

# 校准步骤操作说明

- 1、将文件 cal 和 xinput 复制到桌面（Fedora 24 系统已有 xinput 则不需要添加）
- 2、修改文件权限  
执行命令：`chmod +x cal`      `chmod +d xinput`
- 3、将文件 xinput 移到/usr/bin 目录下 执行命令：`cp xinput /usr/bin/xinput`
- 4、插上触摸屏查找对应的输入设备  
执行命令：`cat /proc/bus/input/devices`

```
cat /proc/bus/input/devices
I: Bus=0019 Vendor=0000 Product=0005 Verston=0000
N: Name="Lid Switch"
P: Phys=PNP0C0D/button/input0
S: Sysfs=/devices/LNXSYSTM:00/LNXSYBUS:00/PNP0A08:00/device:18/PNP0C09:01/PNP0C0D:00/input/input0
U: Uniq=
H: Handlers=event0
B: PROP=0
B: EV=21
B: SW=1

I: Bus=0019 Vendor=0000 Product=0003 Version=0000
N: Name="Sleep Button"
P: Phys=PNP0C0E/button/input0
S: Sysfs=/devices/LNXSYSTM:00/LNXSYBUS:00/PNP0C0E:00/input/input1
U: Uniq=
H: Handlers=kbd event1
B: PROP=0
B: EV=3

S: Sysfs=/devices/pci0000:00/0000:00:15.1/i2c_designware.1/i2c-9/i2c-FTE1001:00/0018:0B05:0101.0001/input/input14
U: Uniq=
H: Handlers=mouse0 event14
B: PROP=5
B: EV=b
B: KEY=e520 10000 0 0 0 0
B: ABS=661800011000003

I: Bus=0003 Vendor=0dfc Product=0001 Version=0202
N: Name="USB Touchscreen 0dfc:0001"
P: Phys=usb-0000:00:14.0-1/input0
S: Sysfs=/devices/pci0000:00/0000:00:14.0/usb1/1-1/1-1:1.0/input/input28
U: Uniq=
H: Handlers=mouse1 event15
B: PROP=0
B: EV=b
B: KEY=400 0 0 0 0 0
B: ABS=3
```

- 5、根据步骤 4 查找的设备执行校准程序  
执行命令：`./cal /dev/input/event15`(如上图获取为 event15)，根据提示点击，点击第三个点之后延迟 3 秒自动退出，如下如所示。

```
*****
* | x11 = 10792 | y11 = 4547 | *
* | xa = 384 | ya = 216 | *
* | x22 = 13830 | y22 = 9680 | *
* | xb = 640 | yb = 540 | *
* | x33 = 22505 | y33 = 14908 | *
* | xc = 1536 | yc = 864 | *
*****

*****
* | xa = 10792 | ya = 4547 | *
* | x11 = 6553 | y11 = 6553 | *
* | xb = 13830 | yb = 9680 | *
* | x22 = 10922 | y22 = 10383 | *
* | xc = 22505 | yc = 14908 | *
* | x33 = 26213 | y33 = 26213 | *
*****

K= -28646111.000000
A= 1.942587
B= -0.298574
C= -0.398382
D= -0.032600
E= 1.934354
F= -0.057701
xinput set-prop 'USB Touchscreen 0dfc:0001' 'libinput Calibration Matrix' 1.942587 -0.298574 -0.398382 -0.032600 1.934354 -0.057701 0.000000 0.000000 1.000000
```

- 6、将获取到命令参数

```
xinput set-prop 'USB Touchscreen 0dfc:0001' 'libinput Calibration Matrix' 1.942587 -0.298574 -0.398382 -0.032600 1.934354 -0.057701 0.000000 0.000000 1.000000
```

添加到/etc/profile 文件末尾，保存并退出，然后重启电脑。