

df Cheatsheet

By Dejan Panovski • Updated on Mar 19, 2026 • [Download PDF](#)

Quick reference for the `df` command: check disk space, display formats, filesystem filtering, inodes, and custom output fields

`df` reports the amount of disk space used and available on filesystems. This cheatsheet covers display formats, filesystem filtering, inode usage, and custom output fields.

Basic Usage

Common ways to check disk space.

<code>df</code>	Show disk usage for all mounted filesystems
<code>df /path</code>	Show filesystem usage for the given path
<code>df -h</code>	Human-readable sizes (K, M, G — powers of 1024)
<code>df -H</code>	Human-readable sizes (K, M, G — powers of 1000)
<code>df -a</code>	Include all filesystems (including pseudo and duplicate)
<code>df --total</code>	Add a grand total row at the bottom

Size Formats

Control how sizes are displayed.

<code>-h</code>	Auto-scale using powers of 1024 (K, M, G)
<code>-H</code>	Auto-scale using powers of 1000 (SI units)
<code>-k</code>	Display sizes in 1K blocks (default on most systems)
<code>-m</code>	Display sizes in 1M blocks
<code>-BG</code>	Display sizes in 1G blocks
<code>-B SIZE</code>	Use SIZE-byte blocks (e.g., <code>-BM</code> , <code>-BG</code> , <code>-B512</code>)

Output Columns

What each column in the default output means.

Filesystem	Device or remote path of the filesystem
1K-blocks / Size	Total size of the filesystem
Used	Space currently in use
Available	Space available for use
Use%	Percentage of space used
Mounted on	Directory where the filesystem is mounted

Filesystem Type

Show or filter by filesystem type.

-T	Show filesystem type column
-t TYPE	Only show filesystems of the given type
-x TYPE	Exclude filesystems of the given type
-l	Show only local filesystems (exclude network mounts)

Examples:

df -t ext4	Show only ext4 filesystems
df -x tmpfs	Exclude tmpfs from output
df -Th	Show type column with human-readable sizes

Inode Usage

Show inode counts instead of block usage.

df -i	Show inode usage for all filesystems
df -ih	Show inode usage with human-readable counts
df -i /path	Show inode usage for a specific filesystem
Inodes	Total number of inodes
IUsed	Inodes in use
IFree	Inodes available
IUse%	Percentage of inodes used

Custom Output Fields

Select specific fields with `--output`.

source	Filesystem device
fstype	Filesystem type
size	Total size
used	Space used
avail	Space available
pcent	Percentage used
iused	Inodes used
iavail	Inodes available
ipcent	Inode percentage used
target	Mount point

Example: `df --output=source,size,used,avail,pcent,target -h`

Related Guides

Use these references for deeper disk usage workflows.

[How to Check Disk Space in Linux Using the df Command](#)

Full `df` guide with practical examples

[Du Command in Linux](#)

Check disk usage for directories and files