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***Rocky Enterprise Linux 9.2 Manual Pages on command 'numfmt.1'***

**\$ man numfmt.1**

NUMFMT(1) User Commands NUMFMT(1)

NAME

numfmt - Convert numbers from/to human-readable strings

SYNOPSIS

numfmt [OPTION]... [NUMBER]...

DESCRIPTION

Reformat NUMBER(s), or the numbers from standard input if none are specified.

Mandatory arguments to long options are mandatory for short options too.

--debug

print warnings about invalid input

-d, --delimiter=X

use X instead of whitespace for field delimiter

--field=FIELDS

replace the numbers in these input fields (default=1) see FIELDS below

--format=FORMAT

use printf style floating-point FORMAT; see FORMAT below for details

--from=UNIT

auto-scale input numbers to UNITS; default is 'none'; see UNIT below

--from-unit=N

specify the input unit size (instead of the default 1)

--grouping

use locale-defined grouping of digits, e.g. 1,000,000 (which means it has no effect in the C/POSIX locale)

--header[=N]

print (without converting) the first N header lines; N defaults to 1 if not specified

--invalid=MODE

failure mode for invalid numbers: MODE can be: abort (default), fail, warn, ignore

--padding=N

pad the output to N characters; positive N will right-align; negative N will left-align; padding is ignored if the output is wider than N; the default is to automatically pad if a whitespace is found

--round=METHOD

use METHOD for rounding when scaling; METHOD can be: up, down, from-zero (default), towards-zero, nearest

--suffix=SUFFIX

add SUFFIX to output numbers, and accept optional SUFFIX in input numbers

--to=UNIT

auto-scale output numbers to UNITS; see UNIT below

--to-unit=N

the output unit size (instead of the default 1)

-z, --zero-terminated

line delimiter is NUL, not newline

--help display this help and exit

--version

output version information and exit

UNIT options:

none no auto-scaling is done; suffixes will trigger an error

auto accept optional single/two letter suffix:

1K = 1000, 1Ki = 1024, 1M = 1000000, 1Mi = 1048576,

si accept optional single letter suffix:

1K = 1000, 1M = 1000000, ...

iec accept optional single letter suffix:

1K = 1024, 1M = 1048576, ...

iec-i accept optional two-letter suffix:

1Ki = 1024, 1Mi = 1048576, ...

FIELDS supports cut(1) style field ranges:

- N N'th field, counted from 1
- N- from N'th field, to end of line
- N-M from N'th to M'th field (inclusive)
- M from first to M'th field (inclusive)
- all fields

Multiple fields/ranges can be separated with commas

FORMAT must be suitable for printing one floating-point argument '%f'. Optional quote ('%f') will enable --grouping (if supported by current locale). Optional width value (%10f) will pad output. Optional zero (%010f) width will zero pad the number. Optional negative values (%-10f) will left align. Optional precision (%.1f) will override the input determined precision.

Exit status is 0 if all input numbers were successfully converted. By default, numfmt will stop at the first conversion error with exit status 2. With --invalid='fail' a warning is printed for each conversion error and the exit status is 2. With --invalid='warn' each conversion error is diagnosed, but the exit status is 0. With --invalid='ignore' conversion errors are not diagnosed and the exit status is 0.

## EXAMPLES

```
$ numfmt --to=si 1000
-> "1.0K"

$ numfmt --to=iec 2048
-> "2.0K"

$ numfmt --to=iec-i 4096
-> "4.0Ki"

$ echo 1K | numfmt --from=si
-> "1000"

$ echo 1K | numfmt --from=iec
-> "1024"

$ df -B1 | numfmt --header --field 2-4 --to=si

$ ls -l | numfmt --header --field 5 --to=iec

$ ls -lh | numfmt --header --field 5 --from=iec --padding=10

$ ls -lh | numfmt --header --field 5 --from=iec --format %10f
```

Written by Assaf Gordon.

## REPORTING BUGS

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Report any translation bugs to <<https://translationproject.org/team/>>

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## SEE ALSO

Full documentation <<https://www.gnu.org/software/coreutils/numfmt>>

or available locally via: info '(coreutils) numfmt invocation'

GNU coreutils 8.32

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