

Yocto-build steps:

has context menu

# refer <https://docs.yoctoproject.org/brief-yoctoprojectqs/index.html>

Install below packages to setup yocto build in our machine:

```
sudo apt install gawk wget git diffstat unzip texinfo gcc build-essential chrpath socat cpio  
python3 python3-pip python3-pexpect xz-utils debianutils iputils-ping python3-git  
python3-jinja2 libegl1-mesa libsdl1.2-dev pylint3 xterm python3-subunit mesa-common-dev  
zstd liblz4-tool
```

# download source code

cd ~

mkdir local\_build

cd local\_build

git clone

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/poky-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/poky-mirror)

mv poky-mirror poky

git clone -b gatesgarth

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-ptx-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-ptx-mirror)

mv meta-ptx-mirror meta-ptx

git clone -b gatesgarth

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-freescale-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-freescale-mirror)

mv meta-freescale-mirror meta-freescale

git clone -b gatesgarth

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-qt5-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-qt5-mirror)

mv meta-qt5-mirror meta-qt5

git clone -b gatesgarth

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-op](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-op)

[enembedded-mirror](#)

```
mv meta-openembedded-mirror meta-oe
```

```
git clone -b gatesgarth
```

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-java-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-java-mirror)

```
mv meta-java-mirror meta-java
```

```
git clone -b zeiss/eas/devel/wip
```

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-zeiss-conan-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-zeiss-conan-mirror)

```
mv meta-zeiss-conan-mirror meta-conan
```

```
git clone -b zeiss/genxin/amd_ryzen_v2748
```

[https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA\\_Ushuaia-Stand/\\_git/meta-zeiss-meditec-mirror](https://ZEISSgroup-MED@dev.azure.com/ZEISSgroup-MED/SHA_Ushuaia-Stand/_git/meta-zeiss-meditec-mirror)

```
mv meta-zeiss-meditec-mirror meta-zeiss-meditec
```

```
# copy file "oe-init-build-env" to this path
```

```
cp oe-init-build-env ./
```

```
# copy Ushuaia_application and DCS package
```

```
# download latest yocto application from pipeline and rename to Ushuaia_Yocto.zip
```

```
mkdir -p
```

```
~/local_build/meta-zeiss-meditec/meta-zeiss-proprietary/recipes-application/ushuaia-app/files/
```

```
cp Ushuaia_Yocto.zip
```

```
~/local_build/meta-zeiss-meditec/meta-zeiss-proprietary/recipes-application/ushuaia-app/files/
```

```
# download DCS package from
```

[https://dev.azure.com/ZEISSgroup-MED/BLR\\_USHUAIA\\_MS/\\_artifacts/feed/DCS\\_PACKAGE](https://dev.azure.com/ZEISSgroup-MED/BLR_USHUAIA_MS/_artifacts/feed/DCS_PACKAGE)

```
and rename to dcs.tar.gz
```

```
mkdir -p
```

```
~/local_build/meta-zeiss-meditec/meta-zeiss-proprietary/recipes-application/ushuaia-dcs/files/
```

```
cp dcs.tar.gz
```

```
~/local_build/meta-zeiss-meditec/meta-zeiss-proprietary/recipes-application/ushuaia-dcs/files/
```

```
# build image
```

```
cd ~/local_build/
```

```
. oe-init-build-env
cd ~/local_build/build/
MACHINE=amd-ryzen-gullfoss-rev01 bitbake zeiss-core-image-minimal
```

```
# build final image
mkdir -p ~/local_build/meta-zeiss-meditec/meta-zeiss-bsp/recipes-core/install-image/files/
cp
~/local_build/build/tmp/deploy/images/amd-ryzen-gullfoss-rev01/zeiss-core-image-minimal-*.ro
tfs.wic
~/local_build/meta-zeiss-meditec/meta-zeiss-bsp/recipes-core/install-image/files/image.wic
cd ~/local_build/build/
MACHINE=amd-ryzen-gullfoss-rev01 bitbake zeiss-ushuaia-flash-image
```

=====below sdk steps no need to Run=====

```
# build SDK
# to reduce size, create fake files for ushuaia application and DCS package
cd
~/local_build/meta-zeiss-meditec/meta-zeiss-proprietary/recipes-application/ushuaia-app/files/
rm -f Ushuaia_Yocto.zip
touch a b
zip Ushuaia_Yocto.zip a b
cd ~/local_build/meta-zeiss-meditec/meta-zeiss-proprietary/recipes-application/ushuaia-dcs/files/
rm -f dcs.tar.gz
touch dcs.tar.gz
```

```
cd ~/local_build/
. oe-init-build-env
cd ~/local_build/build/
MACHINE=amd-ryzen-gullfoss-rev01 bitbake zeiss-core-image-minimal -c populate_sdk
```