

## **Advantech AE Technical Share Document**

Date	2015 / 04 / 17	SR#	
Category	■ FAQ □ SOP	Related OS	AdvLinux/ CentOS6.6
Abstract	How to Setup QT Development Env and Run Application Under AdvLinux of WOP-3000T		
Keyword	WOP/ WebOP/ QT/ AdvLinux	ſ	
<b>Related Product</b>	WOP-3000T Series		

## Problem Description:

How to Setup QT Development Env and Run Application Under AdvLinux of WOP-3000T.

## Brief Solution - Step by Step:

## **Development Environment Example:**

UNO-3084 + CentOS6.6 + adv-am3517-devkit (please contact WOP AE to get adv-am3517-devkit)

Once you un-compress the adv-am3517-devkit under Linux, please install with command "./install.sh" If the installation has done, you might check /usr/local/bin/ if it looks same as following screenshot.

InootanDUNTIECH adv-am3517-devkit) IrootanDUNTIECH adv-am3517-devkit) IrootanDUNTIECH adv-am3517-devkit) IrootanDUNTIECH adv-am3517-devkit) IrootanDUNTIECH adv-am3517-devkit) IrootanDUNTIECH adv-am3517-devkit) ===fuluantech Embedded Linux Develop Installing dome	# # # # 1s nt-setup exemples	tik skapecs bern unin liberen READTE site-coufig unin Product==
Eroot9ADUNMTECH adv-am3517-devkit1 Eroot9ADUNMTECH adv-am3517-devkit1 Eroot9ADUNMTECH adv-am3517-devkit1	LS AUSBIN	
Iroot000UNTECH adv-am3517-devkit) adv-qt-make arm-arago-linux-gnueabi-addr2line urm-arago-linux-gnueabi-ar arm-arago-linux-gnueabi-c+filt arm-arago-linux-gnueabi-cpp arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arm-arago-linux-gnueabi-gcc arago-arago-linux-gnueabi-gcc arago-arago-linux-gnueabi-gcc arago-arago-linux-gnueabi-gcc arago-arag	Is /usr/local/bin/ arm-arago-linux-gnucabi-gdb arm-arago-linux-gnucabi-gdb arm-arago-linux-gnucabi-gdbtui arm-arago-linux-gnucabi-ld arm-arago-linux-gnucabi-nm arm-arago-linux-gnucabi-nm arm-arago-linux-gnucabi-objdung arm-arago-linux-gnucabi-cbjdung arm-arago-linux-gnucabi-cbjdung arm-arago-linux-gnucabi-cbjdung arm-arago-linux-gnucabi-cbjdung	arm-arago-linux-gnucabi-readeif arm-arago-linux-gnucabi-run arm-arago-linux-gnucabi-size arm-arago-linux-gnucabi-strings arm-arago-linux-gnucabi-strip kit_path quakeE

Now we use example of tutorial on website -- Widgets Tutorial - Creating a Window :

https://www.ics.com/files/qtdocs/tutorials-widgets-toplevel.html

**ADVANTECH** 

Enabling an Intelligent Planet

Create main.cpp file with following content:

#include <QtGui>

```
int main(int argc, char *argv[])
{
    QApplication app(argc, argv);
    QWidget window;
    window.resize(320, 240);
    window.show();
    window.setWindowTitle(
        QApplication::translate("toplevel", "Top-level widget"));
    return app.exec();
}
```

Create toplevel.pro with following content:

```
SOURCES = main.cpp

# install

target.path = $$[QT_INSTALL_EXAMPLES]/tutorials/widgets/toplevel

sources.files = $$SOURCES $$HEADERS $$RESOURCES $$FORMS toplevel.pro

sources.path = $$[QT_INSTALL_EXAMPLES]/tutorials/widgets/toplevel

INSTALLS += target sources
```

Under your development environment, use adv-qt-make to compile, as following screenshot, we could get binary file **toplevel** 

```
[root@localhost nick]# vi main.cpp
[root@localhost nick] # vi toplevel.pro
[root@localhost nick] # adv-gt-make
/home/adv-am3517-devkit
arm-arago-linux-gnueabi-g++ -c -pipe    -Wall -W -D REENTRANT -DQT NO DEBUG -DQT GUI LIB -DQT C
go-linux-gnueabi/usr/share/qtopia/mkspecs/linux-g++ -I. -I/home/adv-am3517-devkit/arm-arago-li
am3517-devkit/arm-arago-linux-gnueabi/usr/include/qtopia/QtGui -I/home/adv-am3517-devkit/arm-a
o main.cpp
arm-arago-linux-gnueabi-g++ -L/linux-devkit/arm-arago-linux-gnueabi/usr/lib -Wl,-rpath-link,/l
 -Wl,--hash-style=gnu -Wl,-rpath-link,/home/adv-am3517-devkit/arm-arago-linux-gnueabi/usr/lib
rm-arago-linux-gnueabi/usr/lib -lQtGuiE -lQtNetworkE -lQtCoreE -lpthread
/home/adv-am3517-devkit/bin/../lib/gcc/arm-arago-linux-gnueabi/4.5.3/../../../../arm-arago-lin
libpthread.so.0 when searching for ../../lib/libpthread.so.0
/home/adv-am3517-devkit/bin/../lib/gcc/arm-arago-linux-gnueabi/4.5.3/../../../../arm-arago-lin
libc.so.6 when searching for ../../lib/libc.so.6
[root@localhost nick] # 1s
main.cpp main.o Makefile toplevel toplevel.pro
```

Then, copy toplevel to WOP-3000T by USB storage device.



Run it by execute binary file directly with parameter -qws

Ex. [root@localhost /]# ./toplevel –qws

The tutorial application will show up on your Linux.



Reference:

N/A