

UBUNTU: ASUS y NVIDIA

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Realizado con: **L^AT_EX**

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1. Introducción

Vamos a ver la configuración de un equipo con:

- Tarjeta base asus M2N-SLI
- Tarjeta Gráfica NVIDIA GeForce 8600GT
EN8600GT 512MB DDR2

<http://www.asus.com/products.aspx?l1=2&l2=6&l3=514&l4=0&model=1896&modelmenu=1>

Garantía: 3 años.

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EN8600GT MAGIC/HTDP/512M



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Figura 1: EN8600GT MAGIC/HTP/512M/A

EN8600GT MAGIC/HTP/512M/A

- Procesador AMD Phenom(tm) 9750 Quad-Core

Con 4 procesadores de 1200.000 MHz

<http://products.amd.com/en-us/DesktopCPUDetail.aspx?id=397&f1=&f2=&f3=&f4=&f5=&f6=&f7=&f8=&f9=&f10=&f11=>

Processor AMD Phenom X4 Quad-Core

Model 9750

OPN Tray HD9750XAJ4BGH

OPN PIB HD9750XAGHBOX

Operating Mode 32 Bit Yes

Operating Mode 64 Bit Yes

Revision B3

Core Speed (MHz) 2400

Voltages 1.20/1.25/1.30V

Max Temps (C) 61 C

Wattage 125 W

L1 Cache Size (KB) 128

L1 Cache Count 4

L2 Cache Size (KB) 512

L2 Cache Count 4
L3 Cache Size (KB) 2048
CMOS 65nm SOI
Socket AM2+
AMD Business Class No
Black Edition No

- Caja NZXT
Ver imagen 2 pagina 3



Figura 2: nzxt

- Ubuntu 8.1

2. Sensaciones

Es muy silenciosa, el procesador se ajusta la la velocidad que necesita reduciendo el consumo. Ubuntu 8.1 detecto todo a la primera.

3. La placa

La placa ASUS, Modelo M2N-SLI, socket AM2

<http://es.asus.com/products.aspx?l1=3&l2=101&l3=370&l4=0&model=1266&modelmenu=>

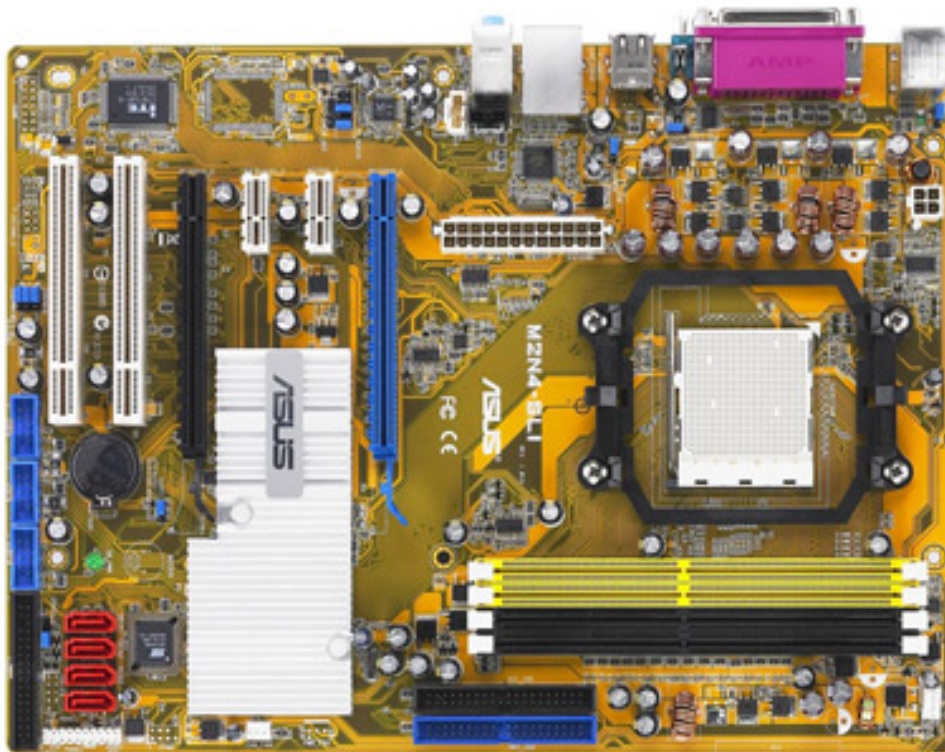
1

M2N4-SLI AMD Live! Ready:

- Soporte AMD® Socket AM2 CPU
- Tecnología NVIDIA® nForce4 SLI

- Dual channel DDR2 800
- ASUS Q-Connector
- ASUS CrashFree BIOS 3

M2N4-SLI



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Figura 3: placa asus

Fue actualizada por usb la bios para soportar el procesador
<http://support.asus.com/download/download.aspx?SLanguage=es-es>
M2N-SLI BIOS version

Initial BIOS.

Tamaño Archivo 434.13 (KBytes)

2007/11/21 Actualizado

lspci

00:00.0 Memory controller: nVidia Corporation CK804 Memory Controller (rev a3)

00:01.0 ISA bridge: nVidia Corporation CK804 ISA Bridge (rev f3)

00:01.1 SMBus: nVidia Corporation CK804 SMBus (rev a2)
00:02.0 USB Controller: nVidia Corporation CK804 USB Controller (rev a2)
00:02.1 USB Controller: nVidia Corporation CK804 USB Controller (rev a3)
00:06.0 IDE interface: nVidia Corporation CK804 IDE (rev f2)
00:07.0 IDE interface: nVidia Corporation CK804 Serial ATA Controller (rev f3)
00:08.0 IDE interface: nVidia Corporation CK804 Serial ATA Controller (rev f3)
00:09.0 PCI bridge: nVidia Corporation CK804 PCI Bridge (rev f2)
00:0a.0 Bridge: nVidia Corporation CK804 Ethernet Controller (rev f3)
00:0b.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev f3)
00:0c.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev f3)
00:0d.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev f3)
00:0e.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev a3)
00:18.0 Host bridge: Advanced Micro Devices [AMD] Family 10h [Opteron, Athlon64, Sempron] HyperTransport Configuration
00:18.1 Host bridge: Advanced Micro Devices [AMD] Family 10h [Opteron, Athlon64, Sempron] Address Map
00:18.2 Host bridge: Advanced Micro Devices [AMD] Family 10h [Opteron, Athlon64, Sempron] DRAM Controller
00:18.3 Host bridge: Advanced Micro Devices [AMD] Family 10h [Opteron, Athlon64, Sempron] Miscellaneous Control
00:18.4 Host bridge: Advanced Micro Devices [AMD] Family 10h [Opteron, Athlon64, Sempron] Link Control
01:01.0 FireWire (IEEE 1394): VIA Technologies, Inc. VT6306 Fire II IEEE 1394 OHCI Link Layer Controller (rev c0)
05:00.0 VGA compatible controller: nVidia Corporation GeForce 8600GT (rev a1)

4. Los módulos

```
lsmod
Module Size Used by
binfmt_misc 16904 1
bridge 56980 0
stp 10628 1 bridge
bnep 20480 2
rfcomm 44432 0
sco 18308 2
l2cap 30464 6 bnep,rfcomm
bluetooth 61924 6 bnep,rfcomm,sco,l2cap
af_packet 25728 2
ppdev 15620 0
powernow_k8 22148 0
sbs 19464 0
pci_slot 12552 0
sbsbc 13440 1 sbs
container 11520 0
```

video 25104 0
output 11008 1 video
wmi 14504 0
battery 18436 0
cpufreq_ondemand 14988 4
cpufreq_powersave 9856 0
cpufreq_stats 13188 0
freq_table 12672 3 powernow_k8,cpufreq_ondemand,cpufreq_stats
cpufreq_conservative 14600 0
cpufreq_userspace 11396 0
ipv6 263972 16
iptables_filter 10752 0
ip_tables 19600 1 iptables_filter
x_tables 22916 1 ip_tables
nls_iso8859_1 12032 3
nls_cp437 13696 3
vfat 18816 3
fat 57376 1 vfat
ac 12292 0
it87 28304 0
hwmon_vid 11264 1 it87
sbp2 29324 0
lp 17156 0
snd_usb_audio 89728 3
snd_pcm_oss 46848 0
snd_mixer_oss 22784 1 snd_pcm_oss
snd_pcm 83204 2 snd_usb_audio,snd_pcm_oss
snd_page_alloc 16136 1 snd_pcm
snd_usb_lib 24192 1 snd_usb_audio
snd_hwdep 15236 1 snd_usb_audio
snd_seq_dummy 10884 0
snd_seq_oss 38528 0
snd_seq_midi 14336 0
snd_rawmidi 29824 2 snd_usb_lib,snd_seq_midi
snd_seq_midi_event 15232 2 snd_seq_oss,snd_seq_midi
snd_seq 57776 6 snd_seq_dummy,snd_seq_oss,snd_seq_midi,snd_seq_midi_event
snd_timer 29960 2 snd_pcm,snd_seq
snd_seq_device 15116 5 snd_seq_dummy,snd_seq_oss,snd_seq_midi,snd_rawmidi,snd_seq
snd 63268 16
snd_usb_audio,snd_pcm_oss,snd_mixer_oss,snd_pcm,snd_hwdep,snd_seq_oss,snd_rawmidi,snd_seq,snd_timer,snd
soundcore 15328 1 snd
nvidia 7103300 34
agpgart 42184 1 nvidia
parport_pc 39204 1
parport 42604 3 ppdev,lp,parport_pc
i2c_nforce2 14468 0

```
pcspkr 10624 0
shpchp 37908 0
button 14224 0
pci_hotplug 35236 1 shpchp
i2c_core 31892 2 nvidia,i2c_nforce2
evdev 17696 6
ext3 133384 2
jbd 55444 1 ext3
mbcache 16004 1 ext3
sr_mod 22212 0
cdrom 43168 1 sr_mod
sd_mod 42264 10
crc_t10dif 9984 1 sd_mod
sg 39732 0
usbhid 35840 0
pata_acpi 12160 0
hid 50560 1 usbhid
pata_amd 18692 8
ohci1394 37936 0
ieee1394 96324 2 sbp2,ohci1394
ata_generic 12932 0
sata_nv 30600 0
forcedeth 61328 0
libata 177312 4 pata_acpi,pata_amd,ata_generic,sata_nv
scsi_mod 155212 5 sbp2,sr_mod,sd_mod,sg,libata
ehci_hcd 43276 0
dock 16656 1 libata
ohci_hcd 31888 0
usbcore 148848 6 snd_usb_audio,snd_usb_lib,usbhid,ehci_hcd,ohci_hcd
thermal 23708 0
processor 42156 2 powernow_k8,thermal
fan 12548 0
fbcon 47648 0
tileblit 10880 1 fbcon
font 16512 1 fbcon
bitblit 13824 1 fbcon
softcursor 9984 1 bitblit
fuse 60828 7
```

5. La gráfica

```
lspci
```

```
05:00.0 VGA compatible controller: nVidia Corporation GeForce 8600GT (rev a1)
```

```
glxgears
```

20957 frames in 5.0 seconds = 4191.263 FPS

```
sudo nano /etc/X11/xorg.conf
```

```
Section "Monitor"
Identifier "Configured Monitor"
EndSection
```

```
Section "Screen"
Identifier "Default Screen"
Monitor "Configured Monitor"
Device "Configured Video Device"
DefaultDepth 24
EndSection
```

```
Section "Device"
Identifier "Configured Video Device"
Driver "nvidia"
EndSection
```

Como configurarla:

- `sudo nvidia-xconfig`
- `sudo dpkg-reconfigure -phigh xserver-xorg`

Drivers nvidia serie 6:

http://www.nvidia.es/object/linux_display_ia32_177.82_es.html

Descargar el archivo: `NVIDIA-Linux-x86-177.82-pkg1.run`