

MT816 Tool Chain User Guide

- Step 1 :

Extract “yocto-64bit-toolchain.tar.gz” in your local folder,

Such as “/proj/myaccount/MT8516-SDK”

```
[MT8516_SDK]$ ls
```

```
oecore-x86_64-aarch64-toolchain-nodistro.0.host.manifest
oecore-x86_64-aarch64-toolchain-nodistro.0.sh*
oecore-x86_64-aarch64-toolchain-nodistro.0.target.manifest
yocto-64bit-toolchain.tar.gz
```

- Step 2:

Run “oecore-x86_64-aarch64-toolchain-nodistro.0.sh” to install toolchain.

```
[MT8516_SDK]$ ./oecore-x86_64-aarch64-toolchain-nodistro.0.sh
```

```
Yocto GENIVI Baseline (Poky/meta-ivi) SDK installer version nodistro.0
=====
Enter target directory for SDK (default: /usr/local/oecore-x86_64):
```

Input target directory , such as “/proj/myaccount/MT8516-SDK”

```
Yocto GENIVI Baseline (Poky/meta-ivi) SDK installer version nodistro.0
=====
Enter target directory for SDK (default: /usr/local/oecore-x86_64): /proj/myaccount/MT8516-SDK
```

```
Extracting SDK.....done
Setting it up...done
```

- Step 3:

Configuration environment parameter.

You can run “environment-setup-aarch64-poky-linux” script to configuration environment. This script file is under the directory which you set in step 2.

```
[MT8516_SDK]$ source environment-setup-aarch64-poky-linux
```

- Step 4:

Now you can use this toolchain to compile your program

[MT8516_SDK]\$ vi test.c

Edit your test.c.

[MT8516_SDK]\$ \$CC test.c -o test

For environment variables, you can refer to “environment-setup-aarch64-poky-linux”

[MT8516_SDK]\$ vi environment-setup-aarch64-poky-linux

```
export CC="aarch64-poky-linux-gcc -mcpu=cortex-a72.cortex-a53+crypto -mtune=cortex-a72.cortex-a53 --sysroot=${SDKTARGETSYSROOT}"
export CXX="aarch64-poky-linux-g++ -mcpu=cortex-a72.cortex-a53+crypto -mtune=cortex-a72.cortex-a53 --sysroot=${SDKTARGETSYSROOT}"
export CPP="aarch64-poky-linux-gcc -E -mcpu=cortex-a72.cortex-a53+crypto -mtune=cortex-a72.cortex-a53 --sysroot=${SDKTARGETSYSROOT}"
export AS="aarch64-poky-linux-as"
export LD="aarch64-poky-linux-ld --sysroot=${SDKTARGETSYSROOT}"
export GDB="aarch64-poky-linux-gdb"
export STRIP="aarch64-poky-linux-strip"
export RANLIB="aarch64-poky-linux-ranlib"
export OBJCOPY="aarch64-poky-linux-objcopy"
export OBJDUMP="aarch64-poky-linux-objdump"
export AR="aarch64-poky-linux-ar"
export NM="aarch64-poky-linux-nm"
export M4=m4
```

... ..

- references

<https://gcc.gnu.org/onlinedocs/gcc/AArch64-Options.html#AArch64-Options>