

LSHW(1)

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NAME

Ishw - list hardware

SYNOPSIS

Ishw [-version]

Ishw [-help]

Ishw [-X]

Ishw [[-html] [-short] [-xml] [-json] [-businfo]] [-dump filename] [-class class...] [-disable test...] [-enable test...] [-sanitize] [-numeric] [-quiet] [-notime]

DESCRIPTION

Ishw is a small tool to extract detailed information on the hardware configuration of the machine. It can report exact memory configuration, firmware version, mainboard configuration, CPU version and speed, cache configuration, bus speed, etc. on DMI-capable x86 or IA-64 systems and on some PowerPC machines (PowerMac G4 is known to work).

It currently supports DMI (x86 and IA-64 only), OpenFirmware device

Linux UBUNTU Manual Pages

tested on x86), SCSI and USB.

-version

Displays the version of lshw and exits.

-help Displays the available command line options and quits.

-X Launch the X11 GUI (if available).

-html Outputs the device tree as an HTML page.

-xml Outputs the device tree as an XML tree.

-json Outputs the device tree as a JSON object (JavaScript Object Notation).

-short Outputs the device tree showing hardware paths, very much like the output of HP-UX's ioscans.

-businfo

Outputs the device list showing bus information, detailing SCSI, USB, IDE and PCI addresses.

-dump filename

(SQLite database).

-class class

Only show the given class of hardware. class can be found using
lshw -short or lshw -businfo.

-C class

Alias for -class class.

-enable test

-disable test

Enables or disables a test. test can be dmi (for DMI/SMBIOS extensions), device-tree (for OpenFirmware device tree), spd (for memory Serial Presence Detect), memory (for memory-size guessing heuristics), cpuinfo (for kernel-reported CPU detection), cpuid (for CPU detection), pci (for PCI/AGP access), isapnp (for ISA PnP extensions), pcmcia (for PCMCIA/PCCARD), ide (for IDE/ATA API), usb (for USB devices),scsi (for SCSI) or network (for network interfaces detection).

-quiet Don't display status.

-sanitize

resses, serial numbers, etc.).

-numeric

Also display numeric IDs (for PCI and USB devices).

-notime

Exclude volatile attributes (timestamps) from output.

BUGS

Ishw currently does not detect Firewire(IEEE1394) devices.

Not all architectures supported by GNU/Linux are fully supported (e.g. CPU detection).

"Virtual" SCSI interfaces used for SCSI emulation over IDE are not reported correctly yet.

NOTES

Ishw must be run as super user or it will only report partial information.

FILES

`/usr/local/share/pci.ids`

`/etc/pci.ids`

`/usr/share/hwdata/pci.ids`

A list of all known PCI ID's (vendors, devices, classes and sub? classes). If compiled with zlib support, lshw will look for pci.ids.gz first, then for pci.ids.

`/proc/bus/pci/*`

Used to access the configuration of installed PCI buses and de? vices.

`/proc/ide/*`

Used to access the configuration of installed IDE buses and de? vices.

`/proc/scsi/*, /dev/sg*`

Used to access the configuration of installed SCSI devices.

`/dev/cpu*/cpuid`

Used on x86 platforms to access CPU-specific configuration.

`/proc/device-tree/*`

Used on PowerPC platforms to access OpenFirmware configuration.

/proc/bus/usb/*

Used to access the configuration of installed USB buses and devices.

/sys/* Used on 2.6 kernels to access hardware/driver configuration information.

EXAMPLES

lshw -short

Lists hardware in a compact format.

lshw -class disk -class storage

Lists all disks and storage controllers in the system.

lshw -html -class network

Lists all network interfaces in HTML.

lshw -disable dmi

Don't use DMI to detect hardware.

SEE ALSO

/proc/*, **linuxinfo(1)**, **lspci(8)**, **lsusb(8)**

2.

AUTHOR

Ishw is maintained by Lyonel Vincent <lyonel@ezix.org>.

OTHER INFO

The webpage for Ishw is at

<URL:<http://lshw.ezix.org/>>

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