

**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 sizes in bytes rather than in a human-readable format.

By default, the unit, sizes are expressed in, is byte, and unit prefixes are in power of  $2^{10}$  (1024). Abbreviations of symbols are exhibited truncated in order to reach a better readability, by exhibiting alone the first letter of them; examples: "1 KiB" and "1 MiB" are respectively exhibited as "1 K" and "1 M", then omitting on purpose the mention "iB", which is part of these abbreviations.

**-d, --delete**

Delete the specified partitions or all partitions. It is not error to remove non-existing partitions, so this option is possible to use together with large **--nr** ranges without care about the current partitions set on the device.

**-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:

*M*

Specifies just one partition (e.g. **--nr 3**).

*M:*

Specifies the lower limit only (e.g. **--nr 2:**).

**:N**

Specifies the upper limit only (e.g. **--nr :4**).

**M:N**

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.

**-h, --help**

Display help text and exit.

**-V, --version**

Print version and exit.

## ENVIRONMENT

LIBBLKID\_DEBUG=all

enables libblkid debug output.

## EXAMPLE

```
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*.

## AUTHORS

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## SEE ALSO

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

## REPORTING BUGS

For bug reports, use the issue tracker at <https://github.com/util-linux/util-linux/issues>.

## AVAILABILITY

The **partx** command is part of the util-linux package which can be downloaded from [Linux Kernel Archive](#) <<https://www.kernel.org/pub/linux/utils/util-linux/>>.