

Lshw

Lshw er et lille fint kommandolinjeværktøj, der genererer detaljerede rapporter om forskellige hardwarekomponenter på systemet. Det gør det ved at læse forskellige filer i / proc-biblioteket.

Lshw er i stand til at rapportere hukommelseskonfiguration, firmware version, bundkort konfiguration, CPU version og hastighed, cache konfiguration, bus hastighed etc.

Sådan bruges Lshw

Lshw-kommandoen skal køre med root privilegier for at kunne registrere og rapportere den maksimale mængde information. Så kør det som root, eller brug sudo.

Lshw sorterer hardwarekomponenter i grupper kaldet „klasse“. Processor, hukommelse, display, netværk, opbevaring er alle forskellige klasser.

Vis fuld information

Hvis du kører Lshw uden tilføjelser, vil det generere en fuldstændig informationsrapport om alt registrerede hardware. Her kun vist et udsnit

\$ sudo lshw

```
description: Desktop Computer
product: All Series (All)
vendor: ASUS
version: System Version
serial: System Serial Number
width: 4294967295 bits
capabilities: smbios-2.7 dmi-2.7 smp vsyscall32
configuration: administrator_password=disabled boot=normal
chassis=desktop family=ASUS MB frontpanel_password=disabled
keyboard_password=disabled power-on_password=disabled sku=All
uuid=A23A37B0-04D4-7278-7A22-E03F4982C8E2
```

*-core

```
description: Motherboard
product: H81M-PLUS
vendor: ASUSTeK COMPUTER INC.
physical id: 0
version: Rev X.0x
serial: 131220184400359
slot: To be filled by O.E.M.
```

*-firmware

```
description: BIOS
vendor: American Megatrends Inc.
physical id: 0
version: 0701
date: 12/03/2013
size: 64KiB
capacity: 8128KiB
capabilities: pci apm upgrade shadowing cdboot bootselect
socketedrom edd int13floppy1200 int13floppy720 int13floppy2880
int5pintscreen int9keyboard int14serial int17printer acpi usb
biosbootspecification uefi
*-memory:0 UNCLAIMED
```

Vis oplysninger i kort form

Med kommandoen **sudo lshw -short** vil lshw-kommandoen generere en kort informationsrapport om hardwareenhederne, som hurtigt ville give en ide om systemets hardwareprofil.

```

$ sudo lshw -short

```

H/W path	Device	Class	Description
/0		system	All Series (All)
/0/0		bus	H81M-PLUS
/0/1		memory	64KiB BIOS
/0/1/0		memory	8GiB DIMM DDR3 Synchronous 1600 MHz (0,6 ns)
/0/3c		memory	System Memory
/0/3c/0		memory	8GiB DIMM DDR3 Synchronous 1600 MHz (0,6 ns)
/0/41		memory	256KiB L1 cache
/0/42		memory	1MiB L2 cache
/0/43		memory	6MiB L3 cache
/0/4c		processor	Intel(R) Core(TM) i5-4570 CPU @ 3.20GHz
/0/2		memory	
/0/3		memory	
/0/100		bridge	4th Gen Core Processor DRAM Controller
/0/100/1		bridge	Xeon E3-1200 v3/4th Gen Core Processor PCI Express
/0/100/2		display	Xeon E3-1200 v3/4th Gen Core Processor Integrated
/0/100/3		multimedia	Xeon E3-1200 v3/4th Gen Core Processor HD Audio C
/0/100/14		bus	8 Series/C220 Series Chipset Family USB xHCI
/0/100/14/0	usb3	bus	xHCI Host Controller
/0/100/14/0/3		input	Wired Keyboard 600
/0/100/14/1	usb4	bus	xHCI Host Controller
/0/100/16		communication	8 Series/C220 Series Chipset Family MEI Controlle
/0/100/1a		bus	8 Series/C220 Series Chipset Family USB EHCI #2
/0/100/1a/1	usb1	bus	EHCI Host Controller
/0/100/1a/1/1		bus	USB hub
/0/100/1b		multimedia	8 Series/C220 Series Chipset High Definition Audi
/0/100/1c		bridge	8 Series/C220 Series Chipset Family PCI Express R
/0/100/1c.2		bridge	8 Series/C220 Series Chipset Family PCI Express R
/0/100/1c.2/0	enp3s0	network	RTL8111/8168/8411 PCI Express Gigabit Ethernet Co
/0/100/1c.4		bridge	8 Series/C220 Series Chipset Family PCI Express R
/0/100/1c.4/0		bus	ASM1042A USB 3.0 Host Controller
/0/100/1c.4/0/0	usb5	bus	xHCI Host Controller
/0/100/1c.4/0/0/1		input	HID compliant-mouse
/0/100/1c.4/0/1	usb6	bus	xHCI Host Controller
/0/100/1d		bus	8 Series/C220 Series Chipset Family USB EHCI #1
/0/100/1d/1	usb2	bus	EHCI Host Controller
/0/100/1d/1/1		bus	USB hub
/0/100/1f		bridge	C220 Series Chipset Family H81 Express LPC Contro
/0/100/1f.2		storage	8 Series/C220 Series Chipset Family 6-port SATA C
/0/100/1f.3		bus	8 Series/C220 Series Chipset Family SMBus Control
/0/4	scsi0	storage	
/0/4/0.0.0	/dev/cdrom	disk	DRW-24F15T a
/0/5	scsi1	storage	
/0/5/0.0.0	/dev/sda	disk	500GB Samsung SSD 840
/0/5/0.0.0/1	/dev/sda1	volume	255MiB EXT4 volume
/0/5/0.0.0/2	/dev/sda2	volume	457GiB EXT4 volume
/0/5/0.0.0/3	/dev/sda3	volume	7865MiB Extended partition
/0/5/0.0.0/3/5	/dev/sda5	volume	7864MiB Linux swap volume
/1		power	To Be Filled By O.E.M.

Generer en rapport i html

Lshw er i stand til at producere en rapport i html.

```
sudo lshw -html > hardware.html
```

hardware.html ligger du i dit hjemmebibliotek, og kan nu genenses med din fortrukne browser. Her et lille udsnit.

```

id:          memory:1
description: System Memory
physical id: 3c
slot:        System board or motherboard

```

```

id:          bank
description: DIMM DDR3 Synchronous 1600 MHz (0.6 ns)
product:     KHX1600C10D3/8GX
vendor:      Kingston
physical id: 0
serial:      11352617
slot:        ChannelB-DIMM0
size:        8GiB
width:       64 bits
clock:       1600MHz (0.6ns)

```

```

id:          cache:0
description: L1 cache
physical id: 41
slot:        CPU Internal L1
size:        256KiB
capacity:    256KiB
capabilities: internal write-back
configuration: level = 1

```

Flere komandoer

Herunder vil jeg opliste flere komandoer som kan bruges med Lshw, afprøv dem selv, så du kan se hvad de viser om din hardware.

\$ sudo lshw -short -class memory = Vis kun hukommelsesoplysninger

\$ sudo lshw -class processor = Vis processoroplysninger

\$ sudo lshw -short -class disk = Vis diskdrevene med disk klassen.

\$ sudo lshw -short -class disk -class storage -class volume = Vis information om partitionerne og controllerne

\$ sudo lshw -class network = Vis information om netværkskortet - grænsefladen

\$ sudo lshw -businfo = Vis adresseoplysninger med businfo

From:
<http://bluemarlin.dk/> - **Linux For Alle**

Permanent link:
<http://bluemarlin.dk/doku.php?id=lshw&rev=1522310256>

Last update: **2019/06/28 08:08**

