

NAME

nouveau – NVIDIA video driver

SYNOPSIS

```
Section "Device"
    Identifier "devname"
    Driver "nouveau"
    ...
EndSection
```

DESCRIPTION

nouveau is an Xorg driver for NVIDIA video cards. The driver supports 2D acceleration and provides support for the following framebuffer depths: (15,) 16 and 24. TrueColor visuals are supported for these depths.

SUPPORTED HARDWARE

The **nouveau** driver supports PCI, PCI-Express and AGP video cards based on the following NVIDIA chips:

RIVA TNT	NV4
RIVA TNT2	NV5
GeForce 256, QUADRO	NV10
GeForce2, QUADRO2	NV11 & NV15
GeForce3, QUADRO DCC	NV20
nForce, nForce2	NV1A, NV1F
GeForce4, QUADRO4	NV17, NV18, NV25, NV28
GeForce FX, QUADRO FX	NV30, NV31, NV34, NV35, NV36, NV37, NV38
GeForce 6XXX	NV40, NV41, NV43, NV44, NV45, C51
GeForce 7XXX	G70, G71, G72, G73

CONFIGURATION DETAILS

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

The driver auto-detects the chipset type and the amount of video memory present for all chips.

The following driver **Options** are supported:

Option "HWCursor" "boolean"

Enable or disable the HW cursor. Default: on.

Option "NoAccel" "boolean"

Disable or enable acceleration. Default: acceleration is enabled.

Option "ShadowFB" "boolean"

Enable or disable use of the shadow framebuffer layer. Default: off.

Option "WrappedFB" "boolean"

Enable or disable wfb, only affects nv50+. Useful for some legacy configurations where high rendering latency is perceived. Default: wfb is disabled.

Option "GLXVBlank" "boolean"

Synchronize GLX clients to VBlank. Useful where tearing is a problem, harmful if the GPU isn't fast enough to keep up with the monitor refresh rate. Default: off.

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 "PageFlip" "*boolean*"

Enable DRI2 page flipping. Default: on.

Option "SwapLimit" "*integer*"

Set maximum allowed number of pending OpenGL double-buffer swaps for a drawable before a client is blocked.

A value of 1 corresponds to double-buffering. A value of 2 corresponds to triple-buffering. Higher values may allow higher framerate, but also increase lag for interactive applications, e.g., games. Nouveau currently reliably supports a maximum value of 2 on XOrg 1.12+. A maximum setting of 2 on older x-servers is allowed, but it will break conformance with the OpenML OML_sync_control specification and will cause failure of software that relies on correct presentation timing behaviour as defined in that specification.

Default: 2 for XOrg 1.12+, 1 for older servers.

SEE ALSO

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

AUTHORS

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