



DWIN Linux LCD Screen (35 series) QT Cross-compile Configuration



1 Install Qt Creator.....	1
1.1 System Requirements.....	1
1.2 Download Qt Creator.....	1
1.3 Install Qt Creator.....	1
2 Set up the cross-compilation environment.....	5
2.1 Run the Qt Creator.....	5
2.2 Set up the cross-compilation environment.....	5
3 Compile Qt project	11
3.1 Open the project.....	11
3.2 Add environment variables	13
3.3 Run qmake	13
3.4 Build.....	15
Important Disclaimer	18

1 Install Qt Creator

1.1 System Requirements

This document is based on Ubuntu 14.04 system for verification. Other versions of Ubuntu systems should work but are not verified.

1.2 Download Qt Creator

The version of Qt Creator used in this document is 2.7.2. Please download the version that matches the operating system.

 source/	02-Jul-2013 19:43	-	
 qt-creator-windows-opensource-2.7.2.exe	02-Jul-2013 19:43	53M	Details
 qt-creator-mac-opensource-2.7.2.dmg	02-Jul-2013 19:43	53M	Details
 qt-creator-linux-x86_64-opensource-2.7.2.bin	02-Jul-2013 19:43	62M	Details
 qt-creator-linux-x86-opensource-2.7.2.bin	02-Jul-2013 19:43	63M	Details
 qt-creator-2.7.2-src.zip	02-Jul-2013 19:43	27M	Details
 qt-creator-2.7.2-src.tar.gz	02-Jul-2013 19:43	22M	Details

1.3 Install Qt Creator

Copy the installer to your Ubuntu system and add execute permissions to the file:

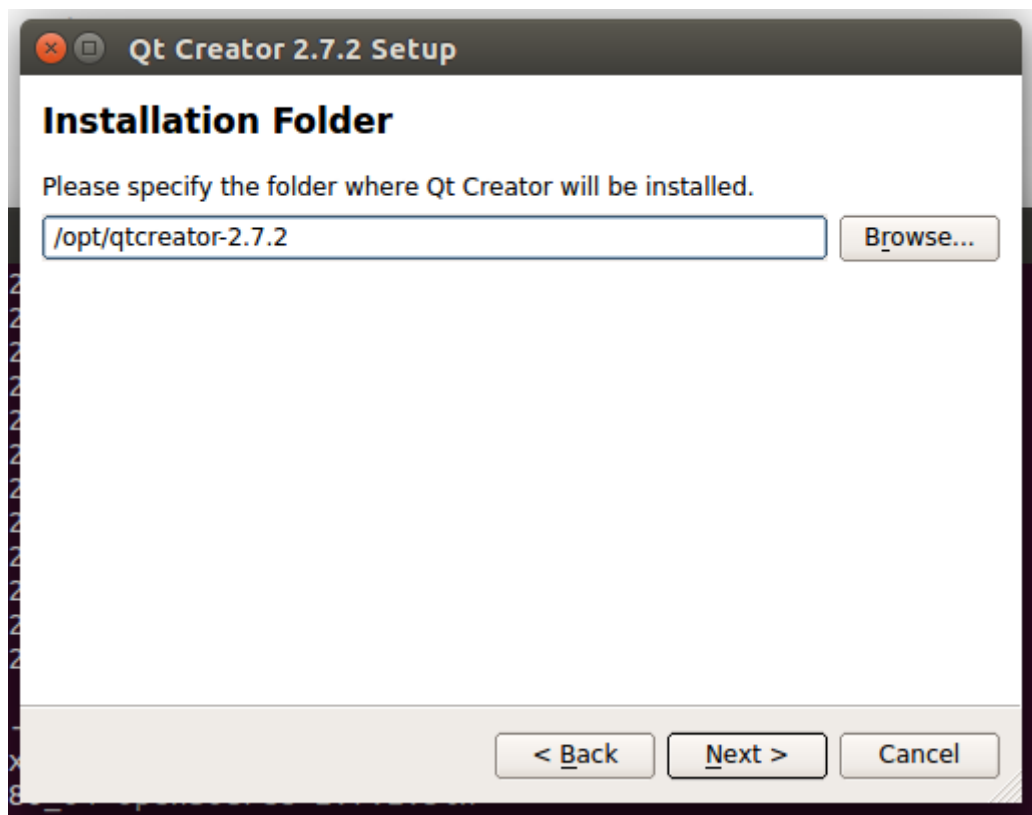
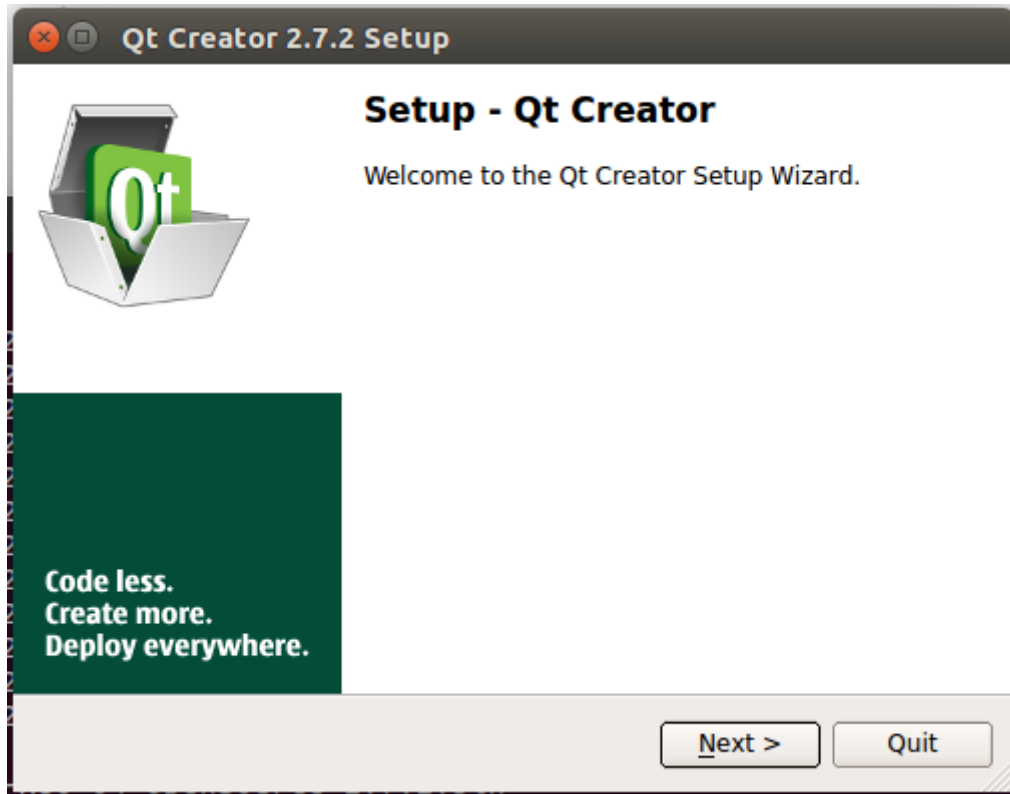
```
# chmod +x qt-creator-linux-x86_64-opensource-2.7.2.bin
```

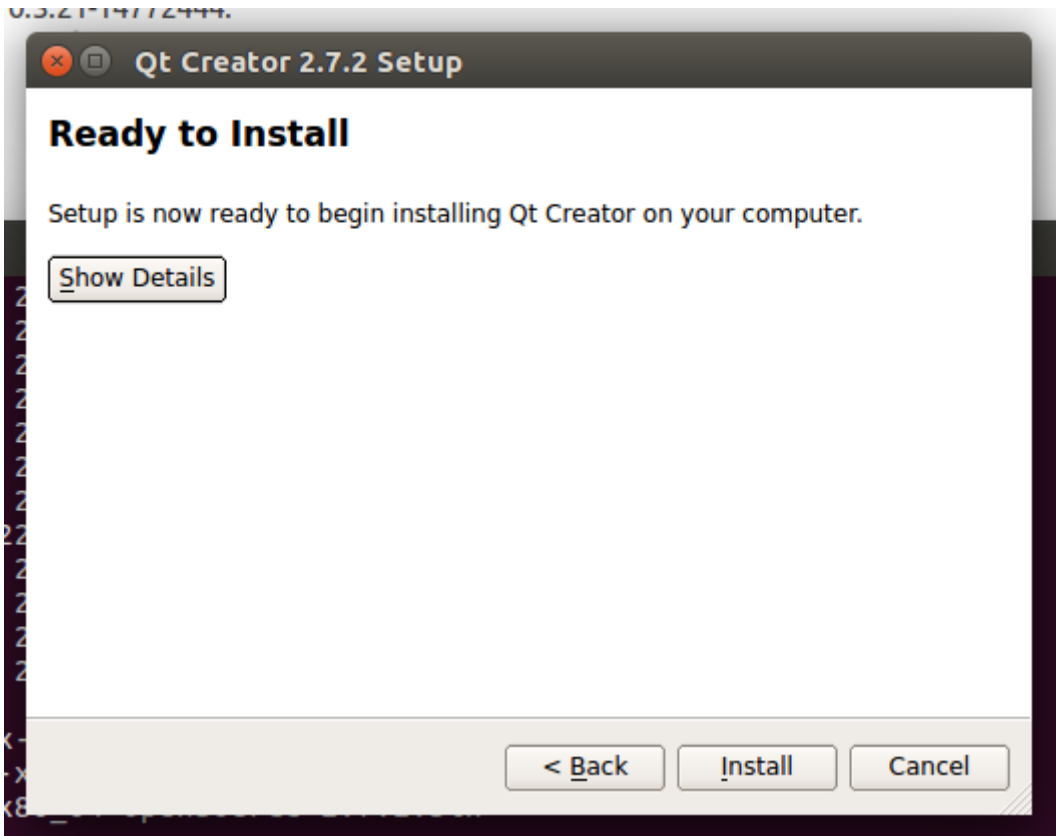
```
dwinvm@ubuntu:~$ chmod +x qt-creator-linux-x86_64-opensource-2.7.2.bin
```

Run the installer

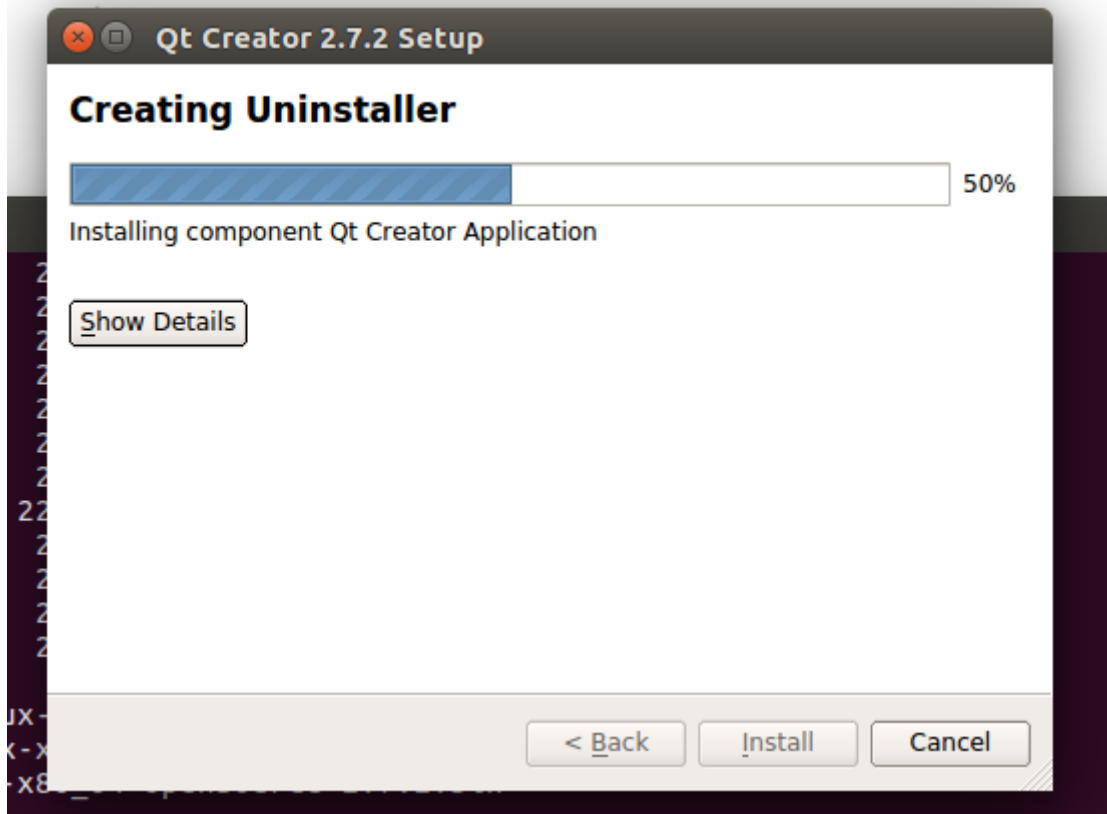
```
# sudo ./qt-creator-linux-x86_64-opensource-2.7.2.bin
```

Click the “Next”:





10.3.21-14772444.



10.3.21-14772444.

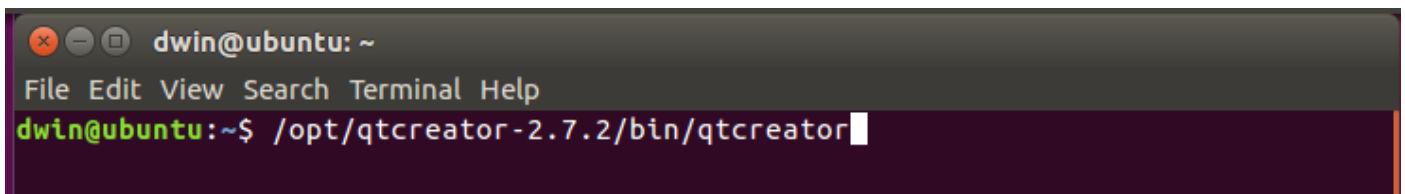


2 Set up the cross-compilation environment

2.1 Run the Qt Creator

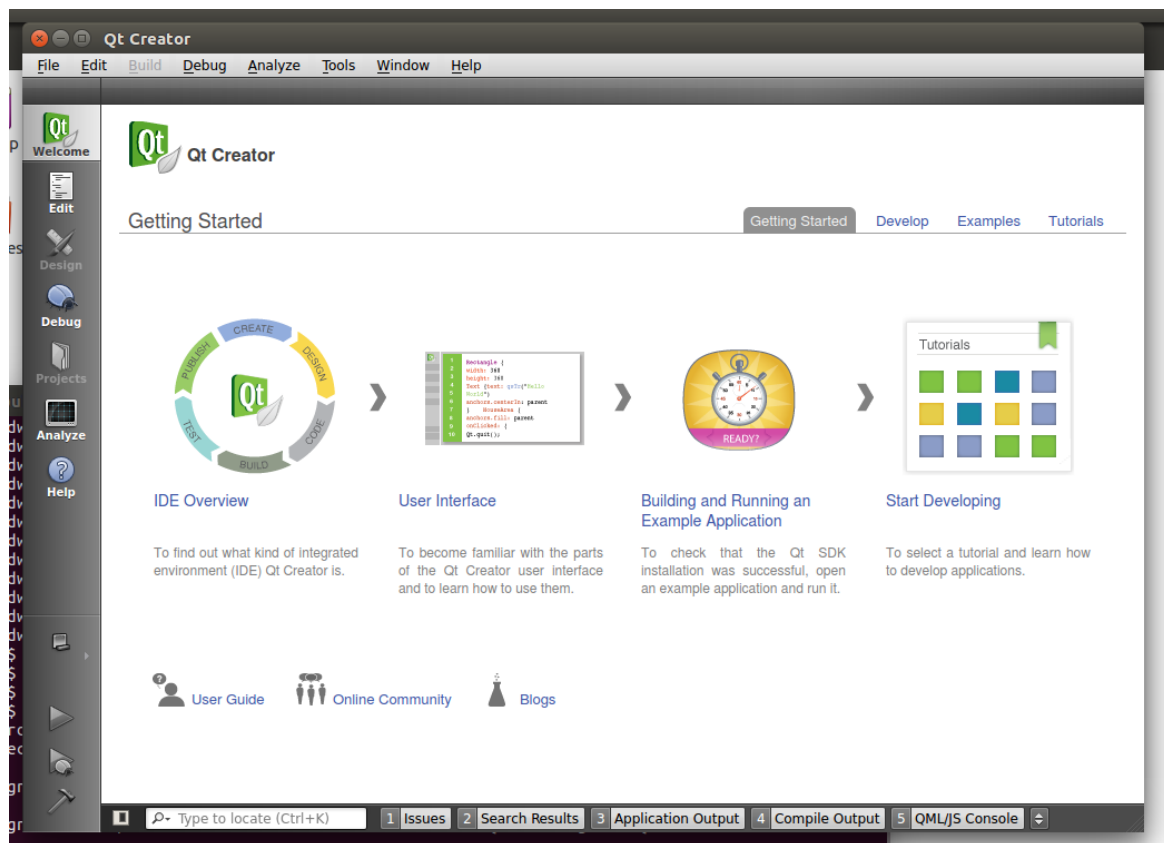
The Qt Creator executable file is in the bin directory of the installation directory.

```
# /opt/qtcreator-2.7.2/bin/qtcreator
```



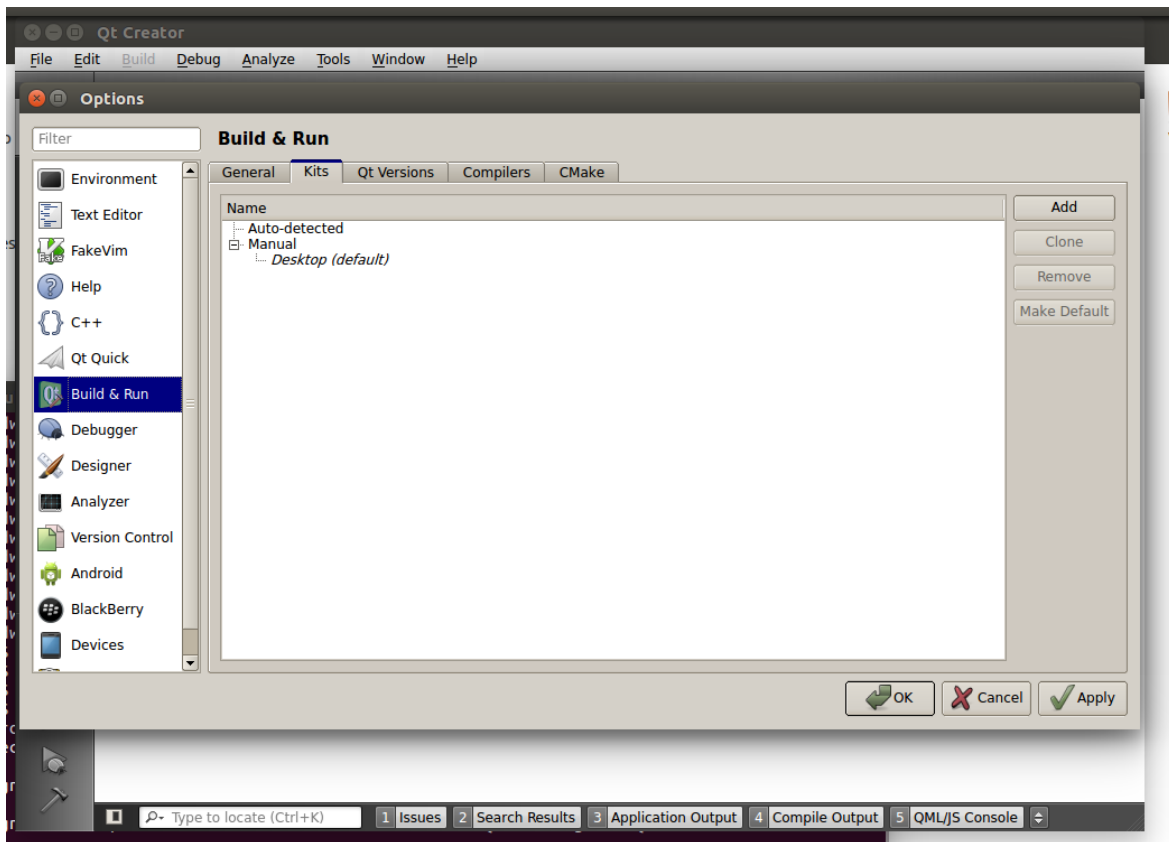
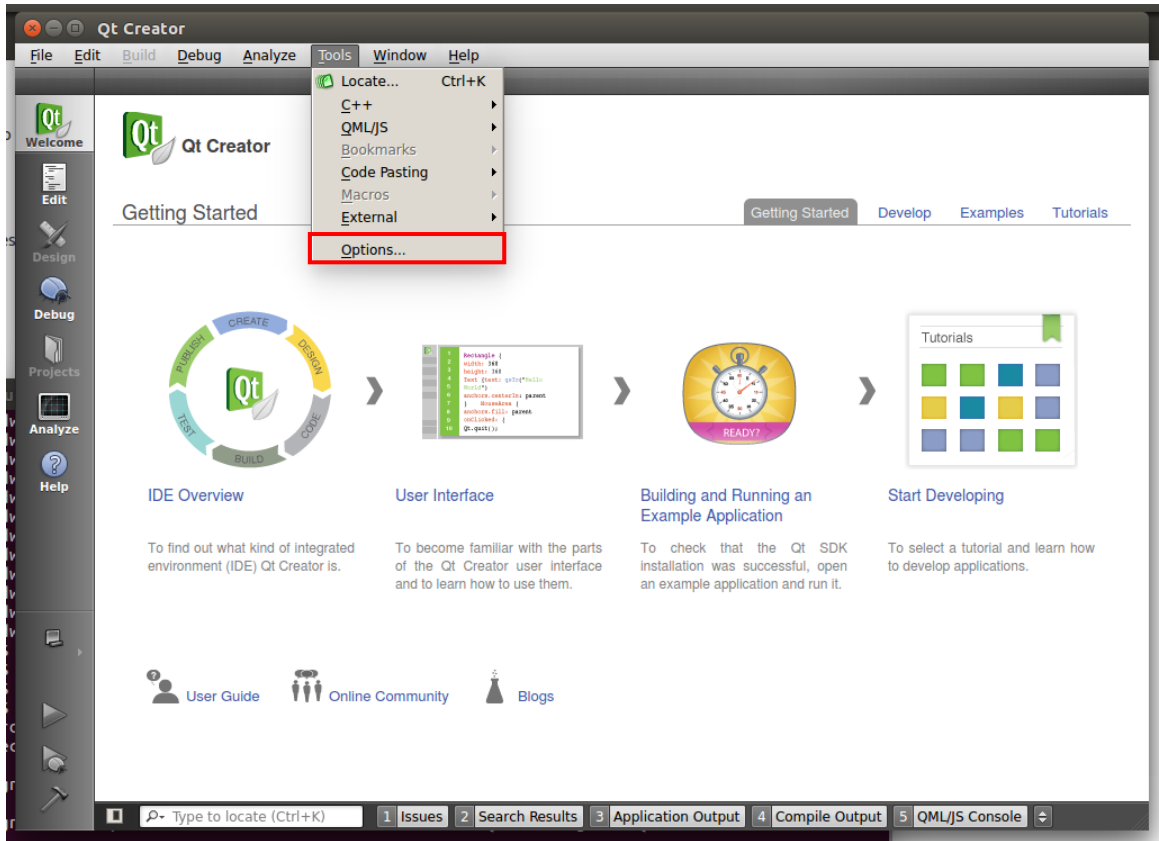
```
dwinn@ubuntu: ~  
File Edit View Search Terminal Help  
dwinn@ubuntu:~$ /opt/qtcreator-2.7.2/bin/qtcreator
```

The interface of software is as below.



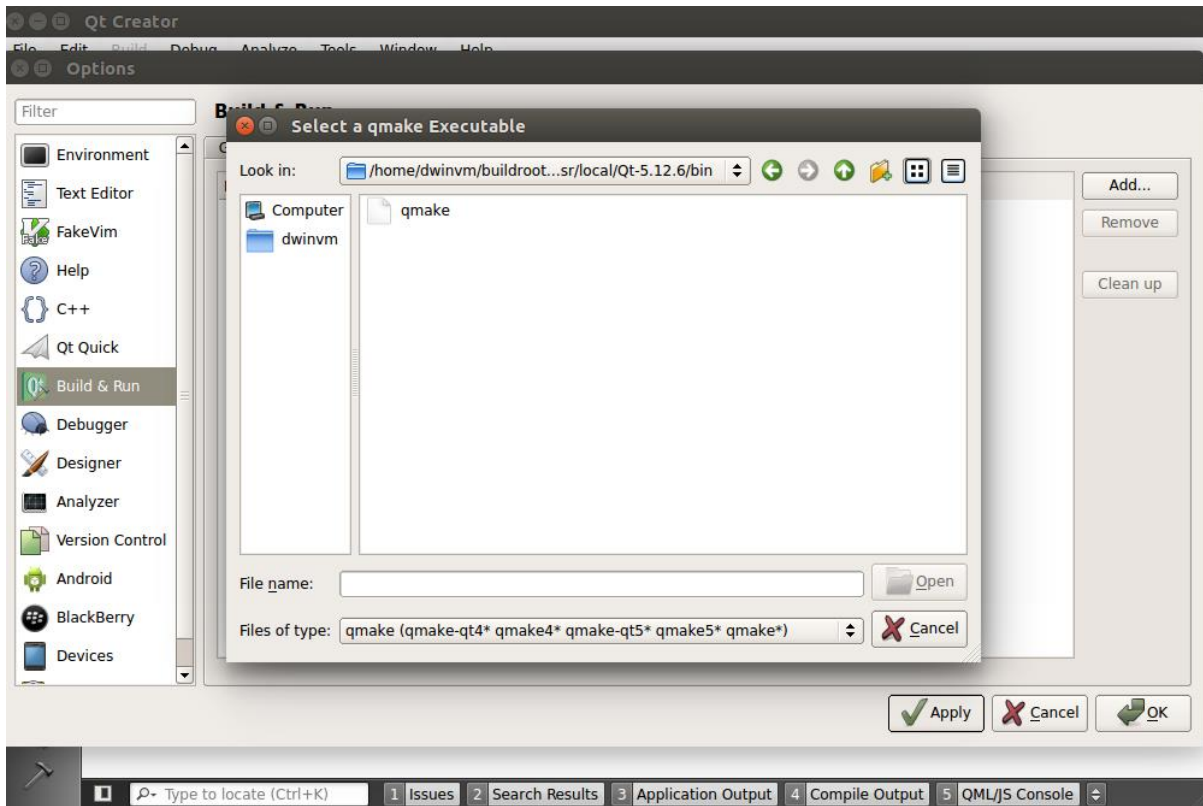
2.2 Set up the cross-compilation environment

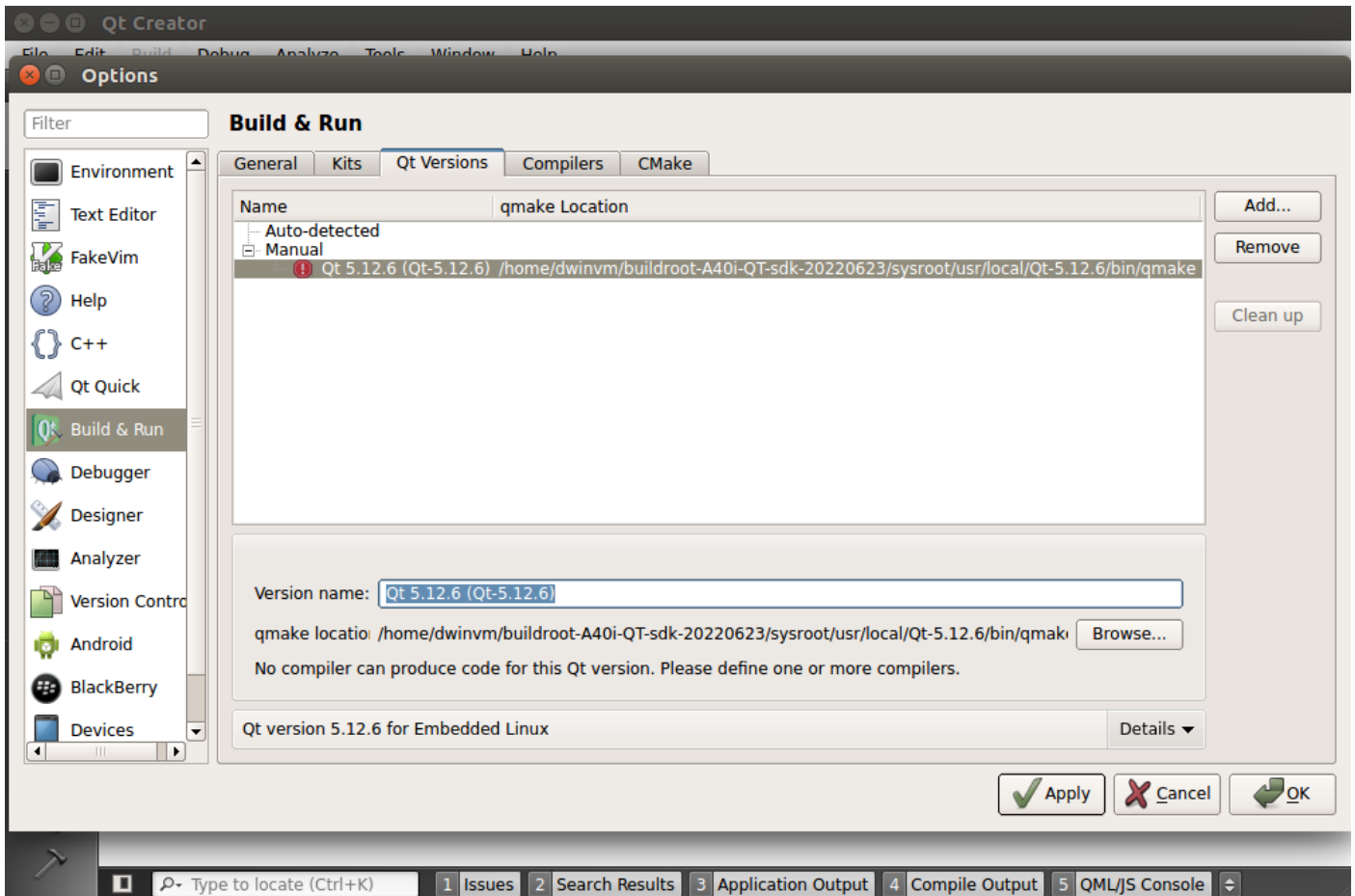
Choose [tool] – [options] as below.



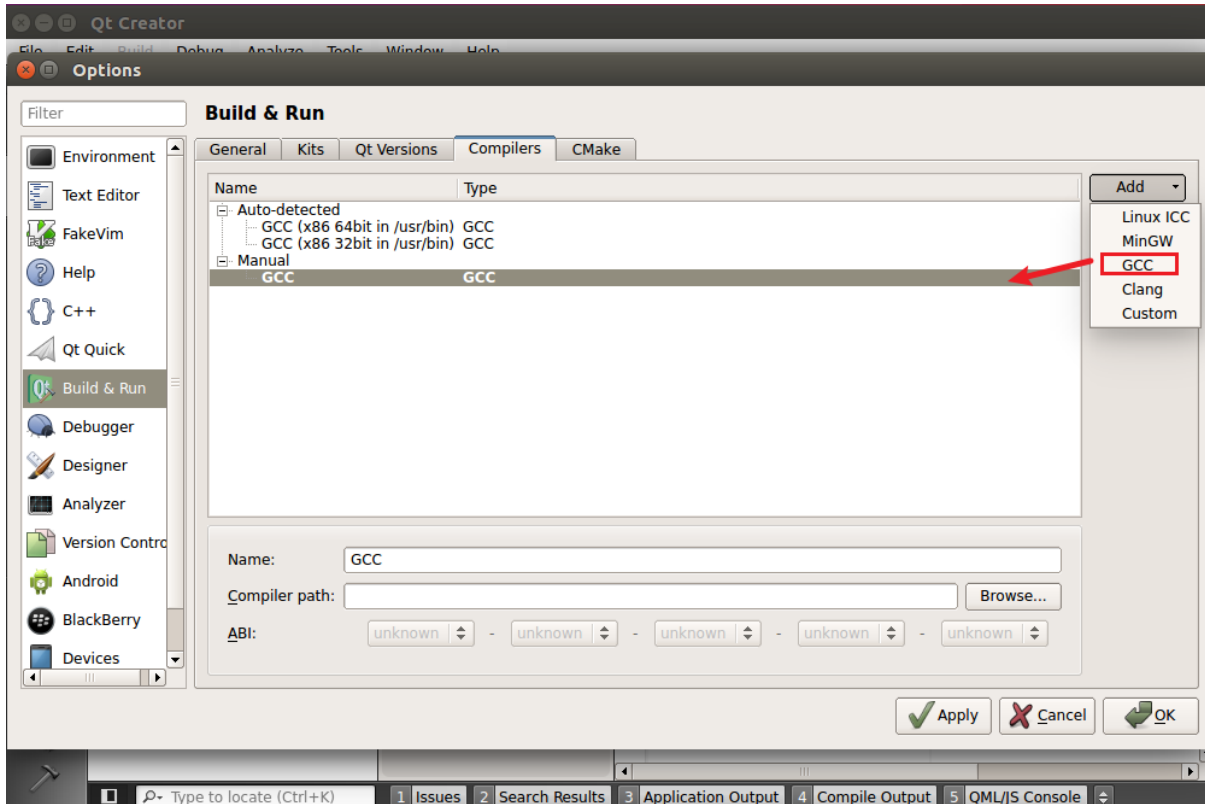
Set qmake: choose [Build & Run] – [Qt Version] – [Add],

“qmake” is in the ‘sysroot/usr/local/Qt-5.12.6/bin/’ directory of buildroot-A40i-Qt-sdk-20220623.tar.gz

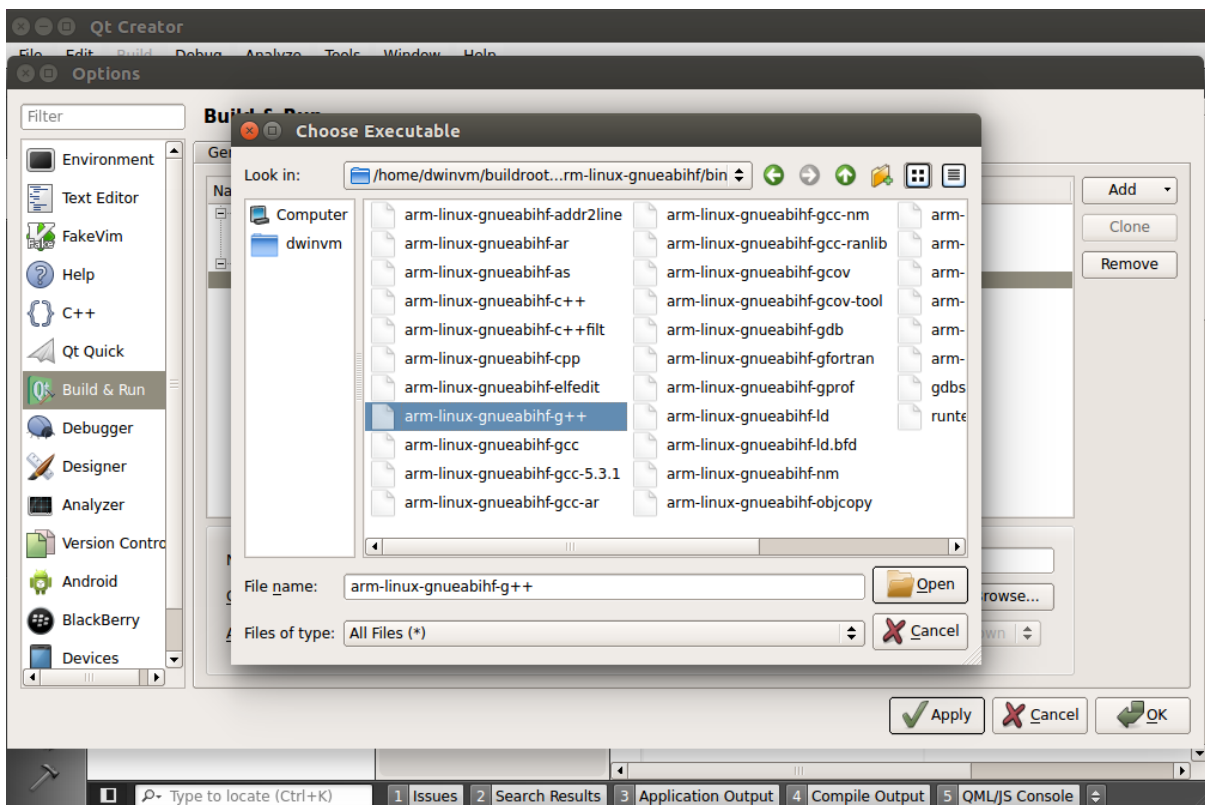


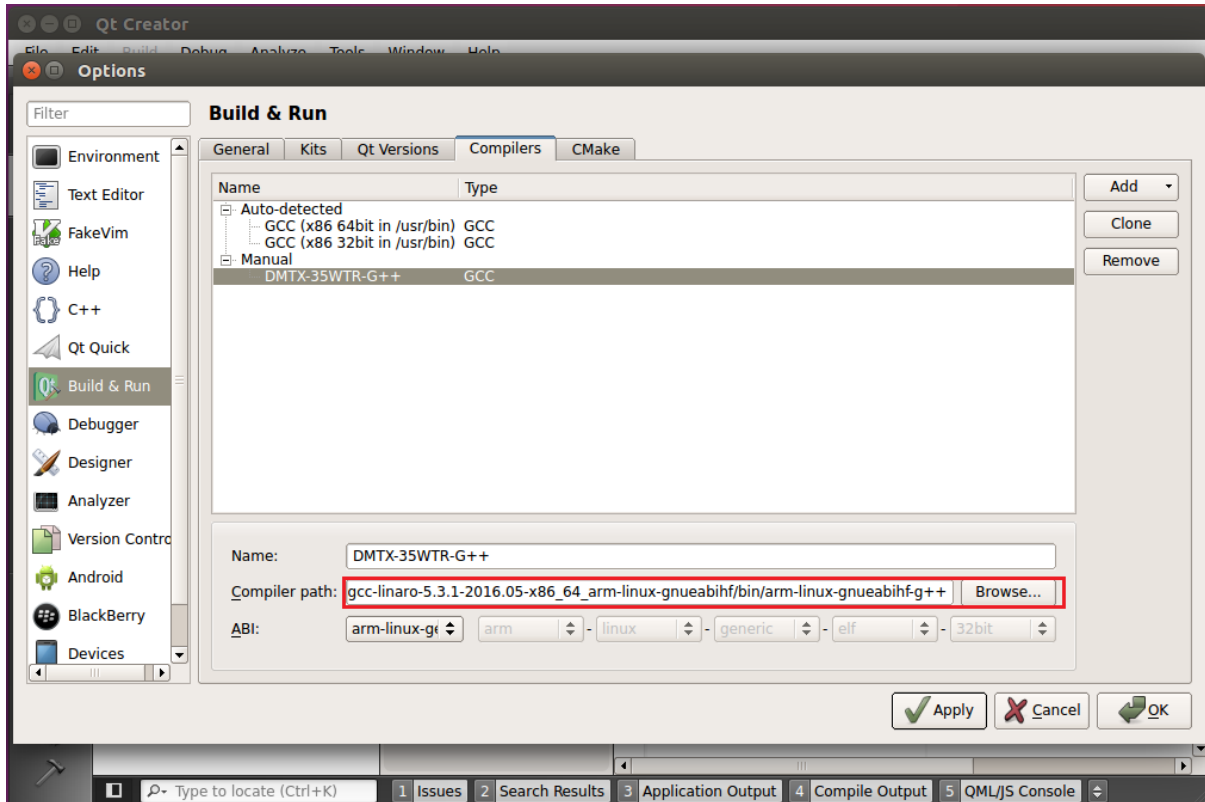


Set compilation toolchain: choose [Build & Run] – [Compilers] – [Add] – [GCC]:

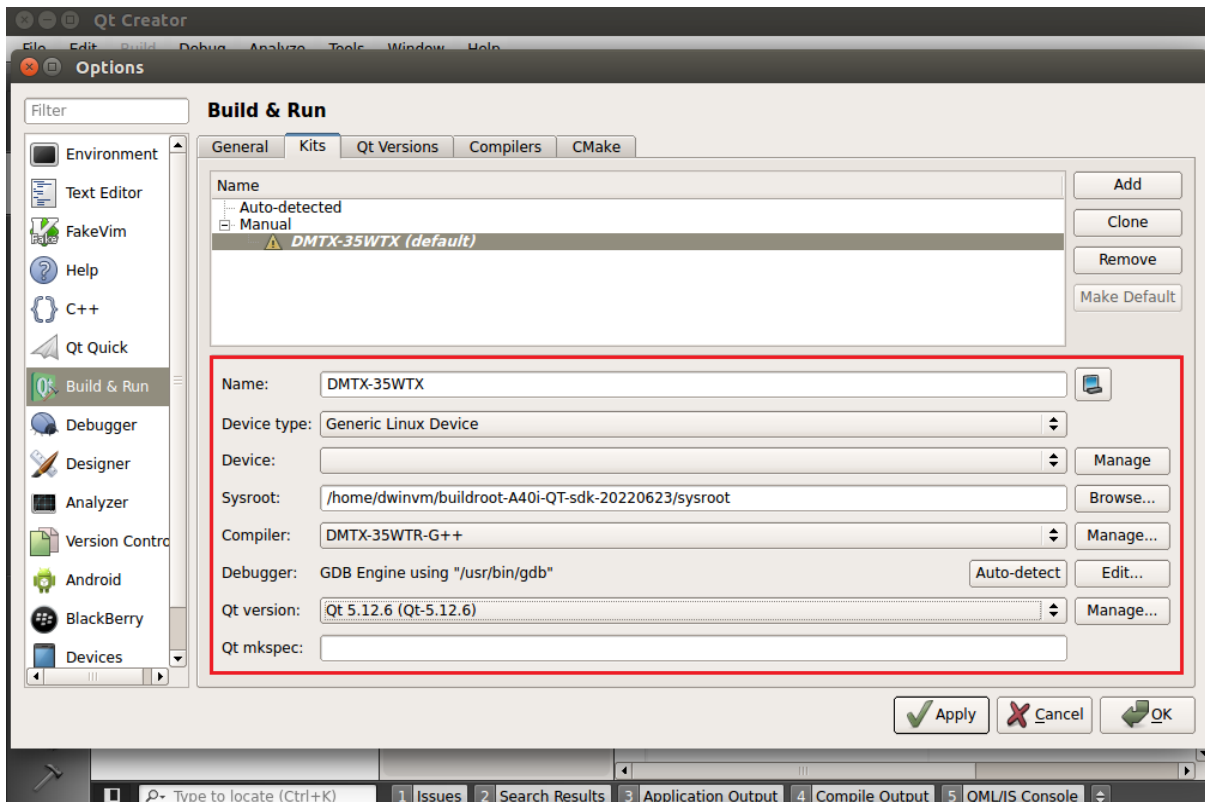


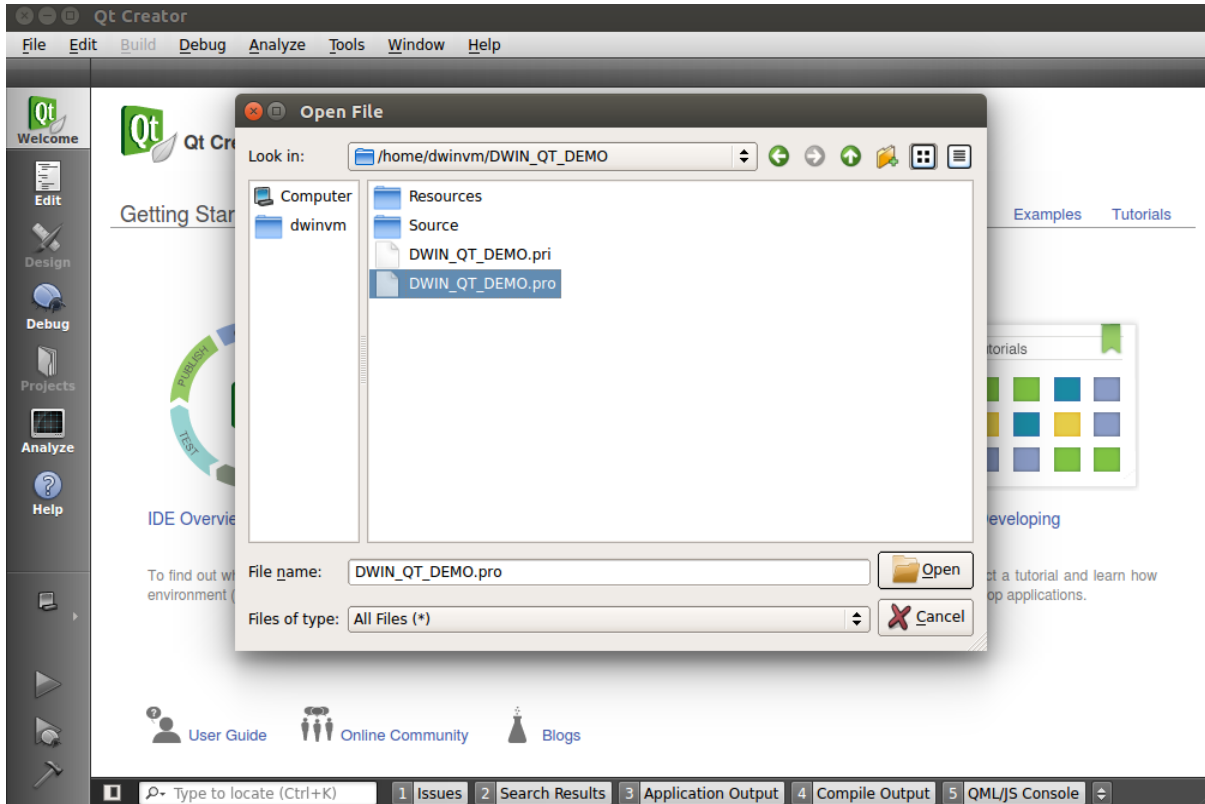
The compiler is located in the 'gcc-linaro-5.3.1-2016.05-x86_64_arm-linux-gnueabi/h/bin' directory of the 'buildroot-A40i-QT-sdk-20220623.tar.gz' package.



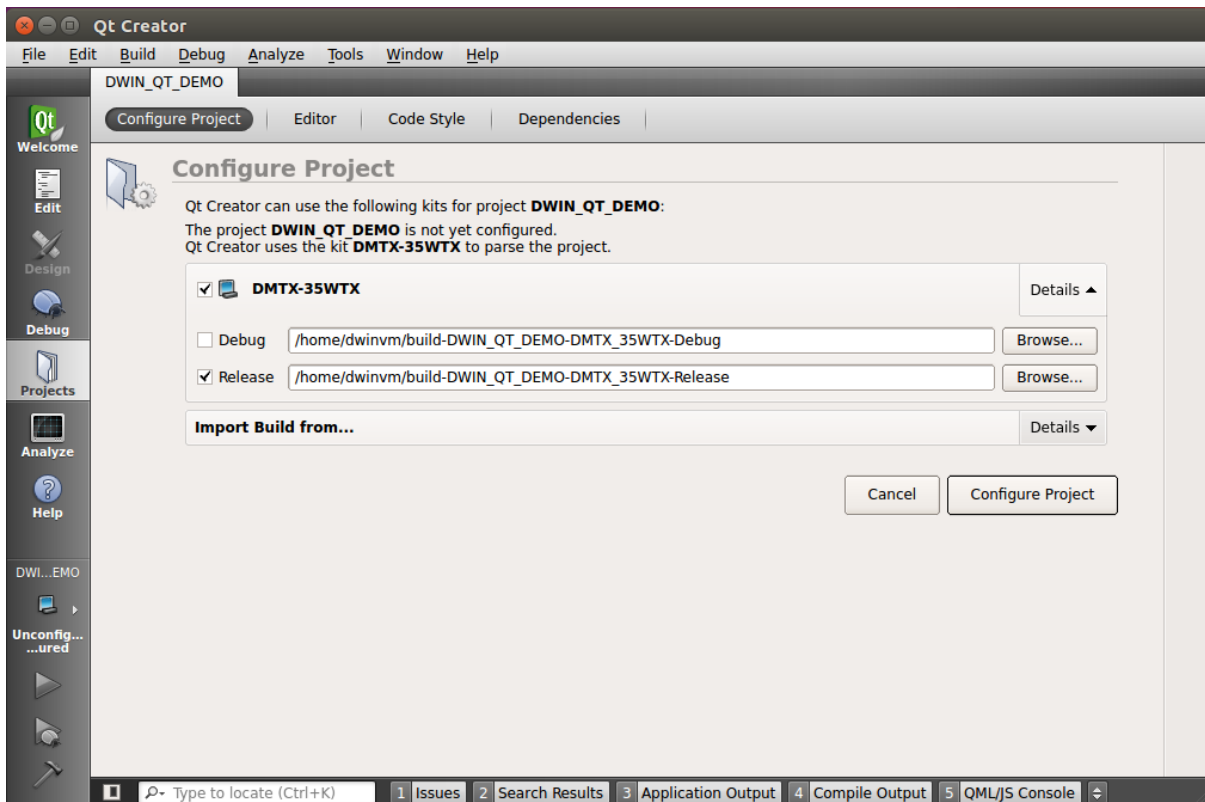


Set up the build kit: choose [Build & Run] – [Kits]:





Configure the project:

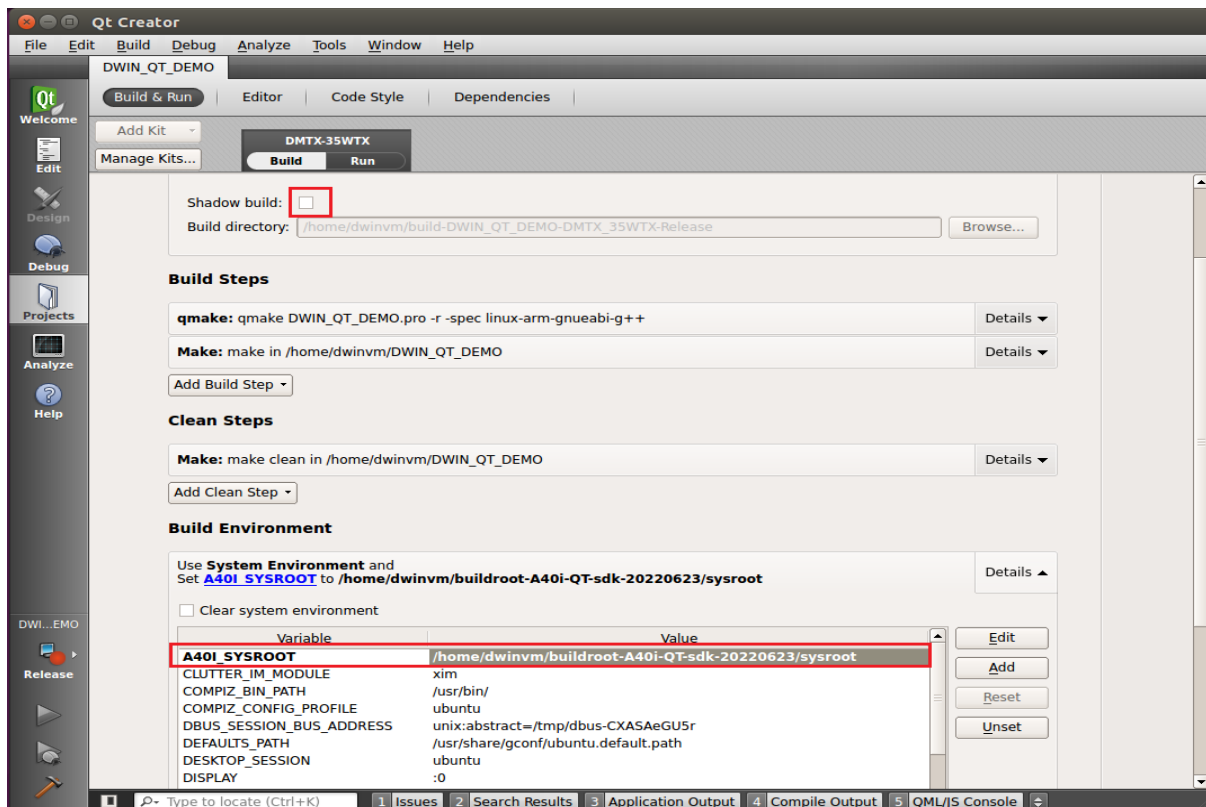


3.2 Add environment variables

Go to [Projects] – [Build & Run] - [Build Environment], and add a variable:

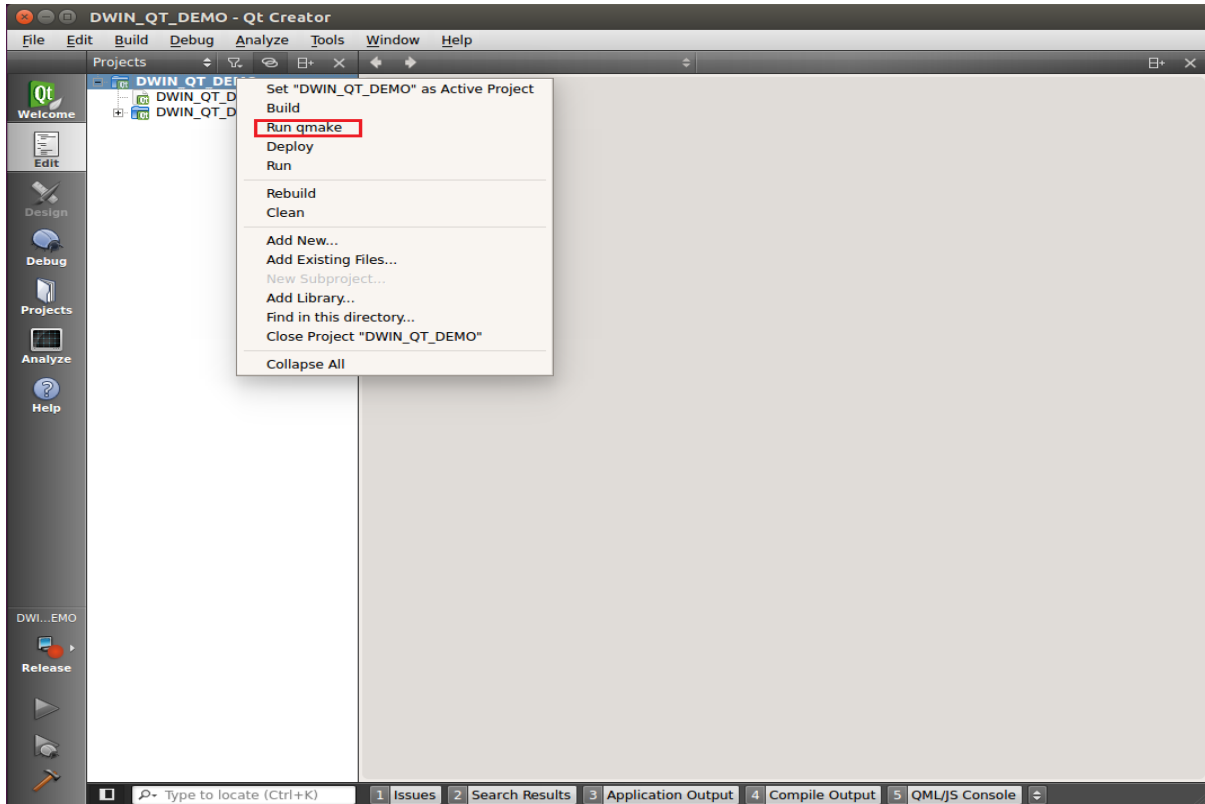
Variable Name: A40I_SYSROOT

Value: 'sysroot' directory of the 'buildroot-A40i-QT-sdk-20220623.tar.gz' package

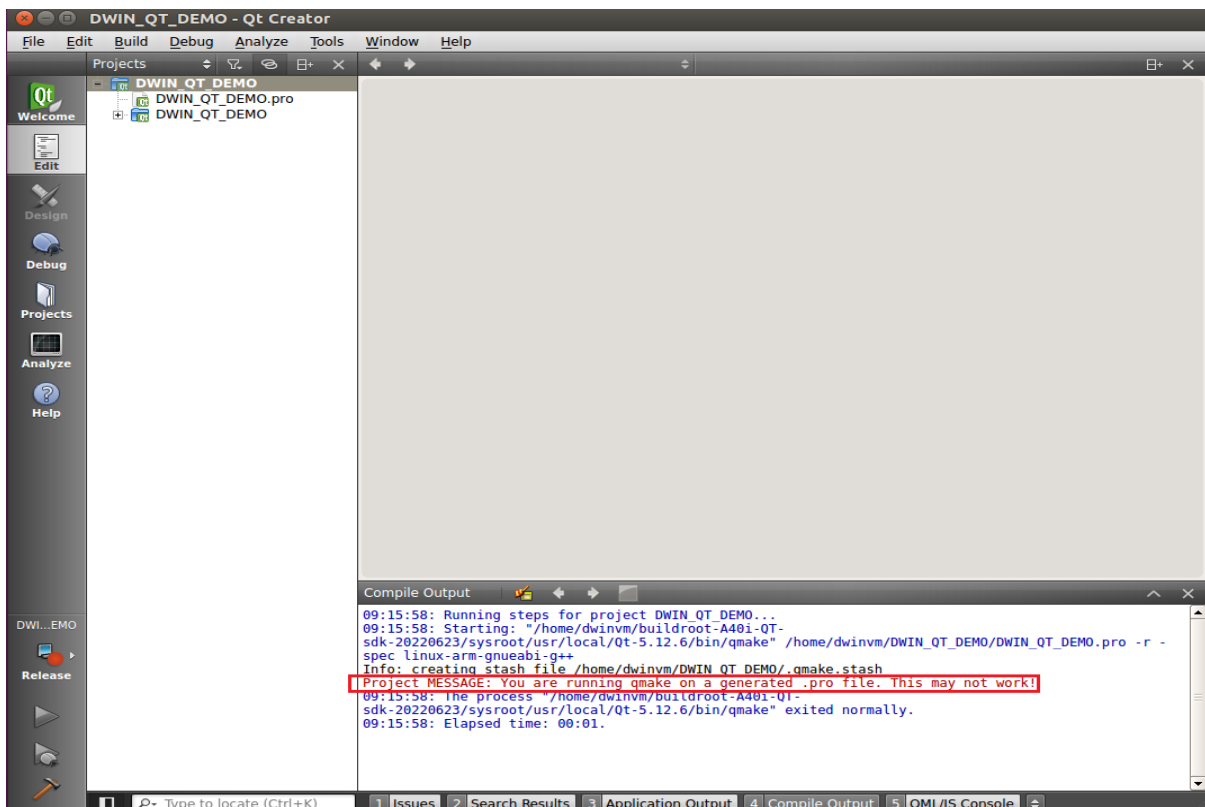


3.3 Run qmake

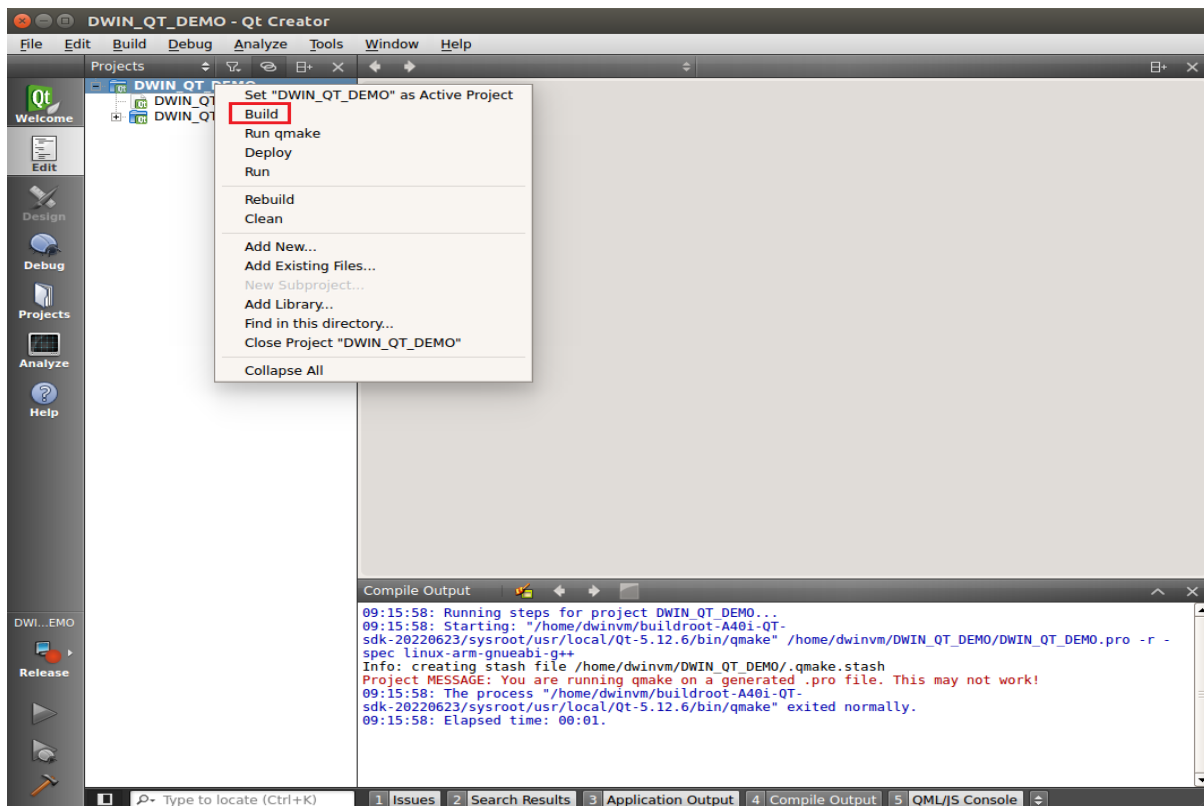
Choose project, 'right key' – run qmake



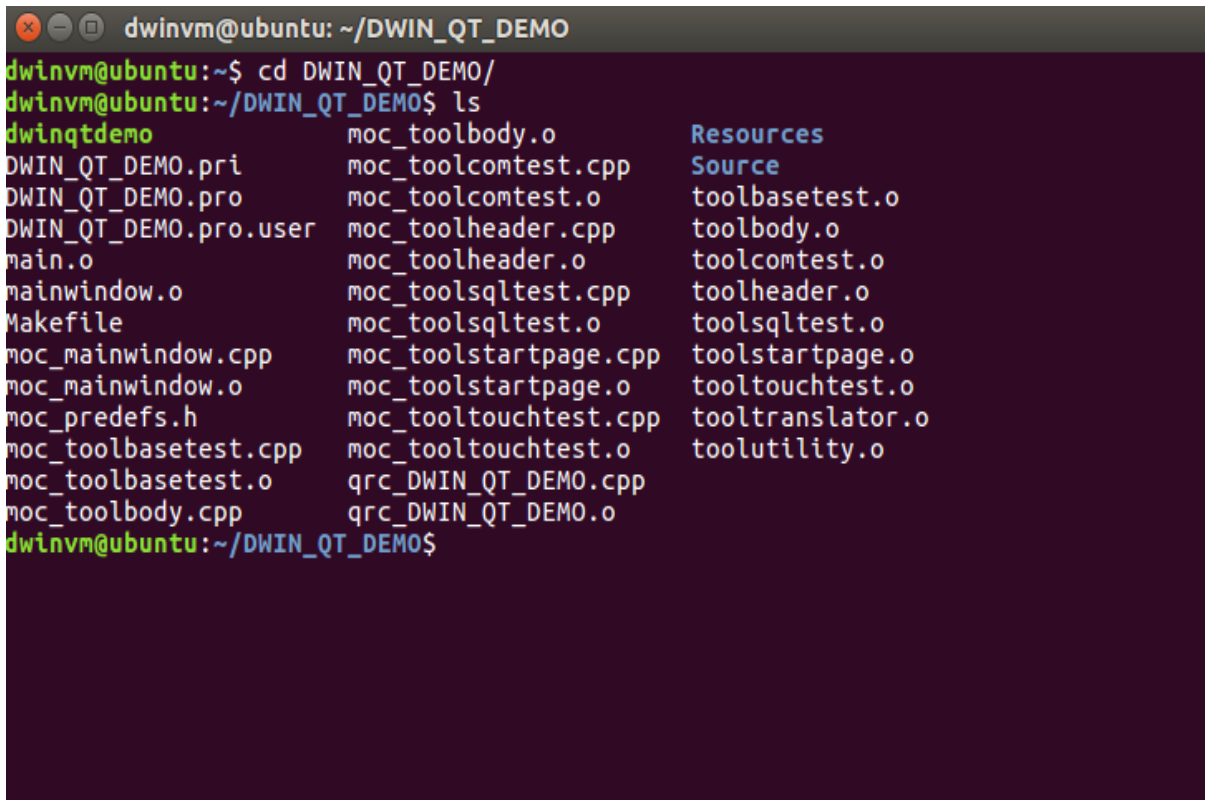
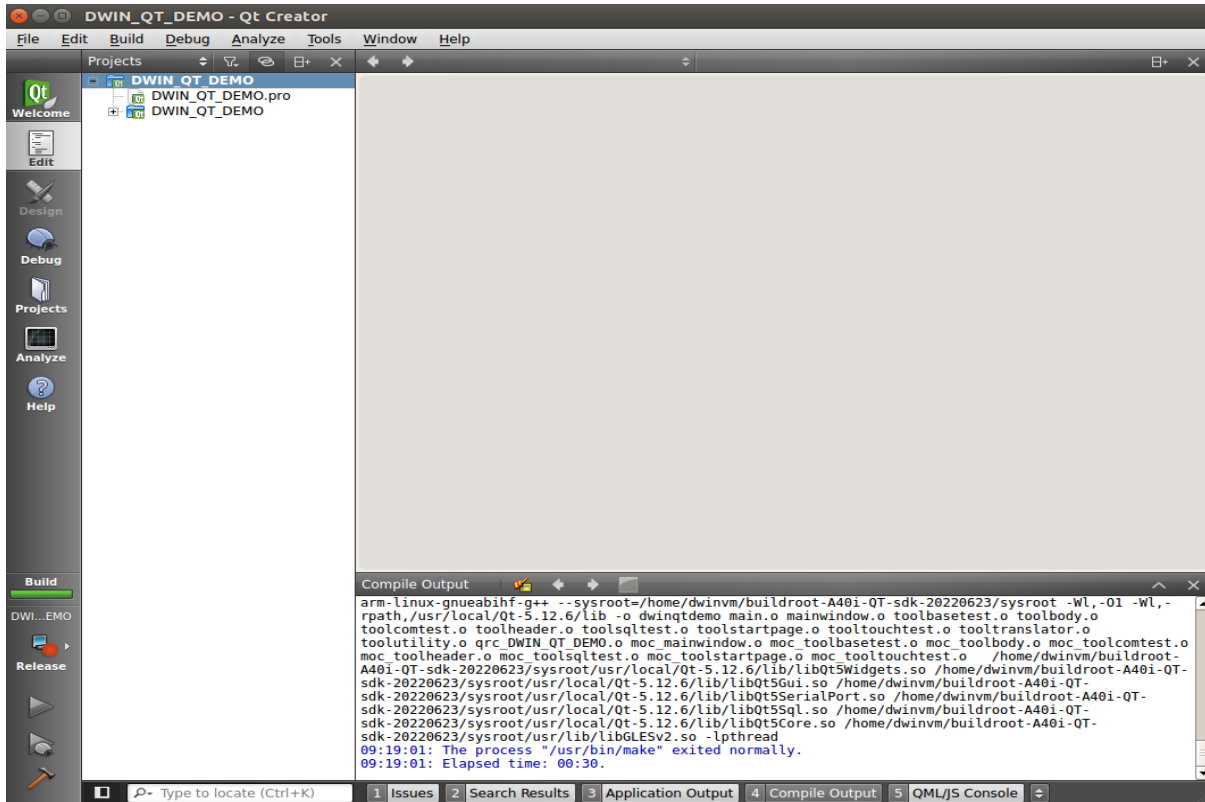
When qmake is successful, it looks like the image below (the red part is the printout of DWIN_QT_DEMO.pro, which does not affect).



3.4 Build



At this point, the target files have been generated in the project directory and can be copied to the screen for execution.





Revision Records

Rev	Revise Date	Content	Editor
00	2023-06-08	First Edition	Zheng Jianxin

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

Customer service Tel: +86-400-018-9008

Customer service email: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: <https://forums.dwin-global.com/index.php/forums>

Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!



Important Disclaimer

DWIN reserves the right to make any changes to product designs without prior notice.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions.

DWIN shall not bear any joint and several liability for any consequences that may arise from customers' adoption of DWIN products. In particular, for risks that may lead to significant property losses, environmental hazards, personal injury, or even death, especially in high-risk application areas such as military applications, flammable and explosive places, and life-saving medical equipment, customers should independently assess the risks and take corresponding preventive and protective measures. DWIN shall not bear any relevant responsibility.