



Rocky Enterprise Linux 9.2 Manual Pages on command 'amdgpu.4'

C:\>man amdgpu.4

AMDGPU(4) Kernel Interfaces Manual AMDGPU(4)

NAME

amdgpu - AMD RADEON GPU video driver

SYNOPSIS

Section "Device"

Identifier "devname"

Driver "amdgpu"

...

EndSection

DESCRIPTION

amdgpu is an Xorg driver for AMD RADEON-based video cards with the following features:

features:

? Support for 8-, 15-, 16-, 24- and 30-bit pixel depths;

? RandR support up to version 1.4;

? 3D acceleration;

SUPPORTED HARDWARE

The amdgpu driver supports SI and newer families' video cards.

CONFIGURATION DETAILS

Please refer to xorg.conf(5) for general configuration details. This section only covers configuration details specific to this driver.

The following driver Options are supported:

Option "SWcursor" "boolean"

Selects software cursor. The default is off.

Option "Accel" "boolean"

Enables or disables all hardware acceleration.

The default is on.

Option "ZaphodHeads" "string"

Specify the RandR output(s) to use with zaphod mode for a particular driver instance. If you use this option you must use this option for all instances of the driver.

For example: Option "ZaphodHeads" "LVDS,VGA-0" will assign xrandr outputs LVDS and VGA-0 to this instance of the driver.

Option "DRI" "integer"

Define the maximum level of DRI to enable. Valid values are 2 for DRI2 or 3 for DRI3. The default is 3 for DRI3 if the Xorg version is \geq 1.18.3, otherwise 2 for DRI2.

Option "EnablePageFlip" "boolean"

Enable DRI2 page flipping. The default is on.

Option "TearFree" "boolean"

Set the default value of the per-output 'TearFree' property, which controls tearing prevention using the hardware page flipping mechanism. TearFree is on for any CRTC associated with one or more outputs with TearFree on. Two separate scanout buffers need to be allocated for each CRTC with TearFree on. If this option is set, the default value of the property is 'on' or 'off' accordingly. If this option isn't set, the default value of the property is auto, which means that TearFree is on for rotated outputs, outputs with RandR transforms applied and for RandR 1.4 slave outputs, otherwise off.

Option "VariableRefresh" "boolean"

Enables support for enabling variable refresh on the Screen's CRTCs when a suitable application is flipping via the Present extension.

The default is off.

Option "AccelMethod" "string"

Setting this option to none disables use of the glamor acceleration architecture. In that case, all 2D rendering is done by the CPU, but 3D and video

hardware acceleration can still work. This is mainly useful for OpenGL driver bring-up.

The default is to use glamor.

The following driver Option is supported for glamor :

Option "ShadowPrimary" "boolean"

This option enables a so-called "shadow primary" buffer for fast CPU access to pixel data, and separate scanout buffers for each display controller (CRTIC). This may improve performance for some 2D workloads, potentially at the expense of other (e.g. 3D, video) workloads. Note in particular that enabling this option currently disables page flipping. The default is off.

SEE ALSO

Xorg(1), xorg.conf(5), Xserver(1), X(7)

1. Wiki page:

<https://www.x.org/wiki/radeon>

2. Overview about amdgpu development code:

<https://cgit.freedesktop.org/xorg/driver/xf86-video-amdgpu/>

3. Mailing list:

<https://lists.freedesktop.org/mailman/listinfo/amd-gfx>

4. IRC channel:

#radeon on irc.freenode.net

5. Query the bugtracker for amdgpu bugs:

<https://bugs.freedesktop.org/query.cgi?product=xorg&component=Driver/AMDgpu>

6. Submit bugs & patches:

https://bugs.freedesktop.org/enter_bug.cgi?product=xorg&component=Driver/AMDgpu

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