Rocky Enterprise Linux 9.2 Manual Pages on command 'lshw.1'

$ man lshw.1

LSHW(1)   LSHW(1)

NAME

   lshw - list hardware

SYNOPSIS

   lshw [-version]

   lshw [-help]

   lshw [-X]

   lshw [[-html] [-short] [-xml] [-json] [-businfo]] [-dump filename] [

   -class class...] [-disable test...] [-enable test...] [-sanitize] [-numeric]

   [-quiet] [-notime]

DESCRIPTION

   lshw is a small tool to extract detailed information on the hardware configuration of the

   machine. It can report exact memory configuration, firmware version, mainboard configura?

   tion, 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 tree (PowerPC only),

   PCI/AGP, CPUID (x86), IDE/ATA/ATAPI, PCMCIA (only 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 ioscan.

-businfo

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

-dump filename

    Display output and dump collected information into a file (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), mem?
    ory (for memory-size guessing heuristics), cpuinfo (for kernel-reported CPU detec?
    tion), cpuid (for CPU detection), pci (for PCI/AGP access), isapnp (for ISA PnP ex?
    tensions), pcmcia (for PCMCIA/PCCARD), ide (for IDE/ATAPI), usb (for USB de?
    vices),scsi (for SCSI) or network (for network interfaces detection).

-quiet Don't display status.

-sanitize

    Remove potentially sensitive information from output (IP addresses, serial numbers,
    etc.).

-numeric

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

-notime

    Exclude volatile attributes (timestamps) from output.

BUGS

    lshw 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

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

FILES

/usr/local/share/pci.ids

/usr/share/pci.ids

/etc/pci.ids

/usr/share/hwdata/pci.ids

A list of all known PCI ID's (vendors, devices, classes and subclasses).   If com?

piled 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 devices.

/proc/ide/*

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

/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)

COPYING

   lshw is distributed under the GNU GENERAL PUBLIC LICENSE (GPL) version 2.

AUTHOR

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

OTHER INFO

   The webpage for lshw is at

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

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