**CREATING\_QTROOTFS**

**Prerequasites:**

**\*** Normally built working rootfs.

**\*** Cross compiled tslib, zlib & qt-4.8.5

**\*** Kernel image <**uImage**> shud be compiled with touch-screen support.

**Baking qtfs-4.8.5:**

**<**Make sure that host built path and copying path to target rootfs shud match**>**

[root@linux](mailto:root@linux): mkdir /nfs/qtfs-4.8.5

[root@linux](mailto:root@linux): cp -Rfp /path/to/normal/rootfs/\* /nfs/qtfs-4.8.5/

[root@linux](mailto:root@linux): mkdir /nfs/qtfs-4.8.5/usr/local

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

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

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

[root@linux](mailto:root@linux): cp -Rfp /path/to/cross-compiled/tslib/build /nfs/qtfs-4.8.5/usr/local/mini2440/tslib/

[root@linux](mailto:root@linux): cp -Rfp /path/to/cross-compiled/qt-4.8.5/build /nfs/qtfs-4.8.5/usr/local/mini2440/qt-4.8.5/

**Creating symbolic links: <instead you can use direct copy>**

[root@linux](mailto:root@linux): ln -s /usr/local/mini2440/tslib/build/lib/libts-1.0.so.0 /nfs/qtfs-4.8.5/lib/

[root@linux](mailto:root@linux): ln -s /usr/local/mini2440/tslib/build/lib/libz.so.1 /nfs/qtfs-4.8.5/lib/

**Setting TSLIB, QWS environment variables**:

[root@linux](mailto:root@linux): vi /nfs/qtfs-4.8.5/etc/profile

**“**

**echo 1 > /sys/devices/platform/s3c24xx\_led.5/leds/backlight/brightness**

**chmod +w /sys/module/kernel/parameters/consoleblank**

**echo 0 > /sys/module/kernel/parameters/consoleblank**

**export TSLIB\_TSEVENTTYPE=INPUT**

**export TSLIB\_CONSOLEDEVICE=none**

**export TSLIB\_FBDEVICE=/dev/fb0**

**export TSLIB\_TSDEVICE=/dev/input/event0**

**export TSLIB\_CALIBFILE=/usr/local/mini2440/tslib/build/etc/pointercal**

**export TSLIB\_CONFFILE=/usr/local/mini2440/tslib/build/etc/ts.conf**

**export TSLIB\_PLUGINDIR=/usr/local/mini2440/tslib/build/lib/ts**

**export QWS\_MOUSE\_PROTO=tslib:/dev/input/event0**

**export QTDIR=/usr/local/mini2440/qt-4.8.3/build**

**export QWS\_DISPLAY=LinuxFB:mmWidth=105:mmHeight=140**

**/usr/local/mini2440/tslib/build/bin/ts\_calibrate**

**”**

**Running a demo app:**

After booting of target done.

**<must be u need to run ts\_calibrate>**

So calibrate cross-hair correctly. Otherwise cursor doesnt move correctly when u touch.

To run calibrate successfully **ts.conf** has to be modifed as follows in linux:

**uncommnet** **module\_raw input**.

Then run **./ts\_calibrate**

**/ # cd /usr/local/mini2440/qt-4.8.5/build/demos/embedded/fluidlauncher/**

**/ # ./fluidlauncher -qws -fn helvetica**

**-qws** option is mandatory if not given then **Connectoin:refused::()** **error** will be

thrown.

Here **-fn** is for selecting font for the target. If u having crystal clear display then u can ignore **-fn helvetica.**

**Testing TOUCHSCREEN using tslib:**

run **ts\_calibrate** then **ts\_print** then **ts\_test**

**/# ./ts\_calibrate**

Neccessary for device to capture correct pointer place(Precise.).

Otherwise some gap will be maintained b/w user pointed point with stylus

and mouse pointer displayed on screen.

**/# ./ts\_print**

touch and see co-ordinates

**/# ./ts\_test**

select draw

Draw pattern of ur choice.