

Android UI TangoC V1.4.4

Date: January 12, 2012

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Abstact

This procedure is based on the pixcir driver development, it integrates the two functions calibrate and bootloader, Devices require the user to modify the device can read and write permissions. The default device pathname is "/dev/pixcir_i2c_ts0", bootloader file pathname is "/sdcard/boot.pix", make sure you keep the same pathname, Otherwise, the program can not run. The program supports command mode debugging.

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1. Modify device permission
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1> Manually modify the permissions
  # ls -l /dev/pix*
   crw----- 1 0
                           125, 0 Feb 1 13:59 /dev/pixcir i2c ts0
                    0
  # chmod 666 /dev/pixcir i2c ts0
  # ls -l /dev/pix*
  crw-rw-rw- 10
                             125, 0 Feb 1 13:59 /dev/pixcir i2c ts0
  2> Android2.1 modify equipment for reference
  modify the system file /system/core/init/devices.c, such as:
 static struct perms devperms[] = {
 "/dev/null",
                 0666, AID ROOT,
                                       AID ROOT,
 "/dev/zero",
                 0666,
                                                      0 },
                        AID ROOT,
                                       AID ROOT,
 "/dev/full",
                 0666, AID ROOT,
                                       AID ROOT,
                                                      0 },
 "/dev/ptmx",
                 0666,
                        AID ROOT,
                                       AID ROOT,
 "/dev/tty",
                 0666,
                        AID ROOT,
                                       AID ROOT,
                                                      0 },
 "/dev/random",
                 0666,
                        AID ROOT,
                                       AID ROOT,
                                                      0 },
 "/dev/urandom"
                 0666,
                        AID ROOT,
                                       AID ROOT,
                                                      0 },
{ "/dev/ashmem", 0666,
                                                      0 },
                        AID ROOT,
                                       AID ROOT,
                                                      0 },
{ "/dev/binder",
                 0666,
                        AID ROOT,
                                       AID ROOT,
 add this line:
 { "/dev/pixcir i2c ts0",
                          0666, AID ROOT,
                                                  AID ROOT, 0 },
  Recompile the file system, the system can be downloaded to make
  development board. In a terminal view, such as:
  # ls -l /dev/pix*
  crw-rw-rw-root root 125, 0 2000-02-12 23:28 pixcir i2c ts0
  3> put filesystem, copy TangoC.apk to "system/app" directory.
```

2. Install TangoC.apk

1> adb install

Give the I2cTool.apk copy to the specified directory , then enter into the directory,

as follows:

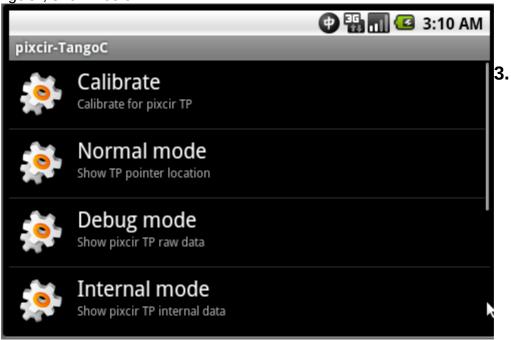
pixcir@pixcir-desktop:~\$ cd ./workspace/Android/I2cTool/bin/pixcir@pixcir-desktop:~/workspace/Android/TangoC/bin\$ adb install ./TangoC.apk

2> sdcard install

Give the TangoC.apk copy to root, then click TangoC.apk, follow the wizard to install. After installation is complete on the desktop pixcir logo, such as:

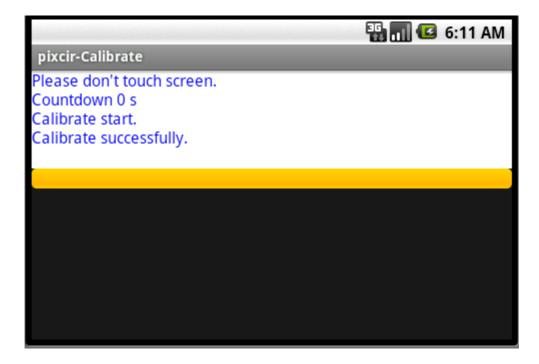


click "TangoC", shown below:



3. Calibrate

click "Calibrate", shown below:



If the following dialog box, please check whether the device or it can read and write.



Re-run TangoC after modified, in order to function properly. other features also need to re-run TangoC.

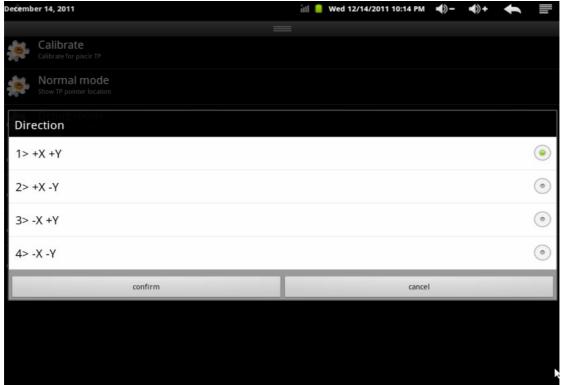
4. Normal mode

show below:

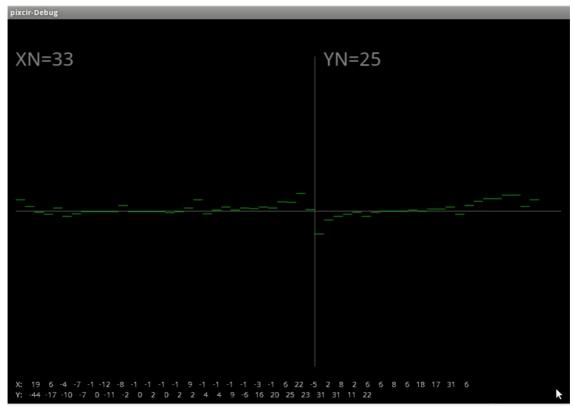


5. Debug mode

Set the direction based on screen, such as:

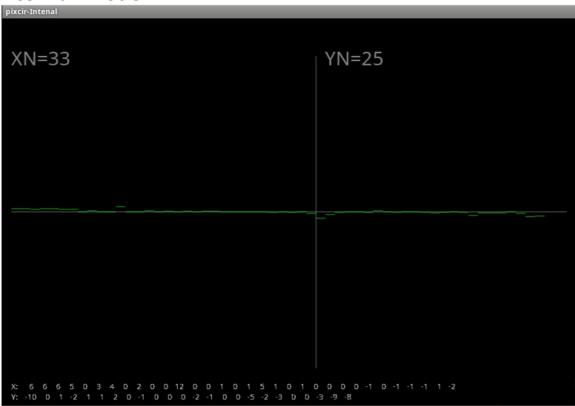


click "confirm" button into debug mode, such as:



Press the start and end on the diagonal points to end the program.

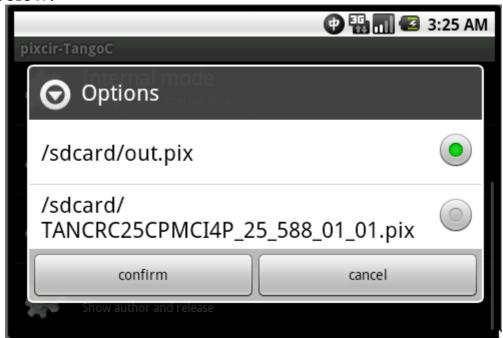
6. Internal mode



Press the start and end on the diagonal points to end the program.

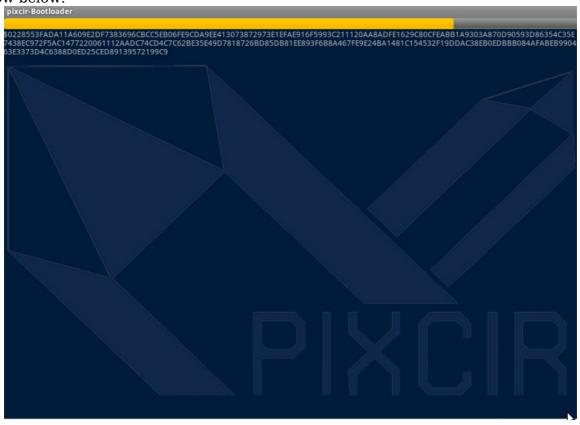
7. Bootloader mode

show below:



pix files must be placed in "/sdcard" directory.

Automatically search all pix files, select the file pix from the list, then click "confirm" to enter the bootloader, or cancel. bootloader successful show "Download successfully", otherwise, show "Download failed", show below:



8. About

Display version number information.such as:



9. Command mode debugging

1> Calibrate command adb shell am start -n com.pixcir.tangoc/.Touch -e cmd c

2> Normal mode command adb shell am start -n com.pixcir.tangoc/.Touch -e cmd n

3> Debug mode command adb shell am start -n com.pixcir.tangoc/.Touch -e cmd d

4> Internal mode command adb shell am start -n com.pixcir.tangoc/.Touch -e cmd i

5> Raster mode command adb shell am start -n com.pixcir.tangoc/.Touch -e cmd r

6> Reset TP adb shell am start -n com.pixcir.tangoc/.Touch -e cmd t

7> Bootloader mode command download "/sdcard/auto.pix", such as: adb shell am start -n com.pixcir.tangoc/.Touch -e cmd b -e pix /sdcard/auto.pix

8> About command adb shell am start -n com.pixcir.tangoc/.Touch -e cmd a

9> Kill process adb shell ps com.pixcir.tangoc adb shell kill -9 PID