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

\$ man nouveau.4

NOUVEAU(4) Kernel Interfaces Manual NOUVEAU(4)

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 visu? als 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, GM108

GeForce GTX 9XX GM200, GM204, GM206

GeForce GTX 10XX GP102, GP104, GP106, GP107, GP108

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", or "exa". Default: exa.

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 in?

stance. 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 OpenGL OML_sync_control specification and will cause failure of software that relies on correct presentation timing behaviour as defined in that specification.

Default: 1.

Option "DRI" "integer"

Define the maximum level of DRI to enable. Valid values are 2 or 3. exa acceleration will honor the maximum level if it is supported. Default: 2.

SEE ALSO

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

AUTHORS

Authors include: David McKay, Jarno Paananen, Chas Inman, Dave Schmenk, Mark Vojkovich

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