

NAME

partx – tell the kernel about the presence and numbering of on-disk partitions

SYNOPSIS

```
partx [-a|-d|-P|-r|-s|-u] [-t type] [-n M:N] [-] disk
partx [-a|-d|-P|-r|-s|-u] [-t type] partition [disk]
```

DESCRIPTION

Given a device or disk-image, **partx** tries to parse the partition table and list its contents. It can also tell the kernel to add or remove partitions from its bookkeeping.

The *disk* argument is optional when a *partition* argument is provided. To force scanning a partition as if it were a whole disk (for example to list nested subpartitions), use the argument "-" (hyphen-minus). For example:

```
partx --show - /dev/sda3
```

This will see sda3 as a whole-disk rather than as a partition.

partx is not an fdisk program – adding and removing partitions does not change the disk, it just tells the kernel about the presence and numbering of on-disk partitions.

OPTIONS**-a, --add**

Add the specified partitions, or read the disk and add all partitions.

-b, --bytes

Print the SIZE column in bytes rather than in human-readable format.

-d, --delete

Delete the specified partitions or all partitions.

-g, --noheadings

Do not print a header line with **--show** or **--raw**.

-l, --list

List the partitions. Note that all numbers are in 512-byte sectors. This output format is DEPRECATED in favour of **--show**. Do not use it in newly written scripts.

-n, --nr *M:N*

Specify the range of partitions. For backward compatibility also the format *M-N* is supported. The range may contain negative numbers, for example **--nr -1:-1** means the last partition, and **--nr -2:-1** means the last two partitions. Supported range specifications are:

<i>M</i>	Specifies just one partition (e.g. --nr 3).
<i>M</i> :	Specifies the lower limit only (e.g. --nr 2:).
: <i>N</i>	Specifies the upper limit only (e.g. --nr :4).
<i>M</i> : <i>N</i>	Specifies the lower and upper limits (e.g. --nr 2:4).

-o, --output *list*

Define the output columns to use for **--show**, **--pairs** and **--raw** output. If no output arrangement is specified, then a default set is used. Use **--help** to get *list* of all supported columns. This option cannot be combined with the **--add**, **--delete**, **--update** or **--list** options.

--output-all

Output all available columns.

-P, --pairs

List the partitions using the KEY="value" format.

- r, --raw**
List the partitions using the raw output format.
- s, --show**
List the partitions. The output columns can be selected and rearranged with the **--output** option. All numbers (except SIZE) are in 512-byte sectors.
- t, --type *type***
Specify the partition table type.
- list-types**
List supported partition types and exit.
- u, --update**
Update the specified partitions.
- S, --sector-size *size***
Overwrite default sector size.
- v, --verbose**
Verbose mode.
- V, --version**
Display version information and exit.
- h, --help**
Display help text and exit.

EXAMPLES

```
partx --show /dev/sdb3
partx --show --nr 3 /dev/sdb
partx --show /dev/sdb3 /dev/sdb
    All three commands list partition 3 of /dev/sdb.

partx --show - /dev/sdb3
    Lists all subpartitions on /dev/sdb3 (the device is used as whole-disk).

partx -o START -g --nr 5 /dev/sdb
    Prints the start sector of partition 5 on /dev/sdb without header.

partx -o SECTORS,SIZE /dev/sda5 /dev/sda
    Lists the length in sectors and human-readable size of partition 5 on /dev/sda.

partx --add --nr 3:5 /dev/sdd
    Adds all available partitions from 3 to 5 (inclusive) on /dev/sdd.

partx -d --nr :-1 /dev/sdd
    Removes the last partition on /dev/sdd.
```

SEE ALSO

addpart(8), **delpart(8)**, **fdisk(8)**, **parted(8)**, **partprobe(8)**

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ENVIRONMENT

LIBBLKID_DEBUG=all
enables libblkid debug output.

AVAILABILITY

The partx command is part of the util-linux package and is available from Linux Kernel Archive (<<https://www.kernel.org/pub/linux/utils/util-linux/>>).