Application Notes

Tablet HDMI 输出配置指南

Revision 0.1

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修改记录

版本	日期	作者	修改
0.1	2014/06/16	Wei Wang	初稿

1. 简介

Tablet HDMI 输出，大部分切换都是依靠写节点的方式，实现在 hdmiswitch.apk 中。

2. M8baby 输出配置

2.1. Panel 输出

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/display/mode","panel") ;
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","0")
```

2.2. 插上 hdmi 后，切换到 hdmi 输出

2.2.1. HDMI 端输出 480p

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_angle","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","1");
amsysfs_set_sysfs_str("/sys/class/display/mode","480p");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale_axis","0 0 1279 719");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/window_axis","20 10 700 470");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x10001");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_update_pan","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","0");
```

2.2.2. HDMI 端输出 720p

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_angle","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale_axis","0 0 1279 719");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/window_axis","40 15 1239 704");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x10001");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_update_pan","1");
amsysfs_set_sysfs_str("/sys/class/display/mode","720p");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","0");
```

2.2.3. Hdmi 端输出 1080p

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_angle","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","1");
amsysfs_set_sysfs_str("/sys/class/display/mode","1080p");
```

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale_axis","0 0 1279 719");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/window_axis","40 15 1879 1064");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x10001");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_update_pan","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","0");
```

备注：

1. int amsysfs_set_sysfs_str(const char *path, const char *val)
   说明：这个函数用来写节点，将 path 写入 val
2. 以上是依据 m102 为例，说明切换过程
   写入 free_scale_aixs 是 fb1 的 size，fb1 的数据是把 fb0 的数据经过翻转拉伸后得到的。为了适应 hdmi 不同的分辨率，通过 osd scaler 将初始数据 scale 到各个分辨率。