delete only data in work directory folder. It is the issue found in **do_clean** command.

2. do_cleansstate

This task will clean the sstate-cache folder data and work folder data. But it not clean the downloads folder data.

If you run do_cleansstate command to clean your recipes data.

\$ bitbake c cleansstate hello-world

It will clean work and sstate-cache data for your recipes.

If you check the data in the work directoy folder then it show only temp folder. In temp folder it show the log of running do_cleansstate command.

```
arjun@arjun-HP-348-G4: ~/YOCT... x arjun@arjun-HP-348-G4: ~/tmp/w... x ar
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/test/1.0-r0$ ls -l
total 4
drwxr-xr-x 2 arjun arjun 4096 Mar  7 11:47 temp
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/test/1.0-r0$
```

If you build again the package and then it all the data of your package which is necessary to you.

\$ bitbake hello-world

```
drwxr-xr-x 2 arjun arjun 4096 Mar  7 11:47 temp
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/test/1.0-r0$ ls
temp
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/test/1.0-r0$
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/test/1.0-r0$ ls
configure.sstate  deploy-source-date-epoch  jaiho  packages-split  pkgdata-pdata-input  recipe-sysroot  sysroot-destdir
debugsources.list  hello.c  license-destdir  patches  pkgdata-sysroot  recipe-sysroot-native  temp
deploy-ipks  image  package  pkgdata  pseudo  source-date-epoch
arjun@arjun-HP-348-G4:~/tmp/work/core2-64-poky-linux/test/1.0-r0$
```

3. do_cleanall

This command helps to remove all the data which is present in the downloads , sstate-cache, work folder.

Clean data in downloads folder.

Clean data in sstate-cache folder.

Clean data in work directory folder.

Run this command to remove this.

\$ bitbake c cleanall hello-world

Build again then it show all the data of your files.

\$ bitbake hello-world

***** END *****