Ports - Bug #1036

Add more xf86-video"drivers".

2016-06-21 07:17 PM - GNUtoo

Status:	in progress	**% Done:**	80%
Priority:	wish		
Assignee:			
Category:			

Description

Hi,

After installing Parabola on ARM, I'm left with only the following xf86-video- Xorg "drivers":

- xf86-video-dummy: probably does nothing. Very useful to run headless Xorg applications.
- xf86-video-fbdev: Would probably work, with no acceleration and with very few features(no rotation).
- xf86-video-nouveau: Probably works on some Tegra.
- xf86-video-sisusb: Probably requires USB host.
- xf86-video-vesa: Probably useful for UEFI boot Fimrwares or coreboot on ARM.

xf86-video-modesetting is also probably integrated in Xorg already, so that might be a working option too.

Upstream has all theses drivers (Look for "X.Org drivers" at https://cgit.freedesktop.org/):
xf86-video-amdgpu: same comment than xf86-video-ati below.
xf86-video-apm
xf86-video-ark
xf86-video-armsoc: Seem really useful: It seem to implement generic 2D acceleration on ARM.
xf86-video-ast
xf86-video-ati: Would be useful only if users of boards with exposed pcie connectors and an adapter that goes from pcie1x to pcie16x and plug an ATI GPU in it. They then would need to feed the video BIOS to the radeon kenrel driver,in order to initialize the display (it needs some bytecode that resides in that video BIOS).
xf86-video-chips
xf86-video-cirrus
xf86-video-cyrix
xf86-video-geode
xf86-video-glide
xf86-video-glint
xf86-video-i128
xf86-video-i740
xf86-video-impact
xf86-video-imstt
xf86-video-intel
xf86-video-mach64
xf86-video-mga
xf86-video-modesetting: should be included in some other Xorg package already.
xf86-video-neomagic
xf86-video-nested
xf86-video-newport
xf86-video-nsc
xf86-video-nv: deprecated
xf86-video-omap: We should package it, many OMAP have free software bootloader. However we should check if it works as expected as two omap video drivers are present in both Linux and Xorg. The xf86-video-omapfb driver that I knew had XV acceleration and supported multiple screens.
xf86-video-opentegra: I never tried it, tegras are interesting ARM platforms: Some of them can boot with 100% free software.
xf86-video-p690
xf86-video-qxl: We should also compile it, since people might want to try parabola-arm in emulators. We should also compile its kernel counterpart. Same applies for all implemented video cards in qemu. I hope that such cards are available on ARM too.
xf86-video-r128
xf86-video-radeonhd: deprecated radeon driver. As a side note, it might be interesting to look if it can work without the non-free firmwares.
xf86-video-rendition
xf86-video-s3
xf86-video-s3virge
xf86-video-savage

xf86-video-siliconmotion
xf86-video-sis
xf86-video-sunbw2
xf86-video-suncg14
xf86-video-suncg3
xf86-video-suncg6
xf86-video-sunffb
xf86-video-sunleo
xf86-video-suntcx
xf86-video-tdfx
xf86-video-tga
xf86-video-trident
xf86-video-tseng
xf86-video-v4l
xf86-video-vermilion
xf86-video-vga
xf86-video-via
xf86-video-vmware: same comment than xf86-video-qxl, it's supported by qemu and libvirt.
xf86-video-voodoo
xf86-video-wayland
xf86-video-wsfb
xf86-video-xgi
xf86-video-xgixp

History

#1 - 2016-06-24 06:57 PM - Anonymous

- Related to Bug #910: Add Beaglebone black display driver if possible added

#2 - 2016-06-28 06:38 AM - isacdaavid

- Priority changed from bug to wish

- Assignee set to isacdaavid

#3 - 2016-06-30 10:01 PM - isacdaavid

- % Done changed from 0 to 50

- Status changed from open to in progress

xf86-video-armsoc-git, xf86-video-omap and xf86-video-omapfb are now available in [pcr]. It looks like xf86-video-freedreno was also packaged for [libre] a while back, so that gives us a total of 9 Xorg drivers for ARMv7 so far.

xf86-video-amdgpu, xf86-video-ati, xf86-video-radeonhd, xf86-video-qlx and xf86-video-vmware are low-hanging fruit too, I will be building these next. Arch ARM has some extra drivers that have not been mainlined at freedesktop.org, like xf86-video-imx and xf86-video-fbturbo. I guess they are free but you may know better; I'm going to look more closely.

xf86-video-opentegra needs to be packaged from scratch.

#4 - 2016-06-30 10:03 PM - isacdaavid

- % Done changed from 50 to 30

#5 - 2016-07-08 01:08 AM - isacdaavid

- % Done changed from 30 to 60

We are missing xf86-video-radeonhd, xf86-video-qlx, xf86-video-imx and xf86-video-opentegra relative to my last comment.

#6 - 2016-08-03 03:36 PM - isacdaavid

- % Done changed from 60 to 80

- Assignee deleted (isacdaavid)

turns out xf86-video-qxl depends upon spice[1] which in turn is unavailable for ARM.
I'm gonna stop adding more drivers until interest surfaces again. Please ping me if you want to see xf86-video-imx, xf86-video-opentegra or anything else.

#7 - 2017-02-08 12:36 AM - isacdaavid

- Related to deleted (Bug #910: Add Beaglebone black display driver if possible)