

Descrição do hardware computacional - OPRP

Aluno: **Gustavo José Neves da Silva**

- Modelo: Asus X552EA-DH41
- Processador: AMD A4-5000 APU
 - tamanho cache: 2048 KB
 - flags:

fpu	vme	de	pse	tsc	msr	pae
mce	cx8	apic	sep	mtrr	pge	mca
cmov	pat	pse36	clflush	mmx	fxsr	sse
sse2	ht	syscall	nx	mmxext	fxsr_opt	pdpe1gb
rdtscp	lm	constant_tsc	rep_good	nopl	nonstop_tsc	cpuid
extd_apicid	aperfmperf	pni	pclmulqdq	monitor	ssse3	cx16
sse4_1	sse4_2	movbe	popcnt	aes	xsave	avx
f16c	lahf_lm	cmp_legacy	svm	extapic	cr8_legacy	abm sse4a
misalignsse	3dnowprefetch	osvw	ibs	skinit	wdt	topoext
perfctr_nb	bpxt	perfctr_llc	hw_pstate	proc_feedback	ssbd	vmmcall
bmi1	xsaveopt	arat	npt_lbrv	svm_lock	nrip_save	tsc_scale
flushbyasid	decodeassists	pausefilter	pftthreshold	overflow_recov		

- tamanho TLB: 1024; número de páginas: 4K
- tamanho dos endereços: 40 bits físicos, 48 bits virtuais
- Clock CPU: 1.5 GHz
- Memória: 4GB - DDR3
- Hd: 500 GB
- Portas usb: 2 portas - usb 3.0
- Tela: 15.6 polegadas
- Resolução: 1366 x 768

- GPU:
 - AMD Radeon HD 8330
 - 128 shader units
 - 500 MHz
- Interfaces de rede:
 - Wireless
 - * modelo: AR9485
 - * Qualcomm Atheros
 - * tamanho de endereço: 64 bits
 - * clock: 33MHz
 - Ethernet
 - * modelo: RTL8111/8168/8411
 - * Realtek Semiconductor Co., Ltd
 - * taxa de transferência atual: 100Mbit/s
 - * taxa de transferência máxima: 1Gbit/s
 - * tamanho de endereço: 64 bits
 - * clock: 33MHz

Saida completa cpuinfo

```
processor : 0
vendor_id : AuthenticAMD
cpu family : 22
model : 0
model name : AMD A4-5000 APU with Radeon(TM) HD Graphics
stepping : 1
microcode : 0x700010f
cpu MHz : 1010.604
cache size : 2048 KB
physical id : 0
siblings : 4
core id : 0
cpu cores : 4
apicid : 0
initial apicid : 0
fpu : yes
fpu_exception : yes
cpuid level : 13
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt
pdpe1gb rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid
aperfperf pni pclmulqdq monitor ssse3 cx16 sse4_1 sse4_2 movbe popcnt aes
xsave avx f16c lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse
3dnowprefetch osvw ibs skinit wdt topoext perfctr_nb bpext perfctr_llc
hwpstate proc_feedback ssbd vmcall bmi1 xsaveopt arat npt lbrv svm_lock
nrip_save tsc_scale flushbyasid decodeassists pausefilter
pfthreshold overflow_recov
bugs : fxsave_leak sysret_ss_attrs null_seg spectre_v1 spectre_v2 spec_store_bypass
bogomips : 2995.13
TLB size : 1024 4K pages
clflush size : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management: ts ttp tm 100mhzsteps hwpstate proc_feedback

processor : 1
vendor_id : AuthenticAMD
cpu family : 22
model : 0
model name : AMD A4-5000 APU with Radeon(TM) HD Graphics
stepping : 1
microcode : 0x700010f
cpu MHz : 833.644
cache size : 2048 KB
physical id : 0
siblings : 4
core id : 1
cpu cores : 4
apicid : 1
initial apicid : 1
fpu : yes
fpu_exception : yes
cpuid level : 13
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb
rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid
aperfperf pni pclmulqdq monitor ssse3 cx16 sse4_1 sse4_2 movbe popcnt
aes xsave avx f16c lahf_lm cmp_legacy svm extapic cr8_legacy abm
sse4a misalignsse 3dnowprefetch osvw ibs skinit wdt topoext perfctr_nb
bpext perfctr_llc hwpstate proc_feedback ssbd vmcall bmi1 xsaveopt
arat npt lbrv svm_lock nrip_save tsc_scale flushbyasid decodeassists
pausefilter pfthreshold overflow_recov
bugs : fxsave_leak sysret_ss_attrs null_seg spectre_v1 spectre_v2 spec_store_bypass
bogomips : 2995.13
TLB size : 1024 4K pages
clflush size : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management: ts ttp tm 100mhzsteps hwpstate proc_feedback

processor : 2
```

```

vendor_id : AuthenticAMD
cpu family : 22
model : 0
model name : AMD A4-5000 APU with Radeon(TM) HD Graphics
stepping : 1
microcode : 0x700010f
cpu MHz : 974.685
cache size : 2048 KB
physical id : 0
siblings : 4
core id : 2
cpu cores : 4
apicid : 2
initial apicid : 2
fpu : yes
fpu_exception : yes
cpuid level : 13
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb
rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid aperfmperf
pni pclmulqdq monitor ssse3 cx16 sse4_1 sse4_2 movbe popcnt aes xsave avx f16c
lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
osvw ibs skinit wdt topoext perfctr_nb bpext perfctr_llc hwpstate proc_feedback
ssbd vmmcall bmi1 xsaveopt arat npt lbrv svm_lock nrip_save tsc_scale flushbyasid
decodeassists pausefilter pfthreshold overflow_recov
bugs : fxsave_leak sysret_ss_attrs null_seg spectre_v1 spectre_v2 spec_store_bypass
bogomips : 2995.13
TLB size : 1024 4K pages
clflush size : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management: ts ttp tm 100mhzsteps hwpstate proc_feedback

processor : 3
vendor_id : AuthenticAMD
cpu family : 22
model : 0
model name : AMD A4-5000 APU with Radeon(TM) HD Graphics
stepping : 1
microcode : 0x700010f
cpu MHz : 1006.459
cache size : 2048 KB
physical id : 0
siblings : 4
core id : 3
cpu cores : 4
apicid : 3
initial apicid : 3
fpu : yes
fpu_exception : yes
cpuid level : 13
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb
rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid aperfmperf
pni pclmulqdq monitor ssse3 cx16 sse4_1 sse4_2 movbe popcnt aes xsave avx
f16c lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse
3dnowprefetch osvw ibs skinit wdt topoext perfctr_nb bpext perfctr_llc
hwpstate proc_feedback ssbd vmmcall bmi1 xsaveopt arat npt lbrv
svm_lock nrip_save tsc_scale flushbyasid decodeassists pausefilter
pfthreshold overflow_recov
bugs : fxsave_leak sysret_ss_attrs null_seg spectre_v1 spectre_v2 spec_store_bypass
bogomips : 2995.13
TLB size : 1024 4K pages
clflush size : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management: ts ttp tm 100mhzsteps hwpstate proc_feedback

```

Saida completa dmidecode

```
BIOS Information
Vendor: American Megatrends Inc.
Version: X550EA.304
Release Date: 04/17/2019
Address: 0xF0000
Runtime Size: 64 kB
ROM Size: 4096 kB
Characteristics:
  PCI is supported
  BIOS is upgradeable
  BIOS shadowing is allowed
  Boot from CD is supported
  Selectable boot is supported
  EDD is supported
  5.25"/1.2 MB floppy services are supported (int 13h)
  3.5"/720 kB floppy services are supported (int 13h)
  3.5"/2.88 MB floppy services are supported (int 13h)
  Print screen service is supported (int 5h)
  8042 keyboard services are supported (int 9h)
  Serial services are supported (int 14h)
  Printer services are supported (int 17h)
  ACPI is supported
  USB legacy is supported
  Smart battery is supported
  BIOS boot specification is supported
  Targeted content distribution is supported
  UEFI is supported
BIOS Revision: 4.6

Handle 0x0001, DMI type 1, 27 bytes
System Information
  Manufacturer: ASUSTeK COMPUTER INC.
  Product Name: X550EA
  Version: 1.0
  Serial Number: E3N0B6006753119
  UUID: d006eca1-7aae-e311-b13a-e03f49f00ba6
  Wake-up Type: Power Switch
  SKU Number: ASUS-NotebookSKU
  Family: X

Handle 0x0002, DMI type 2, 15 bytes
Base Board Information
  Manufacturer: ASUSTeK COMPUTER INC.
  Product Name: X550EA
  Version: 1.0
  Serial Number: BSN12345678901234567
  Asset Tag: ATN12345678901234567
  Features:
    Board is a hosting board
    Board is replaceable
  Location In Chassis: MIDDLE
  Chassis Handle: 0x0003
  Type: Motherboard
  Contained Object Handles: 0

Handle 0x0003, DMI type 3, 22 bytes
Chassis Information
  Manufacturer: ASUSTeK COMPUTER INC.
  Type: Notebook
  Lock: Not Present
  Version: 1.0
  Serial Number: E3N0B6006753119
  Asset Tag: No Asset Tag
  Boot-up State: Safe
  Power Supply State: Safe
  Thermal State: Safe
  Security Status: None
  OEM Information: 0x00000000
  Height: Unspecified
  Number Of Power Cords: 1
  Contained Elements: 0
  SKU Number: To be filled by O.E.M.
```

Handle 0x0004, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J1A1
Internal Connector Type: None
External Reference Designator: PS2Mouse
External Connector Type: PS/2
Port Type: Mouse Port

Handle 0x0005, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J1A1
Internal Connector Type: None
External Reference Designator: Keyboard
External Connector Type: PS/2
Port Type: Keyboard Port

Handle 0x0006, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J2A1
Internal Connector Type: None
External Reference Designator: TV Out
External Connector Type: Mini Centronics Type-14
Port Type: Other

Handle 0x0007, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J2A2A
Internal Connector Type: None
External Reference Designator: COM A
External Connector Type: DB-9 male
Port Type: Serial Port 16550A Compatible

Handle 0x0008, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J2A2B
Internal Connector Type: None
External Reference Designator: Video
External Connector Type: DB-15 female
Port Type: Video Port

Handle 0x0009, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J3A1
Internal Connector Type: None
External Reference Designator: USB1
External Connector Type: Access Bus (USB)
Port Type: USB

Handle 0x000A, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J3A1
Internal Connector Type: None
External Reference Designator: USB2
External Connector Type: Access Bus (USB)
Port Type: USB

Handle 0x000B, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J3A1
Internal Connector Type: None
External Reference Designator: USB3
External Connector Type: Access Bus (USB)
Port Type: USB

Handle 0x000C, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J9A1 - TPM HDR
Internal Connector Type: Other
External Reference Designator: Not Specified
External Connector Type: None
Port Type: Other

Handle 0x000D, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J9C1 - PCIE DOCKING CONN
Internal Connector Type: Other

```

    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x000E, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J2B3 - CPU FAN
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x000F, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J6C2 - EXT HDMI
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0010, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J3C1 - GMCH FAN
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0011, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J1D1 - ITP
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0012, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J9E2 - MDC INTPSR
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0013, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J9E4 - MDC INTPSR
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0014, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J9E3 - LPC HOT DOCKING
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0015, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J9E1 - SCAN MATRIX
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

Handle 0x0016, DMI type 8, 9 bytes
Port Connector Information
    Internal Reference Designator: J9G1 - LPC SIDE BAND
    Internal Connector Type: Other
    External Reference Designator: Not Specified
    External Connector Type: None
    Port Type: Other

```

Handle 0x0017, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J8F1 - UNIFIED
Internal Connector Type: Other
External Reference Designator: Not Specified
External Connector Type: None
Port Type: Other

Handle 0x0018, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J6F1 - LVDS
Internal Connector Type: Other
External Reference Designator: Not Specified
External Connector Type: None
Port Type: Other

Handle 0x0019, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J2F1 - LAI FAN
Internal Connector Type: Other
External Reference Designator: Not Specified
External Connector Type: None
Port Type: Other

Handle 0x001A, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J2G1 - GFX VID
Internal Connector Type: Other
External Reference Designator: Not Specified
External Connector Type: None
Port Type: Other

Handle 0x001B, DMI type 8, 9 bytes
Port Connector Information
Internal Reference Designator: J1G6 - AC JACK
Internal Connector Type: Other
External Reference Designator: Not Specified
External Connector Type: None
Port Type: Other

Handle 0x001C, DMI type 9, 17 bytes
System Slot Information
Designation: J6B2
Type: x16 PCI Express
Current Usage: In Use
Length: Long
ID: 0
Characteristics:
3.3 V is provided
Opening is shared
PME signal is supported
Bus Address: 0000:00:01.0

Handle 0x001D, DMI type 9, 17 bytes
System Slot Information
Designation: J6B1
Type: x1 PCI Express
Current Usage: In Use
Length: Short
ID: 1
Characteristics:
3.3 V is provided
Opening is shared
PME signal is supported
Bus Address: 0000:00:1c.3

Handle 0x001E, DMI type 9, 17 bytes
System Slot Information
Designation: J6D1
Type: x1 PCI Express
Current Usage: In Use
Length: Short
ID: 2
Characteristics:
3.3 V is provided
Opening is shared


```

        PME signal is supported
        Bus Address: 0000:00:1c.4

Handle 0x001F, DMI type 10, 20 bytes
On Board Device 1 Information
    Type: Video
    Status: Enabled
    Description: VGA
On Board Device 2 Information
    Type: Ethernet
    Status: Enabled
    Description: GLAN
On Board Device 3 Information
    Type: Ethernet
    Status: Enabled
    Description: WLAN
On Board Device 4 Information
    Type: Sound
    Status: Enabled
    Description: Audio CODEC
On Board Device 5 Information
    Type: SATA Controller
    Status: Enabled
    Description: SATA Controller
On Board Device 6 Information
    Type: Other
    Status: Enabled
    Description: USB 2.0 Controller
On Board Device 7 Information
    Type: Other
    Status: Enabled
    Description: USB 3.0 Controller
On Board Device 8 Information
    Type: Other
    Status: Enabled
    Description: SMBus Controller

Handle 0x0020, DMI type 11, 5 bytes
OEM Strings
    String 1: jxfmGIGZ9QKHY
    String 2: fGLa+siHlwKMs
    String 3: n6FRwgaW4iQGv
    String 4: 90NB03RB-M01640
    String 5:
    String 6:
    String 7:
    String 8:
    String 9:
    String 10:

Handle 0x0021, DMI type 12, 5 bytes
System Configuration Options
    Option 1: DSN: Y E3CYS4TZ
    Option 2: DSN:FFFFFFFFFFFF
    Option 3: DSN:FFFFFFFFFFFF
    Option 4: SMI:00B2CA

Handle 0x0026, DMI type 32, 20 bytes
System Boot Information
    Status: No errors detected

Handle 0x002A, DMI type 16, 23 bytes
Physical Memory Array
    Location: System Board Or Motherboard
    Use: System Memory
    Error Correction Type: None
    Maximum Capacity: 4 GB
    Error Information Handle: Not Provided
    Number Of Devices: 2

Handle 0x002B, DMI type 19, 31 bytes
Memory Array Mapped Address
    Starting Address: 0x000000000000
    Ending Address: 0x000FFFFFFFFF
    Range Size: 4 GB
    Physical Array Handle: 0x002A

```

Partition Width: 255

Handle 0x002C, DMI type 17, 34 bytes
Memory Device
 Array Handle: 0x002A
 Error Information Handle: Not Provided
 Total Width: 64 bits
 Data Width: 64 bits
 Size: 2048 MB
 Form Factor: SODIMM
 Set: None
 Locator: DIMM 0
 Bank Locator: CHANNEL A
 Type: DDR3
 Type Detail: Synchronous Unbuffered (Unregistered)
 Speed: 1600 MT/s
 Manufacturer: <BAD INDEX>
 Serial Number: 00712272
 Asset Tag: A1_AssetTagNum0
 Part Number: TMT325S6EFR8A-PBHJ
 Rank: 1
 Configured Memory Speed: 667 MT/s

Handle 0x002D, DMI type 17, 34 bytes
Memory Device
 Array Handle: 0x002A
 Error Information Handle: Not Provided
 Total Width: 64 bits
 Data Width: 64 bits
 Size: 2048 MB
 Form Factor: SODIMM
 Set: None
 Locator: DIMM 1
 Bank Locator: CHANNEL A
 Type: DDR3
 Type Detail: Synchronous Unbuffered (Unregistered)
 Speed: 1333 MT/s
 Manufacturer: Hynix/Hyundai
 Serial Number: 00000000
 Asset Tag: A1_AssetTagNum1
 Part Number: HMT325S6EFR8A-H9
 Rank: 1
 Configured Memory Speed: 667 MT/s

Handle 0x002E, DMI type 20, 35 bytes
Memory Device Mapped Address
 Starting Address: 0x000000000000
 Ending Address: 0x0007FFFFFFF
 Range Size: 2 GB
 Physical Device Handle: 0x002C
 Memory Array Mapped Address Handle: 0x002B
 Partition Row Position: Unknown
 Interleave Position: Unknown
 Interleaved Data Depth: Unknown

Handle 0x002F, DMI type 20, 35 bytes
Memory Device Mapped Address
 Starting Address: 0x000800000000
 Ending Address: 0x000FFFFFFF
 Range Size: 2 GB
 Physical Device Handle: 0x002D
 Memory Array Mapped Address Handle: 0x002B
 Partition Row Position: Unknown
 Interleave Position: Unknown
 Interleaved Data Depth: Unknown

Handle 0x0030, DMI type 7, 19 bytes
Cache Information
 Socket Designation: L1 CACHE
 Configuration: Enabled, Not Socketed, Level 1
 Operational Mode: Write Back
 Location: Internal
 Installed Size: 256 kB
 Maximum Size: 256 kB
 Supported SRAM Types:
 Pipeline Burst

```

    Installed SRAM Type: Pipeline Burst
    Speed: 1 ns
    Error Correction Type: Multi-bit ECC
    System Type: Unified
    Associativity: 2-way Set-associative

Handle 0x0031, DMI type 7, 19 bytes
Cache Information
    Socket Designation: L2 CACHE
    Configuration: Enabled, Not Socketed, Level 2
    Operational Mode: Write Back
    Location: Internal
    Installed Size: 2048 kB
    Maximum Size: 2048 kB
    Supported SRAM Types:
        Pipeline Burst
    Installed SRAM Type: Pipeline Burst
    Speed: 1 ns
    Error Correction Type: Multi-bit ECC
    System Type: Unified
    Associativity: 16-way Set-associative

Handle 0x0032, DMI type 4, 42 bytes
Processor Information
    Socket Designation: P0
    Type: Central Processor
    Family: A-Series
    Manufacturer: AuthenticAMD
    ID: FF FB 8B 17 01 0F 70 00
    Signature: Family 11, Model 15, Stepping 15
    Flags:
        FPU (Floating-point unit on-chip)
        CX8 (CMPXCHG8 instruction supported)
        APIC (On-chip APIC hardware supported)
        SEP (Fast system call)
        DS (Debug store)
        ACPI (ACPI supported)
    Version: AMD A4-5000 APU with Radeon(TM) HD Graphics
    Voltage: 1.0 V
    External Clock: 100 MHz
    Max Speed: 1500 MHz
    Current Speed: 364 MHz
    Status: Populated, Enabled
    Upgrade: None
    L1 Cache Handle: 0x0030
    L2 Cache Handle: 0x0031
    L3 Cache Handle: Not Provided
    Serial Number: Not Specified
    Asset Tag: Not Specified
    Part Number: Not Specified
    Core Count: 4
    Core Enabled: 4
    Thread Count: 4
    Characteristics:
        64-bit capable

Handle 0x0033, DMI type 13, 22 bytes
BIOS Language Information
    Language Description Format: Long
    Installable Languages: 1
        en|US|iso8859-1
    Currently Installed Language: en|US|iso8859-1

```

Saida completa ethtool

```
Settings for enp2s0:
Supported ports: [ TP MII ]
Supported link modes:   10baseT/Half 10baseT/Full
                        100baseT/Half 100baseT/Full
                        1000baseT/Full
Supported pause frame use: Symmetric Receive-only
Supports auto-negotiation: Yes
Supported FEC modes: Not reported
Advertised link modes:  10baseT/Half 10baseT/Full
                        100baseT/Half 100baseT/Full
                        1000baseT/Full
Advertised pause frame use: Symmetric Receive-only
Advertised auto-negotiation: Yes
Advertised FEC modes: Not reported
Link partner advertised link modes:  10baseT/Half 10baseT/Full
                                    100baseT/Half 100baseT/Full
Link partner advertised pause frame use: No
Link partner advertised auto-negotiation: Yes
Link partner advertised FEC modes: Not reported
Speed: 100Mb/s
Duplex: Full
Port: MII
PHYAD: 0
Transceiver: internal
Auto-negotiation: on
Supports Wake-on: pumbg
Wake-on: d
Current message level: 0x00000033 (51)
                drv probe ifdown ifup
Link detected: yes
```

Saida completa lshw

```
*-network
  description: Wireless interface
  product: AR9485 Wireless Network Adapter
  vendor: Qualcomm Atheros
  physical id: 0
  bus info: pci@0000:01:00.0
  logical name: wlp1s0
  version: 01
  serial:
  width: 64 bits
  clock: 33MHz
  capabilities: pm msi pciexpress bus_master cap_list
               rom ethernet physical wireless
  configuration: broadcast=yes driver=ath9k
                 driverversion=5.2.5-arch1-1-ARCH firmware=N/A
                 latency=0 link=no multicast=yes wireless=IEEE 802.11
  resources: irq:38 memory:fea00000-fea7ffff memory:fea80000-fea8ffff

*-network
  description: Ethernet interface
  product: RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller
  vendor: Realtek Semiconductor Co., Ltd.
  physical id: 0
  bus info: pci@0000:02:00.0
  logical name: enp2s0
  version: 10
  serial:
  size: 100Mbit/s
  capacity: 1Gbit/s
  width: 64 bits
  clock: 33MHz
  capabilities: pm msi pciexpress msix vpd bus_master
               cap_list ethernet physical tp mii 10bt 10bt-fd
               100bt 100bt-fd 1000bt-fd autonegotiation
  configuration: autonegotiation=on broadcast=yes
                 driver=r8169 duplex=full firmware=rtl8168g-3_0.0.1
                 04/23/13 ip=192.168.5.42 latency=0
                 link=yes multicast=yes port=MII speed=100Mbit/s
  resources: irq:35 ioport:e000(size=256) memory:fe904000-fe904fff
             memory:fe900000-fe903fff
```