## MTK Android系统卡刷Update.zip刷机包制作教程

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- 一 基础知识和工具准备
- 1 linux基础知识,文件目录权限知识
- 2 官方的ROM,制作卡刷就只需要两个文件boot.img和system.img 以g6i最新的Android2.2官方ROM为例

官方编号:10HX1\_HVGA\_AND\_V22\_V01\_101222\_COM

```
-rw-r--r-- 1 spring spring 2.3M 2010-12-22 17:15 boot.img
```

-rw-r--r-- 1 spring spring 21K 2010-12-22 17:15 logo.bin

-rw-r--r-- 1 spring spring 164 2010-12-22 17:15 MT6516\_Android\_scatter.txt

-rw-r--r-- 1 spring spring 42K 2010-12-22 17:15 preloader\_bird16\_a10y.bin

-rw-r--r-- 1 spring spring 317K 2010-12-22 17:15 ramdisk.img

-rw-r--r-- 1 spring spring 551K 2010-12-22 17:15 ramdisk-recovery.img

-rw-r--r-- 1 spring spring 2.6M 2010-12-22 17:15 recovery.img

-rw-r--r-- 1 spring spring 29K 2010-12-22 17:15 secro.img

-rw-r--r-- 1 spring spring 112M 2010-12-22 17:15 system.img

-rw-r--r-- 1 spring spring 124K 2010-12-22 17:15 uboot\_bird16\_a10y.bin

-rw-r--r-- 1 spring spring 1.5M 2010-12-22 17:15 userdata.img

```
weiqk@ubuntu:~/mobile/rom/10HX1_HVGA_AND_V22_V01_101222_COM_G6i/10HX1_HVGA_AND_V22_V01_101222_COM/BIN$ ls -lh 总计 119M
-rw-r--r-- 1 weiqk weiqk 2.3M 2010-12-22 17:15 boot.img
-rw-r--r-- 1 weiqk weiqk 21K 2010-12-22 17:15 logo.bin
-rw-r--r-- 1 weiqk weiqk 164 2010-12-22 17:15 MT6516_Android_scatter.txt
-rw-r--r- 1 weiqk weiqk 42K 2010-12-22 17:15 preloader_bird16_a10y.bin
-rw-r--r- 1 weiqk weiqk 317K 2010-12-22 17:15 ramdisk.img
-rw-r--r- 1 weiqk weiqk 551K 2010-12-22 17:15 ramdisk-recovery.img
-rw-r--r-- 1 weiqk weiqk 2.6M 2010-12-22 17:15 recovery.img
-rw-r--r-- 1 weiqk weiqk 29K 2010-12-22 17:15 secro.img
-rw-r--r-- 1 weiqk weiqk 112M 2010-12-22 17:15 system.img
-rw-r--r-- 1 weiqk weiqk 124K 2010-12-22 17:15 uboot_bird16_a10y.bin
-rw-r--r-- 1 weiqk weiqk 1.5M 2010-12-22 17:15 userdata.img
weiqk@ubuntu:~/mobile/rom/10HX1_HVGA_AND_V22_V01_101222_COM_G6i/10HX1_HVGA_AND_V22_V01_101222_COM/BIN$
```

## 2.1 其中三个bin文件

```
-rw-r--r-- 1 spring spring 21K 2010-12-22 17:15 logo.bin
```

-rw-r--r-- 1 spring spring 42K 2010-12-22 17:15 preloader\_bird16\_a10y.bin

-rw-r--r-- 1 spring spring 124K 2010-12-22 17:15 uboot\_bird16\_a10y.bin

```
weiqk@ubuntu:~/mobile/rom/10HX1_HVGA_AND_V22_V01_101222_COM_G6i/10HX1_HVGA_AND_V22_V01_101
-rw-r--r-- 1 weiqk weiqk 21K 2010-12-22 17:15 logo.bin
-rw-r--r-- 1 weiqk weiqk 42K 2010-12-22 17:15 preloader_bird16_a10y.bin
-rw-r--r-- 1 weiqk weiqk 124K 2010-12-22 17:15 uboot_bird16_a10y.bin
weiqk@ubuntu:~/mobile/rom/10HX1_HVGA_AND_V22_V01_101222_COM_G6i/10HX1_HVGA_AND_V22_V01_101
```

#### 是需要通过刷机线才能升级的

- 2.2 剩下的img文件,Android刷机时用到就五个,这几个img文件都是可以是用MTK官方提供的刷机软件Flash tool通过usb线直接刷机的
- -rw-r--r-- 1 spring spring 2.3M 2010-12-22 17:15 boot.img
- -rw-r--r-- 1 spring spring 2.6M 2010-12-22 17:15 recovery.img
- -rw-r--r-- 1 spring spring 29K 2010-12-22 17:15 secro.img
- -rw-r--r-- 1 spring spring 112M 2010-12-22 17:15 system.img
- -rw-r--r-- 1 spring spring 1.5M 2010-12-22 17:15 userdata.img

```
weiqk@ubuntu:~/mobile/rom/10HX1_HVGA_AND_V22_V01_101222_COM_66i/10HX1_HVGA_AND_V22_V01_101222_COM/BIN$ ls *.img -alh
-rw-r--r-- 1 weiqk weiqk 2.3M 2010-12-22 17:15 boot.img
-rw-r--r-- 1 weiqk weiqk 317K 2010-12-22 17:15 ramdisk.img
-rw-r--r-- 1 weiqk weiqk 551K 2010-12-22 17:15 ramdisk-recovery.img
-rw-r--r-- 1 weiqk weiqk 551K 2010-12-22 17:15 recovery.img
-rw-r--r-- 1 weiqk weiqk 2.6M 2010-12-22 17:15 recovery.img
-rw-r--r-- 1 weiqk weiqk 29K 2010-12-22 17:15 secro.img
-rw-r--r-- 1 weiqk weiqk 112M 2010-12-22 17:15 system.img
-rw-r--r-- 1 weiqk weiqk 1.5M 2010-12-22 17:15 userdata.img
weiqk@ubuntu:~/mobile/rom/10HX1_HVGA_AND_V22_V01_101222_COM_G6i/10HX1_HVGA_AND_V22_V01_101222_COM/BIN$
```

- 2.3 这两个镜像其实是boot.img和recovery.img镜像的文件压缩部分,学名ramdisk。需要更加深入研究手机怎么引导的同学可以研究。
- -rw-r--r-- 1 spring spring 317K 2010-12-22 17:15 ramdisk.img
- -rw-r--r-- 1 spring spring 551K 2010-12-22 17:15 ramdisk-recovery.img
- 3 yaffs压缩格式解压工具unyaffs.
- 3.1 yaffs是什么格式?

yaffs是第一个专门为NAND Flash存储器设计的嵌入式文件系统,适用于大容量的存储设备;并且是在GPL(General Public License)协议下发布的。

- 4 签名java jar包已经java环境。这个在mtk的机器上可以不用做,移动叔叔的Recovery已经绕过签名执行安装脚本了。
- 二 工作环境的建立
- 1 建立一个自己的工作目录,如 ~/mobile/diy/g6i/diyrom, ~在linux系统中代表用户自己的目录。比如你的用户名是mobileuncle. 那么~就代表/home/mobileuncle
- 2 把unyaffs复制到~/bin目录,这个bin是一个可以执行的目录,里面放一些你自己常用的命令或者脚本,赋予unyaffs可以执行权限chmod 755 ~/bin/unyaffs

- 3 再在~/mobile/diy/g6i/diyrom目录下建立一个zip目录,将你需要制作的boot.img复制到~/mobile/diy/g6i/diyrom/zip目录。
- 4 在~/mobile/diy/g6i/diyrom/zip/system目录下在建立一个system目录, 将你需要制作的system.img复制到 ~/mobile/diy/g6i/diyrom/zip/system目录。
- 5 进入~/mobile/diy/g6i/diyrom/zip/system目录,执行 unyaffs system.img解开system的文件包

#### 6 删除system.img

```
spring@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ unyaffs system.img
end of image
spring@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ ls -alh
总计 112M
drwxr-xr-x 12 spring spring 4.0K 2010-12-31 06:25.
drwxr-xr-x 3 spring spring 4.0K 2010-12-31 06:24 ...
drwxr-xr-x 2 spring spring 4.0K 2010-12-31 06:25 app
drwxr-xr-x 2 spring spring 4.0K 2010-12-31 06:25 bin
-rw-r--r-- 1 spring spring 3.4K 2010-12-31 06:25 build.prop
drwxr-xr-x 8 spring spring 4.0K 2010-12-31 06:25 etc
drwxr-xr-x 2 spring spring 4.0K 2010-12-31 06:25 fonts
drwxr-xr-x 2 spring spring 4.0K 2010-12-31 06:25 framework
drwxr-xr-x 5 spring spring 12K 2010-12-31 06:25 lib
drwxr-xr-x 4 spring spring 4.0K 2010-12-31 06:25 media
drwxr-xr-x 3 spring spring 4.0K 2010-12-31 06:25 res
-rw-r--r-- 1 spring spring 112M 2010-12-31 06:24 system.img
drwxr-xr-x 6 spring spring 4.0K 2010-12-31 06:25 usr
drwxr-xr-x 2 spring spring 4.0K 2010-12-31 06:25 xbin
spring@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ rm system.img
spring@ubuntu:~/mobile/diy/g6i/diyrom/zip$ ls -al
总计 2352
drwxr-xr-x 3 spring spring 4096 2010-12-31 06:24.
drwxr-xr-x 3 spring spring 4096 2010-12-31 06:19 ...
-rw-r--r-- 1 spring spring 2394112 2010-12-31 06:24 boot.img
drwxr-xr-x 12 spring spring 4096 2010-12-31 06:26 system
```

```
weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ ls -alh
总计 112M
drwxr-xr-x 2 weiqk weiqk 4.0K 2010-12-31 06:24 .
drwxr-xr-x 3 weiqk weiqk 4.0K 2010-12-31 06:24 ..
 -rw-r--r-- 1 weiqk weiqk 112M 2010-12-31 06:24 system.img
 veiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ unyaffs system.img
end of image
weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ ls -alh
总计 112M
drwxr-xr-x 12 weiqk weiqk 4.0K 2010-12-31 06:25
drwxr-xr-x 3 weiqk weiqk 4.0K 2010-12-31 06:24 ..
drwxr-xr-x 2 weiqk weiqk 4.0K 2010-12-31 06:25 app
drwxr-xr-x 2 weiqk weiqk 4.0K 2010-12-31 06:25 bin
-rw-r--r-- 1 weiqk weiqk 3.4K 2010-12-31 06:25 build.prop
drwxr-xr-x 8 weigk weigk 4.0K 2010-12-31 06:25 etc
drwxr-xr-x 2 weiqk weiqk 4.0K 2010-12-31 06:25 fonts
drwxr-xr-x 2 weiqk weiqk 4.0K 2010-12-31 06:25 framework
drwxr-xr-x 5 weiqk weiqk 12K 2010-12-31 06:25 lib
drwxr-xr-x 4 weiqk weiqk 4.0K 2010-12-31 06:25 media
drwxr-xr-x 3 weiqk weiqk 4.0K 2010-12-31 06:25 res
-rw-r--r- 1 weiqk weiqk 112M 2010-12-31 06:24 system.img
drwxr-xr-x 6 weiqk weiqk 4.0K 2010-12-31 06:25 usr
drwxr-xr-x 2 weiqk weiqk 4.0K 2010-12-31 06:25 xbin
 weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system$ rm system.img
```

7 到这一步update.zip的文件结构已经出来了,zip目录就是我们以后要刷机的目录了。现在就是增加刷机脚本了,在zip目录下建立一个META-INF/com/google/android/目录 mkdir -p META-INF/com/google/android

```
weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip$ mkdir -p META-INF/com/google/android/weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip$ ls -alh 总计 2.4M drwxr-xr-x 4 weiqk weiqk 4.0K 2010-12-31 06:53 . drwxr-xr-x 3 weiqk weiqk 4.0K 2010-12-31 06:19 .. -rw-r--r- 1 weiqk weiqk 2.3M 2010-12-31 06:24 boot.img drwxr-xr-x 3 weiqk weiqk 4.0K 2010-12-31 06:53 META-INF drwxr-xr-x 12 weiqk weiqk 4.0K 2010-12-31 06:26 system weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip$
```

如图

```
😰 🖨 📵 weiqk@ubuntu: ~/mobile/diy/g6i/diyrom/zip/META-INF/com/google/android
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
show_progress 0.1 0
format SYSTEM:
format CACHE:
copy_dir PACKAGE:system SYSTEM:
copy_dir PACKAGE:data SYSTEM:
symlink toolbox SYSTEM:bin/cat
symlink toolbox SYSTEM:bin/chmod
symlink toolbox SYSTEM:bin/chown
symlink toolbox SYSTEM:bin/cmp
symlink toolbox SYSTEM:bin/date
symlink toolbox SYSTEM:bin/dd
symlink toolbox SYSTEM:bin/df
symlink toolbox SYSTEM:bin/dmesg
symlink toolbox SYSTEM:bin/fb2bmp
symlink toolbox SYSTEM:bin/getevent
symlink toolbox SYSTEM:bin/getprop
symlink toolbox SYSTEM:bin/hd
symlink toolbox SYSTEM:bin/id
symlink toolbox SYSTEM:bin/ifconfig
symlink toolbox SYSTEM:bin/iftop
symlink toolbox SYSTEM:bin/insmod
```

8 在META-INF/com/google/android/目录下建立update-script脚本,可以从其他已经做好的rom里提取这个脚本来编辑。通过recovery卡刷系统的时候执行的就是这个脚本,做自己的android卡刷rom要做的通常就是编辑这个脚本和增减apk程序,移动叔叔的recovery已经把签名绕过了

weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system/app\$ ls -a ES\_filemanager.apk MagicSmokeWallpapers.apk SNSCommon.apk SnsContentProvider.apk FancyWidget.apk Maps.apk AccountAndSyncSettings.apk FMRadio.apk MarketUpdater.apk SnsWidget24.apk MediaProvider.apk AcwfDialog.apk Gallery.apk SnsWidget.apk ApplicationsProvider.apk GenieWidget.apk MediaUploader.apk soundback.apk Bluetooth.apk Gmail.apk Mms.apk SoundRecorder.apk Browser.apk GoogleBackupTransport.apk MtkBt.apk Stk1.apk Calculator.apk GoogleCalendarSyncAdapter.apk Music.apk Stk2.apk Calendar.apk GoogleContactsSyncAdapter.apk NetworkLocation.apk Street.apk CalendarProvider.apk GoogleFeedback.apk OneTimeInitializer.apk Talk.apk Calibrator.apk GooglePartnerSetup.apk PackageInstaller.apk talkback.apk CameraOpen.apk GoogleServicesFramework.apk Phone.apk TelephonyProvider.apk CertInstaller.apk googlevoice.apk PicoTts.apk Term.apk PinyinIME.apk Contacts.apk HTMLViewer.apk TtsService.apk ContactsProvider.apk KaiXinAccountService.apk Protips.apk UserDictionaryProvider.apk DataDialog.apk kickback.apk Provision.apk Vending.apk DefaultContainerService.apk LatinIME.apk VisualizationWallpapers.apk QQ.apk DeskClock.apk LatinImeGoogle.apk QuickSearchBox.apk VoiceSearch.apk VolumeControl.apk DownloadProvider.apk LatinImeTutorial.apk RenRenAccountService.apk DrmProvider.apk Launcher2.apk Settings.apk VpnServices.apk Email.apk LiveWallpapers.apk SettingsProvider.apk YGPS.apk EngineerMode.apk LiveWallpapersPicker.apk SetupWizard.apk ZhuyincangjieIME.apk weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system/app\$

weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system/bin\$ ls acdktest dalvikvm geomagneticd linker rild netcfa start date getevent ln netd rm stop dbus-daemon rmdir surfaceflinger applypatch getprop log netstat applypatch\_static gsm0710muxd newfs\_msdos rmmod logcat app\_process debuggerd gzip logwrapper notify route sync audioloop dexopt hd nvram\_daemon ls run-as system\_server lsmod bmgr df id omx\_tests schedtest tc bootanimation dhcpcd ifconfig mediaserver orientationd schedtop testid3 iftop toolbox boot\_logo\_updater dmesg memorydumper ping sendevent top btlogmask dnsmasq ime meta\_tst sensorTest pm bugreport dumpstate input mkdir pppd service umount dumpsys insmod servicemanager updater camkey monkey printenv cat installd mount setconsole ps ccaptest eptest ioctl mtk\_agpsd gemud setprop vmstat ccci\_fsd factory ionice mtkbt qemu-props vold sh fb2bmp iptables watchprops ccci\_mdinit mtpd racoon showlease flash\_image check\_prereq keystore muxreport reboot skia test wipe chmod fsck\_msdos keystore\_cli sleep wpa\_supplicant record chown gdbjithelper kill nandread recovery smd gdbserver kpd\_auto renice stagefright ndc

```
weigk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system/bin$ ls
                                               keystore_cli
acdktest
                  ccci_fsd
                                 factory
                                                             ndc
                                                                            recovery
                                                                                            system_server
                                 flash_image
                                                                           rild
                  ccci_mdinit
                                               kpd_auto
                                                             netcfg
am
                                                                                            tc
                  check_prereq fsck_msdos
                                                             netd
                                                                                            testid3
                                               linker
applypatch
                                                                           run-as
applypatch_static dalvikvm
                                 gdbjithelper logcat
                                                                                            toolbox
                                                             nvram_daemon schedtest
app_process
                  dbus-daemon
                                 gdbserver
                                               logwrapper
                                                             omx_tests
                                                                           sensorTest
                                                                                            updater
audioloop
                  debuggerd
                                 geomagneticd mediaserver
                                                             orientationd service
                                                                                            vdc
bmgr
                  dexopt
                                 gsm0710muxd
                                               memorydumper
                                                             ping
                                                                           servicemanager
                                                                                            vold
bootanimation
                                               meta_tst
                                                                                            wpa_supplicant
                  dhcpcd
                                 gzip
                                                             pm
                                                                           sh
boot_logo_updater dnsmasq
                                 ime
                                                                           showlease
                                               monkey
                                                             pppd
                                               mtk_agpsd
                                                                           skia_test
btlogmask
                  dumpstate
                                                             qemud
                                 input
                                                             qemu-props
bugreport
                  dumpsys
                                 installd
                                                                           stagefright
                                               mtkbt
camkey
                  dvz
                                 iptables
                                               mtpd
                                                             racoon
                                                                           surfaceflinger
ccaptest
                   eptest
                                 keystore
                                               muxreport
                                                             record
                                                                           SVC
weigk@ubuntu:~/mobile/diy/g6i/diyrom/zip/system/bin$
```

#### 三 ROM文件的自定义

#### 1 APK程序的自定义

在system/app目录下就是ROM默认自带的apk应用程序,我们可以根据自己的需求来精简和添加我们的apk程序。

#### 2 bin目录的软链删除

由于我们是从官方的压缩包里提取的系统,在bin目录下有很多可以执行的软链接,用rm命令吧所有软链删除。rm date getevent In............

## 已经删除完事的bin目录

我们可以根据自己的需求来增加脚本或者扩展程序,比如busybox,然后在安装脚本里添加软链

# 四 update-script安装脚本的编写和修改

update-script是整个update.zip刷机包工作的起点,Recovery程序执行的就是这个脚本。需要我们来做添加一些我们自己的个性化rom安装脚本参考代码如下:

show\_progress 0.1 0

#modify by m44 for g6i 2.2 format SYSTEM: format CACHE:

copy\_dir PACKAGE:system SYSTEM: copy\_dir PACKAGE:data SYSTEM:

```
symlink toolbox SYSTEM:bin/cat
```

- symlink toolbox SYSTEM:bin/chmod
- symlink toolbox SYSTEM:bin/chown
- symlink toolbox SYSTEM:bin/cmp
- symlink toolbox SYSTEM:bin/date
- symlink toolbox SYSTEM:bin/dd
- symlink toolbox SYSTEM:bin/df
- symlink toolbox SYSTEM:bin/dmesg
- symlink toolbox SYSTEM:bin/fb2bmp
- symlink toolbox SYSTEM:bin/getevent
- symlink toolbox SYSTEM:bin/getprop
- symlink toolbox SYSTEM:bin/hd
- symlink toolbox SYSTEM:bin/id
- symlink toolbox SYSTEM:bin/ifconfig
- symlink toolbox SYSTEM:bin/iftop
- symlink toolbox SYSTEM:bin/insmod
- symlink toolbox SYSTEM:bin/ioctl
- symlink toolbox SYSTEM:bin/ionice
- symlink toolbox SYSTEM:bin/kill
- symlink toolbox SYSTEM:bin/ln
- symlink toolbox SYSTEM:bin/log
- symlink toolbox SYSTEM:bin/ls
- symlink toolbox SYSTEM:bin/lsmod
- symlink toolbox SYSTEM:bin/mkdir
- symlink toolbox SYSTEM:bin/mount
- symlink toolbox SYSTEM:bin/mv
- symlink toolbox SYSTEM:bin/nandread
- symlink toolbox SYSTEM:bin/netstat
- symlink toolbox SYSTEM:bin/newfs\_msdos
- symlink toolbox SYSTEM:bin/notify
- symlink toolbox SYSTEM:bin/printenv
- symlink toolbox SYSTEM:bin/ps
- symlink toolbox SYSTEM:bin/reboot
- symlink toolbox SYSTEM:bin/renice
- symlink toolbox SYSTEM:bin/rm
- symlink toolbox SYSTEM:bin/rmdir
- symlink toolbox SYSTEM:bin/rmmod
- symlink toolbox SYSTEM:bin/route
- symlink toolbox SYSTEM:bin/schedtop
- symlink toolbox SYSTEM:bin/sendevent
- symlink toolbox SYSTEM:bin/setconsole
- symlink toolbox SYSTEM:bin/setprop
- symlink toolbox SYSTEM:bin/sleep
- symlink toolbox SYSTEM:bin/smd
- symlink toolbox SYSTEM:bin/start
- symlink toolbox SYSTEM:bin/stop

symlink toolbox SYSTEM:bin/sync symlink toolbox SYSTEM:bin/top symlink toolbox SYSTEM:bin/umount symlink toolbox SYSTEM:bin/vmstat symlink toolbox SYSTEM:bin/watchprops symlink toolbox SYSTEM:bin/wipe

set\_perm\_recursive 0 0 0755 0644 SYSTEM:
set\_perm\_recursive 0 2000 0755 0755 SYSTEM:bin
set\_perm 0 3003 02755 SYSTEM:bin/netcfg
set\_perm 0 3004 02755 SYSTEM:bin/ping
set\_perm 0 2000 06755 SYSTEM:bin/reboot
set\_perm\_recursive 0 2000 0755 0755 SYSTEM:etc/ppp
set\_perm 1002 1002 0440 SYSTEM:etc/dbus.conf
set\_perm 1014 2000 0550 SYSTEM:etc/dhcpcd/dhcpcd-run-hooks
set\_perm 0 2000 0550 SYSTEM:etc/init.goldfish.sh
set\_perm 0 0 04755 SYSTEM:xbin/su
symlink /system/xbin/su SYSTEM:bin/su
show\_progress 0.1 10

show\_progress 0.2 0 format BOOT: write\_raw\_image PACKAGE:boot.img BOOT: show\_progress 0.2 10

会不会很迷茫, 那么多命令, 下面我们来总结一下脚本的语法

1 delete 分区:目标文件路径 删除文件,如: delete DATA:data/com.android.vending delete SYSTEM:app/QQ.apk

2 copy\_dir PACKAGE:目录 分区: 从update包内复制文件到手机分区,如: copy\_dir PACKAGE:system SYSTEM:

3 delete\_recursive 分区:子目录路径 删除目录,如: delete\_recursive DATA:dalvik-cache

4 format 分区

格式化分区,如

format BOOT:

5 show\_progreess x.x x

显示刷机进度,如

show\_progress 0.2 0

6 symlink 命令 分区:文件

建立软链 如:

symlink toolbox SYSTEM:bin/wipe

7 write\_raw\_image 刷img镜像

8 set\_perm 设置权限

google的update-script脚本英文解析

1 copy dir

Syntax: copy\_dir <src-dir> <dst-dir> [<timestamp>]

Copy the contents of <src-dir> to <dst-dir>. The original contents of <dst-dir> are

preserved unless something in <src-dir> overwrote them.

Ex: copy\_dir PACKAGE:system SYSTEM:

2 format

Syntax: format <root> Format a partiti0n

Ex: format SYSTEM:, will format entire /system . Note: formatting erases data

irreversibly.

3 delete

Syntax: delete <file1> [... <fileN>]

Delete file.

EX: delete SYSTEM:app/Calculator.apk, will delete Calculator.apk from system/app

directory.

4 delete recursive

Syntax: delete\_recursive <file-or-dir1> [... <file-or-dirN>]

Delete a file or directory with all of it's contents recursively

Ex: delete\_recursive DATA:dalvik-cache, will delete /data/dalvik-cache directory with all

of it's contents

5 run\_program

Syntax: run\_program cprogram-file> [<args> ...]

Run an external program included in the update package.

Ex: run\_program PACKAGE:install\_busybox.sh, will run install\_busybox.sh script (shell command) included in the update package.

#### 6 set\_perm

Syntax: set\_perm <uid> <gid> <mode> <path> [... <pathN>]

Set ownership and permission of single file or entire directory trees, like 'chmod',

'chown', and 'chgrp' all in one

Ex: set\_perm 0 2000 0550 SYSTEM:etc/init.goldfish.sh

#### 7 set\_perm\_recursive

Syntax: set\_perm\_recursive <uid> <gid> <dir-mode> <file-moe> <path> [... <pathN>]

Set ownership and permission of a directory with all of it's contents recursively

Ex: set\_perm\_recursive 0 0 0755 0644 SYSTEM:app

#### 8 show\_progress

Syntax: show\_progress <fraction> <duration>

Use of the on-screen progress meter for the next operation, automatically advancing the meter over <duration> seconds (or more rapidly if the actual rate of progress can be determined).

Ex: show\_progress 0.1 0

## 9 symlink

Syntax: symlink <link-target> <link-path>

Create a symlink (like 'ln-s'). The link-path> is in root:path format, but link-target> is for the target filesystem (and may be relative)

## 参考知识, MT6516, 以q6i为例的分区

#### # cat /proc/mtd

dev: size erasesize name

mtd0: 00020000 00020000 "preloader"

mtd1: 00300000 00020000 "nvram"

mtd2: 00020000 00020000 "seccnfg"

mtd3: 00060000 00020000 "uboot"

mtd4: 00600000 00020000 "boot"

mtd5: 00600000 00020000 "recovery"

mtd6: 00120000 00020000 "secstatic"

mtd7: 00060000 00020000 "misc"

mtd8: 07800000 00020000 "system"

mtd9: 03c00000 00020000 "cache" mtd10: 00300000 00020000 "logo"

mtd11: 000a0000 00020000 logo

mtd12: 13740000 00020000 "userdata"

# 五 打包update.zip 在zip目录使用命令

zip -r ../my-update.zip .

将会把zip目录下的boot.img META-INF system 压缩到diyrom目录

```
weiqk@ubuntu:~/mobile/diy/g6i/diyrom/zip$ zip -r ../my-update.zip .
updating: boot.img (deflated 1%)
updating: META-INF/ (stored 0%)
updating: META-INF/com/ (stored 0%)
updating: META-INF/com/google/ (stored 0%)
updating: META-INF/com/google/android/ (stored 0%)
updating: META-INF/com/google/android/update-script (deflated 77%)
updating: system/ (stored 0%)
updating: system/fonts/ (stored 0%)
updating: system/fonts/DroidSansFallback.ttf (deflated 52%)
updating: system/fonts/DroidSans.ttf (deflated 46%)
updating: system/fonts/DroidSerif-Regular.ttf (deflated 42%)
updating: system/fonts/DroidSansArabic.ttf (deflated 45%)
updating: system/fonts/DroidSerif-Bold.ttf (deflated 41%)
updating: system/fonts/DroidSerif-BoldItalic.ttf (deflated 42%)
updating: system/fonts/DroidSans-Bold.ttf (deflated 45%)
updating: system/fonts/DroidSansMono.ttf (deflated 35%)
updating: system/fonts/DroidSerif-Italic.ttf (deflated 41%)
updating: system/fonts/DroidSansHebrew.ttf (deflated 44%)
updating: system/fonts/Clockopia.ttf (deflated 39%)
updating: system/fonts/DroidSansThai.ttf (deflated 47%)
```

命令结束会在zip的上一级目录生成我们自己制作的刷机包my-update.zip

```
weiqk@ubuntu:~/mobile/diy/g6i/diyrom$ ls -alh
总计 78M
drwxr-xr-x 3 weiqk weiqk 4.0K 2010-12-31 08:13 .
drwxr-xr-x 9 weiqk weiqk 4.0K 2010-12-31 05:53 ..
-rwxr-xr-x 1 weiqk weiqk 325 2010-12-31 07:49 build.sh
-rw-r--r-- 1 weiqk weiqk 78M 2010-12-31 08:13 my-update.zip
drwxr-xr-x 4 weiqk weiqk 4.0K 2010-12-31 06:53 zip
weiqk@ubuntu:~/mobile/diy/g6i/diyrom$
```

可以看到有个build.sh, 这个是春哥自己做的自动打包和签名脚本。里面是这样的cd zip zip -r ../my-update.zip . cd .. java -jar ~/tools/testsign.jar my-update.zip m44-update-signed.zip

最后一行是签名. 这个没有研究过。可以绕过就是了。到这里刷机包就制作完成了

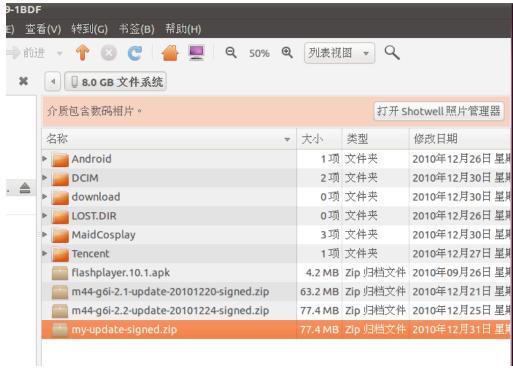
```
updating: system/usr/share/zoneinfo/ (stored 0%)
updating: system/usr/share/zoneinfo/zoneinfo.idx (deflated 75%)
updating: system/usr/share/zoneinfo/zoneinfo.dat (deflated 68%)
updating: system/usr/share/zoneinfo/zoneinfo.version (stored 0%)
updating: system/usr/keychars/ (stored 0%)
updating: system/usr/keychars/gwerty2.kcm.bin (deflated 53%)
updating: system/usr/keychars/mt6516-kpd.kcm.bin (deflated 52%)
updating: system/usr/keychars/gwerty.kcm.bin (deflated 50%)
updating: system/usr/keylayout/ (stored 0%)
updating: system/usr/keylayout/qwerty.kl (deflated 63%)
updating: system/usr/keylayout/AVRCP.kl (deflated 57%)
updating: system/usr/keylayout/mt6516-kpd.kl (deflated 63%)
weiqk@ubuntu:~/mobile/diy/g6i/diyrom$ ls -alh
总计 155M
drwxr-xr-x 3 weigk weigk 4.0K 2010-12-31 08:42 .
drwxr-xr-x 9 weigk weigk 4.0K 2010-12-31 08:37 ...
-rwxr-xr-x 1 weigk weigk 113 2010-12-31 08:41 build.sh
-rw-r--r-- 1 weiqk weiqk 78M 2010-12-31 08:43 my-update-signed.zip
drwxr-xr-x 4 weigk weigk 4.0K 2010-12-31 06:53 zip
weiqk@ubuntu:~/mobile/diy/g6i/diyrom$
```

最后生成的my-update.signed.zip就可以放到sd卡刷机了

#### 四刷机

- 1 刷移动叔叔的中文Recovery, 现在的版本是0.9.1, 进入Recovery模式
- 2 使用第一项U盘模式,把做好的myupdate.signed.zip通过usb模式复制到sd卡上
- 3选择从SD卡用?ZIP包刷机
- 4 等待几分钟,叔叔的Recovery会自动跳过签名 执行刷机脚本的
- 5 用Recovery菜单的"重启手机"重启,这里要注意,如果不用这个菜单重启而是用别的方法手机重启后还是Recovery模式
- 6 刷机完成,因为只格式化了System分区, DATA分区没有动,所以用户数据没有丢失包括 之前安装的软件都没丢







# hTC

安卓刷机修复模式-0.9.1 移动叔叔(m44.com.cn) 选择SD卡上的ZIP文件包, [返回]或[音量減小]按钮, 返回上级菜单

m44-g6i-2.1-update-20101220-sig my-update-signed.zip

Product:bird Version:10YW 平台:NT6516 ChipVer:S01

开启U盘模式:、

开启U盘模式完成! 按[menu]取消并返回 取消U盘模式: .

取消U盘模式完成!

htc

htc

开启U盘模式: .

开启U盘模式完成! 按[menu]取消并返回 取消U盘模式: .

取消U盘模式完成!

安装:my-update-signed.zip 按[menu]确定, 其它按钮取消并返回菜单

从SD卡安装...
查找刷机包...
打开刷机包...
验证ZIP文件刷机包...
E:没有签名 (577个文件)
E:验证失败
不验证签名安装ZIP...
安装刷机包...

格式化 SYSTEM:... 格式化 CACHE:... 复制文件...

Product:bird16\_a10y Version:10YW1048MP

平台:MT6516 ChipVer:S01

开启U盘模式:

开启U盘模式完成 按[menu]取消并返回 取消U盘模式: .

取消U盘模式完成!

安装:my-update-signed.zip 按[menu]确定, 其它按钮取消并返回菜单



a

MENU