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Android-x86对于部分笔记本无法启动图形桌面的解决方案 #23

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elliott10 opened this issue on 17 May · 2 comments



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### Android-x86 启动图形桌面

#### QEMU启动失败

尝试增加参数 “-vga std” ；

#### 官方推荐方法

<http://www.android-x86.org/documents/how-to-boot-the-android-x86-live-cd-when-you-have-problems-with-your-graphicscard>

修改启动参数：

```
kernel initrd=/initrd.img root=/dev/ram0
androidboot.hardware=generic_x86 acpi_sleep=s3_bios,s3_mode video=-16
quiet SRC= DATA= DPI=240
```

去除“quiet”选项，可查看kernel启动信息；  
增加“nomodeset”，不使kernel设置图形分辨率，让X设置；  
增加“xforcevesa”，为X强行使用VESA驱动；  
可用参数组合：“nomodeset”，“xforcevesa”，“nomodeset xforcevesa”

```
如果需要高分辨率，可手动配置grub启动选项：
vga=788 (800x600)
vga=791 (1024x768)
vga=794 (1280x1024)
vga=ask ( to see all available modes. )
Android只支持16-bit模式。
```

#### 使用的解决方案

```
“nomodeset vga=0x37E”
(37E 1920x1080x16 VESA)
```

#### 还可尝试

参数“HWACCEL=0” 在“video = xxx”之前；  
MESA ？

#### Reference

<http://grokbase.com/t/gg/android-x86/13183wrndv/help-android-x86-4-2-cant-boot-into-gui-just-command-line>  
<https://groups.google.com/forum/#!msg/android-x86/Xz6MHJHpOLw/QlxAehyZtuoJ>

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混合显卡配置

<https://help.ubuntu.com/community/HybridGraphics>



elliott10 commented 29 days ago • edited

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Linux 图形系统

**vesa** 一个支持大部分显卡的通用驱动，不提供任何 2D 和 3D 加速功能。  
**Uvesafb** 也是framebuffer 驱动，uvesafb 需要一个叫做 v86d 的用户空间虚拟化守护进程。可在非 x86 架构使用framebuffer 代码。它比标准的 vesafb 有更多的特性。

要充分发挥显卡性能，需安装厂商驱动程序。  
推荐使用开源驱动（需要**KMS**）：

Brand	Type	Driver	OpenGL	other
Intel	Open source	xf86-video-intel	mesa-libgl	i915 requires KMS
AMD/ATI	Open source	xf86-video-amdgpu/xf86-video-ati	mesa-libgl	radeon requires KMS
Nvidia	Open source	xf86-video-nouveau	mesa-libgl	Nouveau requires <a href="#">kernel mode setting(KMS)</a>

KMS冲突的内核启动参数：“vga=” “video=”，任何其它framebuffer drivers (如 uvesafb)。  
Intel Nvidia双显卡禁用KMS，内核启动参数：“nomodeset i915.modeset=0 nouveau.modeset=0”

Forcing Modes

```
video=<conn>:<xres>x<yres>[M][R][<bpp>][@<refresh>][i][m][eDd]

<conn>: Connector, e.g. DVI-I-1, see /sys/class/drm/ for available connectors
<xres> x <yres>: resolution
M: compute a CMT mode?
R: reduced blanking?
<bpp>: color depth
@<refresh>: refresh rate
i: interlaced (non-CMT mode)
m: margins?
e: output forced to on
d: output forced to off
D: digital output forced to on (e.g. DVI-I connector)
```

例，要强制 DVI 使用 1024x768 85 Hz ，同时禁用 TV-out：  
video=DVI-I-1:1024x768@85 video=TV-1:d  
查看所有connectors状态：/sys/class/drm/\*/status

Android-x86图形系统

Android uses framebuffer driver, no X

- vesa driver
- uvesa driver
- hardware driver - KMS, non-KMS

Use soft rendering by default

- Buggy for 1366x768
- Very slow in 32-bit color depth

Android-x86 implements hardware rendering using Mesa library

- Needs KMS driver

Android graphic system → drm\_galloc (HAL) → libGLES\_mesa → libdrm → Kernel KMS driver → GPU hardware`  
Support：Intel integrated graphic chip，AMD Radeon，Vmware? (vmwgfx)

- - - - -  
更改分辨率  
vesa driver  
vga=xxx, vga=ask

```
uvesa driver
UVESA_MODE=

hardware driver, no Mesa
video=1280x800-32

KMS + Mesa
setprop debug.drm.mode 1024x768
```



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