

lsusb

El comando `lsusb` muestra un resumen de todos los dispositivos conectados a la máquina a través del bus USB.

Funcionamiento

`lsusb` utiliza la información que se almacena en los directorios `/proc` y `/sys` para construir un listado de buses USB y dispositivos conectados a ellos, de manera que podamos conocer el HW que tenemos disponible.

Opciones

Algunas de las opciones interesantes para utilizar el comando `lsusb` son las siguientes: `-d`: muestra información sobre el dispositivo del fabricante indicado `-s`: identificar el dispositivo conectado a un [Bus:Device] `-t`: mostrar un árbol de conexiones USB `-v`: muestra información adicional sobre el dispositivo indicado

Ejemplos

Ejemplo 1

Muestra todos los dispositivos conectados al sistema:

```
Bus 002 Device 002: ID 8087:8000 Intel Corp.
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 002: ID 8087:8008 Intel Corp.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 003 Device 003: ID 04f2:b40e Chicony Electronics Co., Ltd HP Truevision
HD camera
Bus 003 Device 002: ID 03f0:7e04 HP, Inc DeskJet F4100 Printer series
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

Ejemplo 2

Muestra información detallada del bus "003:002"

```
Bus 003 Device 002: ID 03f0:7e04 HP, Inc DeskJet F4100 Printer series
Couldn't open device, some information will be missing
```

Device Descriptor:

```

bLength          18
bDescriptorType   1
bcdUSB           2.00
bDeviceClass      0
bDeviceSubClass   0
bDeviceProtocol   0
bMaxPacketSize0   8
idVendor          0x03f0 HP, Inc
idProduct         0x7e04 DeskJet F4100 Printer series
bcdDevice         1.00
iManufacturer     1
iProduct          2
iSerial           3
bNumConfigurations 1

```

Configuration Descriptor:

```

bLength          9
bDescriptorType   2
wTotalLength      0x0081
bNumInterfaces    3
bConfigurationValue 1
iConfiguration    0
bmAttributes      0xc0
    Self Powered

```

```

MaxPower          2mA

```

Interface Descriptor:

```

bLength          9
bDescriptorType   4
bInterfaceNumber  0
bAlternateSetting 0
bNumEndpoints    3
bInterfaceClass   255 Vendor Specific Class
bInterfaceSubClass 204
bInterfaceProtocol 0
iInterface        0

```

Endpoint Descriptor:

```

bLength          7
bDescriptorType   5
bEndpointAddress 0x01 EP 1 OUT
bmAttributes      2
    Transfer Type   Bulk
    Synch Type      None
    Usage Type      Data
wMaxPacketSize    0x0040 1x 64 bytes
bInterval         0

```

Endpoint Descriptor:

```

bLength          7
bDescriptorType   5
bEndpointAddress 0x81 EP 1 IN
bmAttributes      2
    Transfer Type   Bulk

```

```

    Synch Type          None
    Usage Type          Data
    wMaxPacketSize      0x0020 1x 32 bytes
    bInterval           0
Endpoint Descriptor:
    bLength              7
    bDescriptorType      5
    bEndpointAddress     0x82 EP 2 IN
    bmAttributes         3
        Transfer Type    Interrupt
        Synch Type       None
        Usage Type       Data
    wMaxPacketSize      0x0008 1x 8 bytes
    bInterval           10
Interface Descriptor:
    bLength              9
    bDescriptorType      4
    bInterfaceNumber     1
    bAlternateSetting    0
    bNumEndpoints        3
    bInterfaceClass      7 Printer
    bInterfaceSubClass   1 Printer
    bInterfaceProtocol   2 Bidirectional
    iInterface           0
Endpoint Descriptor:
    bLength              7
    bDescriptorType      5
    bEndpointAddress     0x03 EP 3 OUT
    bmAttributes         2
        Transfer Type    Bulk
        Synch Type       None
        Usage Type       Data
    wMaxPacketSize      0x0020 1x 32 bytes
    bInterval           0
Endpoint Descriptor:
    bLength              7
    bDescriptorType      5
    bEndpointAddress     0x83 EP 3 IN
    bmAttributes         2
        Transfer Type    Bulk
        Synch Type       None
        Usage Type       Data
    wMaxPacketSize      0x0020 1x 32 bytes
    bInterval           0
Endpoint Descriptor:
    bLength              7
    bDescriptorType      5
    bEndpointAddress     0x84 EP 4 IN
    bmAttributes         3
        Transfer Type    Interrupt
        Synch Type       None

```

Usage Type		Data
wMaxPacketSize	0x0008	1x 8 bytes
bInterval	10	
Interface Descriptor:		
bLength	9	
bDescriptorType	4	
bInterfaceNumber	2	
bAlternateSetting	0	
bNumEndpoints	3	
bInterfaceClass	255	Vendor Specific Class
bInterfaceSubClass	255	Vendor Specific Subclass
bInterfaceProtocol	255	Vendor Specific Protocol
iInterface	0	
Endpoint Descriptor:		
bLength	7	
bDescriptorType	5	
bEndpointAddress	0x07	EP 7 OUT
bmAttributes	2	
Transfer Type		Bulk
Synch Type		None
Usage Type		Data
wMaxPacketSize	0x0020	1x 32 bytes
bInterval	0	
Endpoint Descriptor:		
bLength	7	
bDescriptorType	5	
bEndpointAddress	0x87	EP 7 IN
bmAttributes	2	
Transfer Type		Bulk
Synch Type		None
Usage Type		Data
wMaxPacketSize	0x0020	1x 32 bytes
bInterval	0	
Endpoint Descriptor:		
bLength	7	
bDescriptorType	5	
bEndpointAddress	0x88	EP 8 IN
bmAttributes	3	
Transfer Type		Interrupt
Synch Type		None
Usage Type		Data
wMaxPacketSize	0x0008	1x 8 bytes
bInterval	10	
Interface Descriptor:		
bLength	9	
bDescriptorType	4	
bInterfaceNumber	2	
bAlternateSetting	1	
bNumEndpoints	3	
bInterfaceClass	255	Vendor Specific Class
bInterfaceSubClass	212	

```
bInterfaceProtocol      0
iInterface               0
Endpoint Descriptor:
  bLength                7
  bDescriptorType        5
  bEndpointAddress       0x07  EP 7 OUT
  bmAttributes           2
    Transfer Type        Bulk
    Synch Type           None
    Usage Type           Data
  wMaxPacketSize         0x0020  1x 32 bytes
  bInterval              0
Endpoint Descriptor:
  bLength                7
  bDescriptorType        5
  bEndpointAddress       0x87  EP 7 IN
  bmAttributes           2
    Transfer Type        Bulk
    Synch Type           None
    Usage Type           Data
  wMaxPacketSize         0x0020  1x 32 bytes
  bInterval              0
Endpoint Descriptor:
  bLength                7
  bDescriptorType        5
  bEndpointAddress       0x88  EP 8 IN
  bmAttributes           3
    Transfer Type        Interrupt
    Synch Type           None
    Usage Type           Data
  wMaxPacketSize         0x0008  1x 8 bytes
  bInterval              10
```

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