

Random Notes

Out-of-place stuffs...

Video Notes

NTSC

- used mainly in US, Japan
- 60 Hz, 525 lines at 30 fps (480i)
- resolution $\Rightarrow$ 720 x 480 (DVD-NTSC?)

PAL

- used mainly in UK, Europe, SE Asia
- 50 Hz, 625 lines at 25 fps (576i)
- resolution $\Rightarrow$ 720 x 576 (DVD-PAL?)

Standard	Supported Aspect Ratio
MPEG	1:1 4:3 2.11:1 16:9
TV	4:3 16:9

Settings	Resolution
Fullscreen (Std)	4:3
Widescreen	16:9 (LetterBox)
Widescreen	16:9 (Anamorphic)

Issue Running ImageMagick's Convert

I got the following error message

```
convert-im6.q16: attempt to perform an operation not allowed by the security policy `EPS'
```

I got the solution from [here](#). It turns out, there is a security feature that we need to grant. Edit file `/etc/ImageMagick-6/policy.xml`. Find the following line,

```
<policy domain="coder" rights="none" pattern="EPS" />
```

and change the rights value to `read|write`.

Live Video Streaming using ffmpeg

Dumping this here as it is for now...

```
# may run on ramdisk?
```

```
- hls?
```

```
ffmpeg -f v4l2 -i /dev/video0 -strict experimental -pix_fmt yuv420p
playlist.m3u8
```

```
- generic segmenter?
```

```
ffmpeg -f v4l2 -framerate 25 -video_size 640x480 -i /dev/video0 -f segment -
segment_time 10 -segment_format_options movflags=+faststart out%03d.mp4
```

```
- option to place keyframe every 2s (every 50 frames at 25fps)
```

```
-c:v libx264 -r 25 -g 50
```

```
*note: segment_time should be multiple of keyframe interval
```

```
We need to modify /etc/apache2/mods-available/mime.conf
```

```
AddType application/x-mpegURL .m3u8
```

```
AddType video/MP2T .ts
```

Analysis of Android (cheap, china made) disk partition layout

Dumped...

```
https://spflashtool.com/download/SP\_Flash\_Tool-5.1916\_Linux.zip
```

```
=> ./adb shell
```

```
$ cat /proc/mtd
```

```
dev:    size  erasesize  name
```

```
$ cat /proc/dumchar_info
```

Part_Name	Size	StartAddr	Type	MapTo
preloader	0x000000000000880000	0x0000000000000000	2	/dev/misc-sd
mbr	0x00000000000080000	0x0000000000000000	2	
/dev/block/mmcblk0				
ebr1	0x00000000000080000	0x00000000000080000	2	
/dev/block/mmcblk0p1				
pro_info	0x00000000000300000	0x00000000000100000	2	
/dev/block/mmcblk0				
nvr	0x00000000000500000	0x00000000000400000	2	
/dev/block/mmcblk0				
protect_f	0x00000000000a00000	0x00000000000900000	2	

```

/dev/block/mmcblk0p2
protect_s      0x000000000000a00000  0x00000000001300000  2
/dev/block/mmcblk0p3
seccfg         0x00000000000020000  0x00000000001d00000  2
/dev/block/mmcblk0
uboot          0x00000000000060000  0x00000000001d20000  2
/dev/block/mmcblk0
bootimg        0x00000000000060000  0x00000000001d80000  2
/dev/block/mmcblk0
recovery        0x00000000000060000  0x00000000002380000  2
/dev/block/mmcblk0
sec_ro         0x00000000000040000  0x00000000002980000  2
/dev/block/mmcblk0
misc           0x00000000000080000  0x000000000029c0000  2
/dev/block/mmcblk0
logo           0x00000000000030000  0x00000000002a40000  2
/dev/block/mmcblk0
expdb          0x000000000000a0000  0x00000000002d40000  2
/dev/block/mmcblk0
android        0x00000000003520000  0x00000000003740000  2
/dev/block/mmcblk0p4
cache          0x00000000000e20000  0x000000000038940000 2
/dev/block/mmcblk0p5
usrdata        0x00000000009e36000  0x000000000046b40000 2
/dev/block/mmcblk0p6
bmtpool        0x00000000001500000  0x0000000000ff7700a8  2
/dev/block/mmcblk0
Part_Name:Partition name you should open;
Size:size of partition
StartAddr:Start Address of partition;
Type:Type of partition(MTD=1,EMMC=2)
MapTo:actual device you operate

```

```

$ getprop ro.build.ab_update
- returns nothing... so, using A-only partition scheme (instead of newer A-B
scheme)

```

From:

<https://azman.my1matrix.cc/> - Azman @MY1

Permanent link:

<https://azman.my1matrix.cc/doku.php?id=notes:random&rev=1775354645>

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