Red Hat Enterprise Linux Release 9.2 Manual Pages on 'usbhid-dump.8' command

$ man usbhid-dump.8

usbhid-dump(8)   Linux USB Utilities   usbhid-dump(8)

NAME

    usbhid-dump - dump USB HID device report descriptors and streams

SYNOPSIS

    usbhid-dump [OPTION]...

DESCRIPTION

    usbhid-dump uses libusb to dump report descriptors and streams from HID

    (human interface device) interfaces of USB devices. By default, it

    dumps HID interfaces of all connected USB devices, but could be limited

    to a subset of them, or to a single interface, using options.

    NOTE: usbhid-dump detaches kernel drivers from the interfaces it dumps

    and uses them exclusively, so no other program receives the input in

    the meantime. The report descriptor dumping is instantaneous, but the

    stream dumping continues until terminated with SIGINT (^C from the ter?

    minal) or a timeout expires.

    If you accidentally start dumping a stream from the USB keyboard you

    use to control the terminal, the system will stop receiving the input

    and you won't be able to terminate usbhid-dump. Just stop your input

    and wait until the timeout expires. The stream dumping will stop, the

    keyboard will be reattached to the kernel driver and you will regain

    control.

    The default stream dumping timeout is 60 seconds and could be changed

    with the -t option.

OPTIONS

-h, --help

Output a help message and exit.

-v, --version

Output version information and exit.

-s, -a, --address=bus[:dev]

Limit interfaces by bus number and device address. Both 1-255,

decimal. Zeroes match any bus or device.

-d, -m, --model=vid[:pid]

Limit interfaces by device vendor and product IDs. Both 1-FFFF,

hexadecimal. Zeroes match any vendor or product.

-i, --interface=NUMBER

Limit interfaces by number (0-254), decimal. 255 matches any in?

terface.

-e, --entity=STRING

The entity to dump: either "descriptor", "stream" or "all". The

value can be abbreviated down to one letter. The default is "de?

scriptor".

-t, --stream-timeout=NUMBER

Stream interrupt transfer timeout, ms. Zero means infinity. The

default is 60000 (60 seconds).

-p, --stream-paused

Start with the stream dump output paused.

-f, --stream-feedback

Enable stream dumping feedback: print a dot to stderr for every

transfer dumped.

SIGNALS

USR1/USR2

Pause/resume stream dump output.

OUTPUT FORMAT

usbhid-dump outputs dumps in chunks. Each chunk is separated by an

empty line and starts with the following header line:

BUS:DEVICE:INTERFACE:ENTITY TIMESTAMP

Here, BUS, DEVICE and INTERFACE are bus, device and interface numbers respectively. ENTITY is either "DESCRIPTOR" or "STREAM". TIMESTAMP is timestamp in seconds since epoch.

After the header the actual dump data follows as hex bytes. A descrip‐ tor chunk includes the whole report descriptor. Every stream chunk in‐ cludes a whole report, usually, but if a report is bigger than end‐ point's wMaxPacketSize, it will span several chunks.

EXAMPLES

Dump report descriptor for a device with address 3 on bus number 2:

    usbhid-dump -a 2:3

Dump report stream for a device with vendor ID 0x5543 and product ID 0x0005:

    usbhid-dump -m 5543:0005 -es

Dump report descriptor from interface 1 of a device with vendor ID 0x5543:

    usbhid-dump -m 5543 -i 1 -ed

Dump report streams from all HID interfaces of all USB devices (cau‐ tion: you will lose control over the terminal if you use USB keyboard):

    usbhid-dump -es

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