

**NAME**

**trim** - erase device blocks that have no needed contents

**SYNOPSIS**

**trim** [-Nfqv] [-[lo] offset[K|k|M|m|G|g|T|t]] [-r *rfile*] *device* ...

**DESCRIPTION**

The **trim** utility erases specified region of the device. It is mostly relevant for storage that implement trim (like flash based, or thinly provisioned storage). **All erased data is lost.**

The following options are available:

**-N** Do not actually erase anything but show what it would do (dry run). Implies **-v**. This is the default. Overrides **-f**.

**-f** Perform the operation. Overrides **-N**.

**-l** *offset*[K|k|M|m|G|g|T|t]

**-o** *offset*[K|k|M|m|G|g|T|t]

Specify the length **-l** of the region to trim or its offset **-o** from the beginning of the device. **The whole device is erased by default** unless one or both of these options are presented.

The argument may be suffixed with one of **K**, **M**, **G** or **T** (either upper or lower case) to indicate a multiple of Kilobytes, Megabytes, Gigabytes or Terabytes respectively.

**-q** Do not output anything except of possible error messages (quiet mode). Overrides **-v**.

**-r** *rfile*

Uses the length of given *rfile* as length of the region to erase. **The whole device is erased by default.**

**-v** Show offset and length of actual region being erased, in bytes.

Later options override previous ones.

Note that actual success of the operation depends of underlying device driver such as ada(4), da(4) and others. Refer to corresponding manual pages for detail on possible caveats in low level support for ATA TRIM or SCSI UNMAP commands.

## EXIT STATUS

The **trim** utility exits 0 on success, and >0 if an error occurs. If the final erase operation fails for an argument, the **trim** utility returns exit code 1. It can also return one of the exit codes defined in `sysexits(3)`, as follows:

EX_USAGE	The specified offset or length of the region is incorrect.
EX_OSERR	There is not enough memory to proceed.
EX_NOINPUT	The specified <i>rfile</i> cannot be opened (perhaps, it does not exist).
EX_IOERR	The specified <i>rfile</i> cannot be examined for its size due to some system input/output error.
EX_DATAERR	The specified <i>rfile</i> is not regular file, directory nor special device, so its size cannot be examined.
EX_UNAVAILABLE	The specified <i>rfile</i> is special device file not supporting <code>DIOCGMEDIASIZE</code> <code>ioctl(2)</code> (probably not a disk), so its size cannot be examined.

## SEE ALSO

`ioctl(2)`, `sysexits(3)`, `ada(4)`, `da(4)`, `nda(4)`

## HISTORY

The **trim** utility first appeared in FreeBSD 12.1.

## AUTHORS

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