

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, MCP61**GeForce 7XXX** G70, G71, G72, G73, MCP67, MCP68, MCP73**GeForce 8XXX, 9XXX, 2XX, 3XX**
G80, G84, G86, G92, G94, G96, G98, G200, GT215, GT216, GT218,
MCP77, MCP79, MCP89**GeForce 4XX, 5XX** GF100, GF104, GF106, GF108, GF110, GF114, GF116, GF117, GF119**GeForce 6XX, 7XX** GK104, GK106, GK107, GK110, GK208**GeForce GTX 750** GM107**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 AccelMethod *string*

Specify the acceleration method. One of none, exa, or glamor. Default: exa, except for GMxxx which default to glamor.

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: 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 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: 1.

SEE ALSO

[Xorg\(1\)](#), [xorg.conf\(5\)](#), [Xserver\(1\)](#), [X\(7\)](#)

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