HOWTO: Óñòàííâêà äðàéâåðîâ nVidia äëÿ ïïëüçîâàòåëåé SUSE LINUX
Ðàçäåë : Ñèñòåìà. Àäìèíèñòðèðâàíèå
Îïóáëèêîâàíî NULL [17/11/2008]

Ïîñëåäíåå îáíîâëåíèå: Âîñêðåñåíüå, 19 îêòÿáðÿ 2008 ãîäà â 13:21:41

Îò ïðàâàîä÷èêà:
Âòî ðøèëè ïîððàâåñòè, ÷òîáû ëèøíèõ âîïðîñîâ íè ó êîãî íå âîçíèêàëî. Åñëè óæ è ïîñëå ýòîãî íè÷åãî íå ïîëó÷èòñÿ, òî âàðèàíòîâ ÿ âèæó äâà: èëè ïïäêëþ÷èòü âûñîêîêâàëèôèöèðòîíè è ñòàáèëüíûé äîñòóï â èíòåðíåò, èëè îáíîâèòü äðàéâåðà äëÿ /dev/hands è /dev/brain. Åñëè ýòè óñòðîéñòâà íå ïïäàâåëÿþòñÿ â âàøåé ñèñòåìå, àâòîðû howto è ïðàâåâî÷êè ïîìî÷ü íå ìîãóò.
Â òåêñòå âñòðå÷àþòñÿ Yast è Yast2. Â äàííîì êîíòåêñòå ýòî îäíî è òî æå, ò.ê. è â 11.0 è â 10.3 èñïïîëüçóåòñÿ Yast2.
Ðóêîâîäñòâà äëÿ SLES è SLE òîæå íè÷åì íå îòëè÷àþòñÿ. Âîîáùå ãîâîðÿ, íå SLE, à SLED -SuSE Linux Enterprise Desktop.
"Nvidia installer" ÿ ïððâå¸ë êàê nvidia èíñòàëëÿòîð, ò.ê. " óñòàíîâùèê óñòàíàâëèâàâàò" íå ñîâñàì ïî-ðóññêè.
"Latest and greatest nvidia driver" ïðåðâå¸ë êàê ïïñëåäíåå è âàæûå, ò.ê. ó ñëîâà "gratest" åñòü è äðóãèå çíà÷åíèÿ, êðîìå êàê "âåëè÷àéøèé".
"Affected" – òðîíóòûé, çàäåòûé, íàõîäÿùèéñÿ ïïä âëèÿíèåì. Çäåñü èñïïîëüçóåòñÿ â êîíòåêñòå "Åñëè òåáÿ ýòî íàïðÿãààò". ß ïððâå¸ë êàê "êàñàåòñÿ".
Âòî ññûëêà íà ñàéò ñ ýòèì HOWTO íà àíãëèéñêîì ÿçûêå.
http://www.suse.de/~sndirsch/nvidia-installer-HOWTO.html

Ýòîò äîêóìåíòî ïïèñûâàåò êàê èñïïîëüçîâàòü íîâûé èíñòàëëÿòîð nvidia (nvidia installer) äëÿ óñòàíîâêè ïïîñëåäíåãî äðàéâåðà nvidia, êîòîðûé äîïóóìåí äëÿ âàøåé ñèñòåìû SUSE LINUX.
Ïðèìà÷àíèå: Èíñòàëëÿòîð nvidia íå ðàåíîààåò, ïïêà ðàáîòàåò Xserver çàïóùåí è çàãðóçåí ìîäóëü ÿäðà nvidia. Ïîýòîìî, ïïæàëóéñóñà çàãðóæàéòåñü â **runlevel 3**, óêàçûâàÿ **"3"** êàê îïöèþ çàãðóçêè ÿäðà, èëè ïïåðåëþ÷àéòåñü â óðîâåíü çàïóñêà **3 (init 3)** è âûãðóæàéòåñü ìîäóëü ÿäðà nvidia (rmmod nvidia) ïåðåä çàïóñêîì èíñòàëëÿòîðà nvidia.

 **OpenSuSE 11.0-IA32**

Ðåêîìåíäóåòñÿ èñïïîëüçîâàòü Yast äëÿ óñòàíîâêè äðàéâåðà NVIDIA. Åñòü íåñêîëêî ïðè÷èí äëÿ ýòîãî. Âî-ïåðâûõ, ýòî ïðîñòî. Âî-âòîðûõ, è ýòî ñàìîå âàæíîå, âû íå äîëæíû áóäåòå ïåðåêîìïèëèèðîâàòü ìîäóëü ÿäðà nvidia ïîñëå îáíîâëåíèÿ ÿäðà.
Îáíîâèòå âàøå ÿäðî ñ ïïîìùüþ YOU (Yast Online Update). Èñïïîëüçóéòå
YaST -> Software (Ïðîãðàììíîå îáåñïà÷åíèå) -> Software Repositories (Ðåïîçèòîðèè ïðîãðàììíîãî îáåñïà÷åíèÿ) -> Add(Äîáàâèòü)
Protocol (Ïðîòîêîë): HTTP
Server Name (Èìÿ ñåðâåðà): : download.nvidia.com
Directory on Server (Êàòàëîã íà ñåðâåðå): /opensuse/11.0
äëÿ äîáàâëåíèÿ http-ñåðâåðà NVIDIA êàê äîïïîëíèòåëüíîãî ðåñóðñà óñòàíîâêè.
YaST -> Software (Ïðîãðàììíîå îáåñïà÷åíèå) -> Software Management (Óïðàâëåíèå ïðîãðàììíûì îáåñïà÷åíèì)

äëÿ óñòàíîâêè äðàéâåðà NVIDIA. Ïðïïðèêàòðíûå ïàêåòû NVIDIA áóäóò âûáðàíû àâòîìàòè÷åñêè, åñëè âàøà êàðòà ïïäàåäðæèâàåòñÿ. Âàðèàíòû:

a) x11-video-nvidia + nvidia-gfx-kmp-(kernel_flavor)

èëè

b) x11-video-nvidiaG01 + nvidia-gfxG01-kmp-(kernel_flavor)

Åñëè äîïîëíèòåëüíûå ïàêåòû íå áûëè âûáðàíû àâòîìàòè÷åñêè, âàøà êàðòà íå ïïäàäåðæèâàåòñÿ äðàéâåðîì (RPMs) â íàñòîÿùèé ìîìåíò.

Èñïîëüçóéòå **"sax2 -r"** äëÿ íàñòðîéêè êîíôèãóðàöèè X.Org.

Ëþäè, êîòîðûå íå áîÿùññÿ ïåðåñááðàòü ìîäóëè ÿäðà nvidia, èëè äàæå ïïäåóñòàíàâëèâàþò äðàéâåð NVIDIA êàæûé ðàç êîãäà îáíîâëÿþò ÿäðî è õîòÿò èëè íóæäàþòñÿ â èñïîëüçîâàíèè ïîñëåäíèõ è âàæíûõ (!) (greatest) äðàéâåðà NVIDIA ìîãóò èñïîëüçîâàòü ñëåäóþùèå øàãè 1-3. Îñòàëüíûå äîëæíû èñïîëüçîâàòü èíñòðóêöèè âûøå, èñïîëüçîâàòü Yast è ïðîïóñòèòü øàãè íèæå.

1. Èñõîäíèêè ÿäðà (Kernel sources) äîëæíû áûòü óñòàíîâëåíû è íàñòðîåíû. Íàáó÷íî ýòî îçíà÷àåò óñòàíîâêó 'kernel-source', 'make' è 'gcc' ïàêåòû ñ ïîìîùüþ Yast2.

2. Èñïîëüçóéòå èíñòàëëÿòîð nvidia äëÿ 173.14.12

3. **sh NVIDIA-Linux-x86-173.14.12-pkg1.run -q**

4. Íàñòðîéòå X.Org ñ ïîìîùüþ

5. **sax2 -r -m 0=nvidia** (0 ýòî öèôðà, à íå áóêâà!)

Ïðèìå÷àíèå: Íåò íåîáõîäèìîñòè ïûòàòüñÿ âêëþ÷èòü ïïäàäåðæêó 3D. Îíà óæå âêëþ÷åíà, êîãäà çàïóùåí äðàéâåð NVIDIA.

Âàæíî: Âàì íåîáõîäèìî ïåðåñááðàòü è óñòàíîâëèâàòü ìîäóëü ÿäðà nvidia, ïîñëå êàæäîãî îáíîâëåíèÿ ÿäðà.

sh NVIDIA-Linux-x86-173.14.12-pkg1.run -K

 **OpenSuSE 11.0-AMD32**
Îò ïåðåâî÷èêà: Çäåñü âñ¸ àíàëîãè÷íî, ðàçëè÷èÿ ëèøü â íàçâàíèÿõ íåîáõîäèìûõ ïàêåòîâ.

 **OpenSuSE 10.3-IA32**
Ðåêîìåíäóåòñÿ èñïîëüçîâàòü Yast äëÿ óñòàíîâêè äðàéâåðà NVIDIA. Åñòü íåñêîëüêî ïðè÷èí äëÿ ýòîãî. Âî-ïðâûõ, ýòî ïðîñòî. Âî-âòîðûõ, è ýòî ñàìîå âàæíîå, âû íå äîëæíû áóäåòå ïåðåêîìïèëèðîâàòü ìîäóëü ÿäðà nvidia ïîñëå îáíîâëåíèÿ ÿäðà.

Îáíîâèòå âàøå ÿäðî ñ ïîìîùüþ YOU (Yast Online Update). Èñïîëüçóéòå

YaST -> Software (Ïðîãðàììíîå îáåñïå÷åíèå) -> Software Repositories (Ðåïîçèòàðèè ïðîãðàììíîãî îáåñïå÷åíèÿ) -> Add (Äîáàâèòü)

Protocol (Ïðîòîêîë): HTTP

Server Name (Èìÿ ñåðâåðà): : download.nvidia.com

Directory on Server (Êàòàëîã íà ñåðâåðå): /opensuse/11.0

äëÿ äîáàâëåíèÿ http-ñåðâåðà NVIDIA êàê äîïîëíèòåëüíîãî ðåñóðñà óñòàíîâêè.

YaST -> Software (Ïðîãðàììíîå îáåñïå÷åíèå) -> Software Management (Óïðàâëåíèå ïðîãðàììíûì îáåñïå÷åíèì)

äëÿ óñòàíîâêè äðàéâåðà NVIDIA. Âûáåðèòå ñëåäóþùèå ïàêåòû:

x11-video-nvidiaG01

Óñòàíîâêà â îäèí êëèê:

Åñëè âû âëàäåëåö îäíîãî èç ñëåäóþùèõ ãðàôè÷åñêèõ ïðîöåññîðîâ NVIDIA:

0x0110 GeForce2 MX/MX 400
0x0111 GeForce2 MX 100/200
0x0112 GeForce2 Go
0x0113 Quadro2 MXR/EX/Go
0x0170 GeForce4 MX 460
0x0171 GeForce4 MX 440
0x0172 GeForce4 MX 420
0x0173 GeForce4 MX 440-SE
0x0174 GeForce4 440 Go
0x0175 GeForce4 420 Go
0x0176 GeForce4 420 Go 32M
0x0177 GeForce4 460 Go
0x0178 Quadro4 550 XGL
0x0179 GeForce4 440 Go 64M
0x017A Quadro NVS
0x017C Quadro4 500 GoGL
0x017D GeForce4 410 Go 16M
0x0181 GeForce4 MX 440 with AGP8X
0x0182 GeForce4 MX 440SE with AGP8X
0x0183 GeForce4 MX 420 with AGP8X
0x0185 GeForce4 MX 4000
0x0188 Quadro4 580 XGL
0x018A Quadro NVS 280 SD
0x018B Quadro4 380 XGL
0x018C Quadro NVS 50 PCI
0x01A0 GeForce2 Integrated GPU
0x01F0 GeForce4 MX Integrated GPU
0x0200 GeForce3
0x0201 GeForce3 Ti 200
0x0202 GeForce3 Ti 500
0x0203 Quadro DCC
0x0250 GeForce4 Ti 4600
0x0251 GeForce4 Ti 4400
0x0253 GeForce4 Ti 4200
0x0258 Quadro4 900 XGL
0x0259 Quadro4 750 XGL
0x025B Quadro4 700 XGL
0x0280 GeForce4 Ti 4800
0x0281 GeForce4 Ti 4200 with AGP8X
0x0282 GeForce4 Ti 4800 SE
0x0286 GeForce4 4200 Go
0x0288 Quadro4 980 XGL
0x0289 Quadro4 780 XGL
0x028C Quadro4 700 GoGL

âûáåðèòå âìåñòî ýòîãî ïàêåòû:

x11-video-nvidia

Óñòàíîâêà â îäèí êëèê:

http://opensuse-community.org/nvidia-legacy.ymp

Èñïîëüçóéòå **"sax2 -r"** äëÿ íàñòðîéêè êîíôèãóðàöèè X.Org.

Ëþäè, êîòîðûå íå áîÿòüñÿ ïàðåíñêèòàòü ìîäóëü ÿäðà nvidia, èëè äàæå ïàðåóñòàíàâëèâàþò äðàéâåð NVIDIA êàæäûé ðàç êîãäà îáíîâëÿþò ÿäðî è õîòÿò èëè íóæäàþòñÿ â èñïîëüçîâàíèè ïîñëåäíèõ è âàæíûõ (!) (greatest) äðàéâåðîâ NVIDIA ìîãóò èñïîëüçîâàòü ñëåäóþùèå øàãè 1-3. Îñòàëüíûå äîëæíû èñïîëüçîâàòü èíñòðóêöèè âûøå, èñïîëüçîâàòü Yast è ïðîãíîñòèòü øàãè íèæå.

1. Èñõîäíèêè ÿäðà (Kernel sources) äîëæíû áûòü óñòàíîâëåíû è íàñòðîéíû. Îáû÷íî ýòî îçíà÷àåò óñòàíîâêó 'kernel-source', 'make' è 'gcc' ïàêåòû ñ ïîìîùüþ Yast2.

2. Èñïîëüçóéòå èíñòàëëÿòîð nvidia äëÿ 173.14.12

3. **sh NVIDIA-Linux-x86-173.14.12-pkg1.run -q**

4. Íàñòðîéòå X.Org ñ ïîìîùüþ

5. sax2 -r -m 0=nvidia (0 ýòî öèôðà, à íå áóêâà!)

Ïðèìà÷àíèå: Íàò íåîáõîäèìîñòè ïûòàòüñÿ âêëþ÷èòü ïîääåðæêó 3D. Îíà óæå âêëþ÷åíà, êîãäà çàïóùåí äðàéâåð NVIDIA.

Âàæíî: Âàì íåîáõîäèìî ïåðåñîáðàòü è óñòàíàâëèâàòü ìîäóëü ÿäðà nvidia, ïîñëå êàæäîãî îáíîâëåíèÿ ÿäðà.

sh NVIDIA-Linux-x86-173.14.12-pkg1.run -K

 **OpenSuSE 10.3-AMD32**

Îò ïåðåâî÷èêà: Ìîÿüò æå âņ̃ àíàëîãè÷íî, ðàçëè÷èÿ ëèøü â íàçâàíèÿõ íåîáõîäèìûõ ïàêåòîâ.

 **Ïîääåðæêà ñòàðûõ âèäåîêàðò**

nVidia ïðåêðàòèëà ïîääåðæêó ñòàðûõ âèäåîêàðò íà÷èíàÿ ñ ðåëèçà 1.0-9746. Íà äàííûé ìîìåíò ýòî:

Âèäåîêàðòà NVIDIA	PCI ID óñòðîéñòâà
GeForce2 MX/MX 400	0x0110
GeForce2 MX 100/200	0x0111
GeForce2 Go	0x0112
Quadro2 MXR/EX/Go	0x0113
GeForce4 MX 460	0x0170
GeForce4 MX 440	0x0171
GeForce4 MX 420	0x0172
GeForce4 MX 440-SE	0x0173
GeForce4 440 Go	0x0174
GeForce4 420 Go	0x0175
GeForce4 420 Go 32M	0x0176
GeForce4 460 Go	0x0177
Quadro4 550 XGL	0x0178
GeForce4 440 Go 64M	0x0179
Quadro NVS	0x017A
Quadro4 500 GoGL	0x017C
GeForce4 410 Go 16M	0x017D
GeForce4 MX 440 with AGP8X	0x0181
GeForce4 MX 440SE with AGP8X	0x0182
GeForce4 MX 420 with AGP8X	0x0183

GeForce4 MX 4000	0x0185
Quadro4 580 XGL	0x0188
Quadro NVS 280 SD	0x018A
Quadro4 380 XGL	0x018B
Quadro NVS 50 PCI	0x018C
GeForce2 Integrated GPU	0x01A0
GeForce4 MX Integrated GPU	0x01F0
GeForce3	0x0200
GeForce3 Ti 200	0x0201
GeForce3 Ti 500	0x0202
Quadro DCC	0x0203
GeForce4 Ti 4600	0x0250
GeForce4 Ti 4400	0x0251
GeForce4 Ti 4200	0x0253
Quadro4 900 XGL	0x0258
Quadro4 750 XGL	0x0259
Quadro4 700 XGL	0x025B
GeForce4 Ti 4800	0x0280
GeForce4 Ti 4200 with AGP8X	0x0281
GeForce4 Ti 4800 SE	0x0282
GeForce4 4200 Go	0x0286
Quadro4 980 XGL	0x0288
Quadro4 780 XGL	0x0289
Quadro4 700 GoGL	0x028C

Åñëè ýòî Âàñ êàñàåòñÿ, èñïîëüçóéòå ðåëèç 96.43.01.

 **Ïîääåðæêà î÷åíü ñòàðûõ âèäåîêàðò (GeForce2 è ñòàðøå)**

nVidia ïðåêðàòèëà ïîääåðæêó î÷åíü ñòàðûõ âèäåîêàðò íà÷èíàÿ ñ ðåëèçà 1.0-7664. Â íàñòîÿùåå âðåìÿ ýòî:

Âèäåîêàðòà NVIDIA	PCI ID óñòðîéñòâà
RIVA TNT	0x0020
RIVA TNT2/TNT2 Pro	0x0028
RIVA TNT2 Ultra	0x0029
Vanta/Vanta LT	0x002C
RIVA TNT2 Model 64/Model 64 Pro	0x002D
Aladdin TNT2	0x00A0
GeForce 256	0x0100
GeForce DDR	0x0101
Quadro	0x0103
GeForce2 GTS/GeForce2 Pro	0x0150
GeForce2 Ti	0x0151
GeForce2 Ultra	0x0152
Quadro2 Pro	0x0153

Åñëè ýòî Âàñ êàñàåòñÿ, èñïîëüçóéòå ðåëèç 71.86.01.

 **Ññûëêè**

Âåá-ñàéò äðàéâåðîâ nVidia

http://www.nvidia.com/object/linux_display_ia32_173.14.12.html

http://www.nvidia.com/object/linux_display_x86_96.43.01.html (ñòàðûå âèäåîêàðòû)
http://www.nvidia.com/object/linux_display_x86_71.86.01.html (î÷åíü ñòàðûå âèäåîêàðòû)
http://www.nvidia.com/object/linux_display_amd64_173.14.12.html
http://www.nvidia.com/object/linux_display_amd64_96.43.01.html (ñòàðûå âèäåîêàðòû)
http://www.nvidia.com/object/linux_display_amd64_71.86.01.html (î÷åíü ñòàðûå âèäåîêàðòû)
Âåðñèè äðàéâåðîâ nVidia
http://download.nvidia.com/XFree86/Linux-x86/173.14.12/NVIDIA-Linux-x86-173.14.12-pkg1.run
http://download.nvidia.com/XFree86/Linux-x86/96.43.01/NVIDIA-Linux-x86-96.43.01-pkg1.run
(ñòàðûå âèäåîêàðòû)
http://download.nvidia.com/XFree86/Linux-x86/71.86.01/NVIDIA-Linux-x86-71.86.01-pkg1.run (î÷åíü ñòàðûå âèäåîêàðòû)
http://download.nvidia.com/XFree86/Linux-x86_64/173.14.12/NVIDIA-Linux-x86_64-173.14.12-pkg2.run
http://download.nvidia.com/XFree86/Linux-x86_64/96.43.01/NVIDIA-Linux-x86_64-96.43.01-pkg2.run (ñòàðûå âèäåîêàðòû)
http://download.nvidia.com/XFree86/Linux-x86_64/71.86.01/NVIDIA-Linux-x86_64-71.86.01-pkg2.run (ñòàðûå âèäåîêàðòû)

 **Ïîääåðæêà**
Åñëè ó Âàñ åñòü âîïðîñû èëè ïðîáëåìû, ïîñåòèéòå ïîñåòèòå ôîðóì îáñóæäåíÿ Linux (
http://www.nvnews.net/vbulletin/forumdisplay.php?s=&forumid=14). Åñëè Âû íå íàøëè îòâåòà íà ñâîé
âîïðîñ òàì, âû ìîæåòå îòïðàâèòü ýëåêòðîííîå ïèñüìî (ïî-àíãëèéñêè) íà àäðåñ: linux-bugs@nvidia.com.
Êîãäà áóäåòå ïèñàòü íà linux-bugs@nvidia.com, ïðèëîæèòå ïðèêðåïèòå nvidia-bug-report.log,
êîòîðûé ãåíåðèðóåòñÿ çàïóñêîì 'nvidia-bug-report.sh'.
Ðàçðàáîò÷èêè ñ âîïðîñàìè ïî ïðîãðàììèðîâàíèþ ãðàôè÷åñêèõ ïðîöåññîâ, ïðèëîæèòå èñïîëüçóéòå
âåá-ñàéò ðàçðàáî÷èê NVIDIA
http://developer.nvidia.com/
à òàêæå ïîääåðæêó ðàçðàáîò÷èêîâ NVIDIA ïî å-mail:
SDKFeedback@nvidia.com

Îáñóæäåíèå ñòàòüè-ïðåàâîäà ÇÄÅÑÜ

Îò ïåðåâîä÷èêà: åñëè âû íàøëè êàêèå-òî íåòî÷íîñòè â ïåðåâîäå – ïèøèòå â ëè÷êó.

(c) NULL
November, 13, 2008