**CROSS\_COMPILING QT**

**Prerequasites:**

**\*** Cross compiled tool chain builded with c++ support for target

**\*** Cross compiled tslib & zlib for target

**Downloading qt-4.8.5:**

[root@linux](mailto:root@linux): mkdir /usr/local/mini2440/qt-4.8.5

[root@linux](mailto:root@linux): mkdir /usr/local/mini2440/qt-4.8.5/build

[root@linux](mailto:root@linux): cd /usr/local/mini2440/qt-4.8.5

[root@linux](mailto:root@linux): qt-4.8.5# ***wget download.qt-project.org/official\_releases/qt/4.8/4.8.5/qt-everywhere-opensource-src-4.8.5.tar.gz***

[root@linux](mailto:root@linux): qt-4.8.5# **tar xvf *qt-everywhere-opensource-src-4.8.5.tar.gz***

[root@linux](mailto:root@linux): qt-4.8.5# cd *qt-everywhere-opensource-src-4.8.5*

[*root@linux*](mailto:root@linux)*: qt-everywhere-opensource-src-4.8.5#*

***Modifing mkspecs:***

[*root@linux*](mailto:root@linux)*: qt-everywhere-opensource-src-4.8.5#* ***vi mkspecs/qws/linux-arm-g++/qmake.conf***

[*root@linux*](mailto:root@linux)*: qt-everywhere-opensource-src-4.8.5#*

***modify as follows: “***

***#***

***# qmake configuration for building with arm-linux-g++***

***#***

***include(../../common/linux.conf)***

***include(../../common/gcc-base-unix.conf)***

***include(../../common/g++-unix.conf)***

***include(../../common/qws.conf)***

***# Here in QMAKE\_CC like variables you shud give the Cross compiled toolchain for target.***

***# or We can mention Entire path where the target toolchain has intalled, if the path is not exported.***

***# Example: QMAKE\_CC = /embedd/mini2440/Toolchain/buildroot- 2014.03/output/host/usr/bin/arm-linux-gcc***

***QMAKE\_CC = arm-linux-gcc***

***QMAKE\_CXX = arm-linux-g++***

***QMAKE\_LINK = arm-linux-g++***

***QMAKE\_LINK\_SHLIB = arm-linux-g++***

***QMAKE\_AR = arm-linux-ar cqs***

***QMAKE\_OBJCOPY = arm-linux-objcopy***

***QMAKE\_STRIP = arm-linux-strip***

***# Give the path to installed tslib build directory, Otherwise tslib test failed error thrown.***

***QMAKE\_INCDIR += /usr/local/mini2440/tslib/build/include***

***QMAKE\_LIBDIR += /usr/local/mini2440/tslib/tslib/build/lib***

***#To reduce ld type of errors; like undefined reference to ts\_open, ts\_close***

***QMAKE\_LFLAGS += -Wl,-rpath-link=/usr/local/mini2440/tslib/kergoth/tslib/build/lib***

***load(qt\_config)***

***”***

[root@linux](mailto:root@linux): *qt-everywhere-opensource-src-4.8.5#* ***./configure -embedded arm -xplatform qws/linux-arm-g++ -prefix /usr/local/mini2440/qt-4.8.5/build -qt-mouse-tslib -little-endian***

*Here*

***prefix = path where to install qt-4.8.5 cross compiled stuff***

***xplatform = the modified mkspecs as per target specifications***

You can add **-static** and it compiled just fine, but created 2.4GB of statically compiled libraries & binaries. So you can skip **-static** unless you know what you're doing.

*It will take around* ***20-30*** *miniutes. It will endup in creating a Makefile for given target specs.*

[root@linux](mailto:root@linux): *qt-everywhere-opensource-src-4.8.5#* ***make -j4***

[root@linux](mailto:root@linux): *qt-everywhere-opensource-src-4.8.5#* ***make install***

*It will take around 30-45 minutes again. Be patience.*