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PRINT

AUTHOR

TOPIC: PEPPERMINT 7 - SCREEN TEARING ON THE ATI OPEN SOURCE RADEON DRIVERS

PCNetSpec

Administrator
Hero



Posts: 26319

Karma: 65531

"-rw-rw-rw-" .. The Number Of
The Beast



Peppermint version(s):
Peppermint 10

Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« on: July 02, 2016, 03:24:40
pm »

[EDIT]

This fix appears to work only for those where:

Code: [Select]

```
inxi -G | grep -i driver
```

reports the driver(s) as radeon or ati,amdgpu

~~For those people where it reports ati,radeon I'm working on a solution and will add it when tested.~~

[EDIT 2]

For those where inxi reports ati,radeon and the fix doesn't work, keep reading ... there is now a possible solution later in the topic.

As we all know ATI/AMD are not putting any more work into their proprietary drivers (FGLRX), and because Ubuntu 16.04 (and anything based on it) uses xorg 1.18 the old proprietary fglrx drivers can no longer be installed.

So far I'm not really missing them, I've been mightily impressed with how far the open source radeon drivers have come since I last used them .. in fact once you make the necessary tweak to get steam installed and working:

<https://forum.peppermintos.com/index.php/topic,3739.0.html>

I haven't noticed any real difference between radeon and fglrx, except for one thing .. the "Tear Free" option that fglrx used to offer .. I've been suffering screen tearing with desktop effects enabled.

Anyway, here's how I fixed screen tearing on the open source radeon (and ati,amdgpu) drivers in Peppermint 7...

(I can't say this will work for everyone, but it sure works for me)

Open a terminal and run:

Code: [Select]

```
sudo pluma /usr/share/X11/xorg.conf.d/20-radeon.conf
```

When a BLANK file opens, make it read

Code: [Select]

```
Section "Device"
    Identifier "Radeon"
    Driver "radeon"
    Option "AccelMethod" "glamor"
    Option "DRI" "3"
    Option "TearFree" "on"
EndSection
```

SAVE the file, and exit pluma

Reboot.

To UNDO

Code: [Select]

```
sudo rm -v /usr/share/X11/xorg.conf.d/20-radeon.conf
```

You might want to check for screen tearing both before and after with this video

<https://www.youtube.com>

WARNING: You are logged into reality as 'root' .. logging in as 'insane' is the only safe option.

Team Peppermint

PCNetSpec

Bigoeuf

Member




Posts: 177

Karma: 30

New Forum User



Peppermint version(s): 8 & 7
(64bit)

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers


« Reply #1 on: July 02, 2016,
08:03:02 pm »


Morning Mark - had a look at this because I
have:

Code: [Select]

```
Graphics: Card: Advanced Micro Devices [AMD/ATI] RS4  
Display Server: X.Org 1.18.3 drivers: ati,  
GLX Renderer: Gallium 0.4 on ATI RS480 GLX
```

I did the youtube video screen tear test & indeed
it was tearing so I tried out your fix & on re-boot
it wouldn't reach the login screen (got as far as
the black screen with the file system check
script).

Had to do a hard-reboot - booted into live USB,
removed /usr/share/X11/xorg.conf.d/20-
radeon.conf from pepp 7 install, rebooted &
back to normal. Like you say Mark 'I can't say this
will work for everyone, but it sure works for me',
which is fair comment, but I would like if fixed if
possible - what do you recon?? (I'm using a Dell
Inspiron 1501 - slightly dated I know )

Cheers 

Timo


Member



Posts: 163

Karma: 37

Open Source is more than the

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #2 on: July 03, 2016,
02:55:55 am »

sum of its bytes



Peppermint version(s): PM7

Respin (64bit) & PM8 (64bit)

Thanks, worked for me.

Code: [Select]

```
CPU:      Quad core AMD A8-6410 APU with AMD Radeon
          clock speeds: max: 2000 MHz 1: 1200 MHz 2:
          4: 1600 MHz

Graphics: Card: Advanced Micro Devices [AMD/ATI] Mul
          Display Server: X.Org 1.18.3 driver: radeo
          Resolution: 1366x768@59.99hz
          GLX Renderer: Gallium 0.4 on AMD MULLINS (
          GLX Version: 3.0 Mesa 11.2.0
```

Yep the open source driver now without tearing has anything the proprietary had in Peppermint 6. Even connecting the laptop to a screen works after reboot (not sure if/how it's possible to get it to plug & play and it still breaks the touchscreen until the next reboot).

AMD might have worked on the open source driver I guess, the just released RX 480 had day one support and from what they said their new drivers should be open source anyways.

Logged

SantaFe

Jr. Member



Posts: 13

Karma: 1

New Forum User



Peppermint version(s):

Peppermint 10 Respin 64bit



Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #3 on: July 03, 2016,
03:00:21 am »

Quote from: Bigouef on July 02, 2016, 08:03:02 pm



Morning Mark - had a look at this because I have:

Code: [Select]


```
Graphics: Card: Advanced Micro Devices [AMD/A
          Display Server: X.Org 1.18.3 driver
          GLX Renderer: Gallium 0.4 on ATI RS
```

I did the youtube video screen tear test & indeed it was tearing so I tried out your fix & on re-boot it wouldn't reach the login screen (got as far as the black screen with the file system check script).

Had to do a hard-reboot - booted into live USB, removed /usr/share/X11/xorg.conf.d /20-radeon.conf from pepp 7 install,

rebooted & back to normal. Like you say Mark 'I can't say this will work for everyone, but it sure works for me', which is fair comment, but I would like if fixed if possible - what do you recon?? (I'm using a Dell Inspiron 1501 - slightly dated I know



Cheers 

That's weird, because my video card is this:

Code: [Select]

```
Advanced Micro Devices, Inc. [AMD/ATI] Caicos [Radeon
```

And this works fine. Funny thing is, I tried the solution here: <http://ajreissig.com/eliminate-screen-tearing-amd-graphics/> and had the same thing that you had happen to me. But in my case he had the file saved to /etc/X11/xorg.conf.d/ and also he echoed everything in one line.

 Logged

PCNetSpec

Administrator

Hero



Posts: 26319


Karma: 65531

"-rw-rw-rw-" .. The Number Of
The Beast



Peppermint version(s):

Peppermint 10

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #4 on: July 03, 2016,
03:20:25 am »

Code: [Select]

```
@Bigouef
```

Try making it just read

Code: [Select]

```
Section "Device"  
    Identifier "Radeon"  
    Driver "radeon"  
    Option "TearFree" "on"  
EndSection
```


 Logged

WARNING: You are logged into reality as 'root' .. logging in as 'insane' is the only safe option.

[Team Peppermint](#)

[PCNetSpec](#)

Bigouef

 Re: Peppermint 7 -
Screen tearing on

Member



Posts: 177

Karma: 30

New Forum User




Peppermint version(s): 8 & 7
(64bit)

the ATI open source

radeon drivers

« Reply #5 on: July 03, 2016,
04:25:22 am »

No joy with that either Mark  made it to the login screen which was total distorted & unreadable with what I would describe as horizontal tearing??

 Logged

PCNetSpec

Administrator

Hero




Posts: 26319

Karma: 65531

"-rw-rw-rw-" .. The Number Of
The Beast




Peppermint version(s):
Peppermint 10

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #6 on: July 03, 2016,
04:56:53 am »

I guess your only option is to disable desktop effects, or if you need compositing say for transparency for a dockbar to use compton as the compositor instead.

« *Last Edit: July 03, 2016, 04:58:46 am by PCNetSpec* » 

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WARNING: You are logged into reality as 'root' .. logging in as 'insane' is the only safe option.

[Team Peppermint](#)

[PCNetSpec](#)

Bigoeuf

Member




Posts: 177

Karma: 30


New Forum User



Peppermint version(s): 8 & 7
(64bit)

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #7 on: July 03, 2016,
05:26:19 am »

Hmmm - well turned off desktop effects to see if that would sort the 'screen tearing' - rebooted then ran your youtube video - no difference (still shows the lines distorting) 

 Logged

PCNetSpec

Administrator

Hero



Posts: 26319

Karma: 65531

"-rw-rw-rw-" .. The Number Of
The Beast



Peppermint version(s):

Peppermint 10

Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #8 on: July 03, 2016,
06:06:07 am »

Can we have your

Code: [Select]

```
inxi -F
```

output Bigouef ?

Logged

WARNING: You are logged into reality as 'root' .. logging in
as 'insane' is the only safe option.

[Team Peppermint](#)

[PCNetSpec](#)

Bigouef

Member



Posts: 177

Karma: 30

New Forum User



Peppermint version(s): 8 & 7
(64bit)

Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #9 on: July 03, 2016,
06:15:09 am »

You most certainly can:

[spoiler]

Code: [Select]

```
mick@mick-Inspiron-1501 ~ $ inxi -F
System:      Host: mick-Inspiron-1501 Kernel: 4.4.0-28-
             Distro: Peppermint Seven
Machine:     System: Dell product: Inspiron 1501
             Mobo: Dell model: 0UW744 Bios: Dell v: 1.7
CPU:         Single core AMD Turion 64 Mobile MK-36 (-U
Graphics:    Card: Advanced Micro Devices [AMD/ATI] RS4
             Display Server: X.Org 1.18.3 drivers: ati,
             GLX Renderer: Gallium 0.4 on ATI RS480 GLX
Audio:       Card Advanced Micro Devices [AMD/ATI] SBx0
             Sound: Advanced Linux Sound Architecture v
Network:     Card-1: Broadcom BCM4311 802.11b/g WLAN dr
             IF: wlan0 state: up mac: <filter>
             Card-2: Broadcom BCM4401-B0 100Base-TX dri
             IF: eth0 state: down mac: <filter>
Drives:     HDD Total Size: 62.1GB (19.0% used) ID-1:
```

[/spoiler]

« Last Edit: September 15, 2016, 04:52:00 am by Bigouef »

Logged

Bigouef

Member

Re: Peppermint 7 -
Screen tearing on
the ATI open source



Posts: 177

Karma: 30

New Forum User



Peppermint version(s): 8 & 7
(64bit)

radeon drivers

« Reply #10 on: July 05, 2016,
04:31:59 am »

Dont mean to pester you Mark cos I realise your
busy but did my

Code: [Select]

```
inxi -F
```

output throw up anything?

Logged

PCNetSpec

Administrator

Hero



Posts: 26319

Karma: 65531

"-rw-rw-rw-" .. The Number Of
The Beast



Peppermint version(s):
Peppermint 10



Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #11 on: July 05, 2016,
11:29:53 am »

Yeah, your graphics card is using the "ati" driver
not just "radeon", and

yours

GLX Version: 2.1 Mesa 11.2.0

mine

GLX Version: 3.0 Mesa 11.2.0

I'm just not sure how this affects screen tearing
and the fix yet .. still looking into it.

Maybe try

Code: [Select]

```
Section "Device"
    Identifier "Radeon"
    Driver "ati"
    Option "DRI" "2"
    Option "TearFree" "on"
EndSection
```

or maybe

Code: [Select]

```
Section "Device"
    Identifier "ATI Technologies, Inc. ATI Defau"
    Driver "ati"
    Option "DRI" "2"
    Option "TearFree" "on"
```


Or some combination of the two.

I think I have a system with an ATI R200 somewhere .. I'll see if I install PM7 and figure it out .. but it may be a few days.

« Last Edit: July 05, 2016, 11:45:24 am by PCNetSpec »



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Team Peppermint

PCNetSpec

Bigoeuf

Member



Posts: 177

Karma: 30

New Forum User



Peppermint version(s): 8 & 7
(64bit)



Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #12 on: July 06, 2016,
02:59:54 pm »

Cheers for your response Mark - tried both of those options for the config file & no joy - resulted in making it to the login screen which was total distorted & unreadable with what I would describe as horizontal tearing (like the one in the 03 July 2016, 11:20:25 post).

I tried your original code minus the

Code: [Select]

```
Option "AccelMethod" "glamor"
```

as I had do a little digging & apparently that function isnt available on older graphics cards (which is probably why I never made it to the login screen on my first try) but again that produced the same result as above also tried swapping Radeon with ATI as Device & Identifiern again with the same result. Regarding your last message Mark its difficult to see how I could further combine the 2 code options you gave as the only variable is on the 'Identifier' line & you have covered both (unless I combine them???) so I guess I'll leave it with you Mark when you have some free time available if

PCNetSpec

Administrator
Hero




Posts: 26319
Karma: 65531


"-rw-rw-rw-" .. The Number Of
The Beast



Peppermint version(s):
Peppermint 10

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #13 on: July 06, 2016,
05:12:08 pm »

Sure, I'll get around to testing on the R200 PC at
some point, just a little too busy to clear it off
ready for PM7 yet .. it has all the PM6 and PM7
build files on it, so I can't just wipe it 

WARNING: You are logged into reality as 'root' .. logging in
as 'insane' is the only safe option.

[Team Peppermint](#)

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Bigoef

Member




Posts: 177
Karma: 30

New Forum User



Peppermint version(s): 8 & 7
(64bit)

 Re: Peppermint 7 -
Screen tearing on
the ATI open source
radeon drivers

« Reply #14 on: July 07, 2016,
12:17:57 am »

Okey Dokey - cheers Mark 