

NAME

zfs-list - list properties of ZFS datasets

SYNOPSIS

```
zfs list [-r|-d depth] [-Hp] [-o property[,property]<?>] [-s property]<?> [-S property]<?>
[-t type[,type]<?>] [filesystem|volume|snapshot]<?>
```

DESCRIPTION

If specified, you can list property information by the absolute pathname or the relative pathname. By default, all file systems and volumes are displayed. Snapshots are displayed if the **listsnapshots** pool property is **on** (the default is **off**), or if the **-t snapshot** or **-t all** options are specified. The following fields are displayed: **name**, **used**, **available**, **referenced**, **mountpoint**.

-H Used for scripting mode. Do not print headers and separate fields by a single tab instead of arbitrary white space.

-d *depth*

Recursively display any children of the dataset, limiting the recursion to *depth*. A *depth* of **1** will display only the dataset and its direct children.

-o *property*

A comma-separated list of properties to display. The property must be:

- One of the properties described in the *Native Properties* section of `zfsprops(7)`
- A user property
- The value **name** to display the dataset name
- The value **space** to display space usage properties on file systems and volumes. This is a shortcut for specifying **-o name,avail,used,usedsnap,useddds,usedrefreserv,usedchild -t filesystem,volume**.

-p Display numbers in parsable (exact) values.

-r Recursively display any children of the dataset on the command line.

-s *property*

A property for sorting the output by column in ascending order based on the value of the property. The property must be one of the properties described in the *Properties* section of `zfsprops(7)` or the value **name** to sort by the dataset name. Multiple properties can be specified at one time using multiple **-s** property options. Multiple **-s** options are evaluated from left to right in decreasing order of importance. The following is a list of sorting criteria:

- Numeric types sort in numeric order.

- String types sort in alphabetical order.
- Types inappropriate for a row sort that row to the literal bottom, regardless of the specified ordering.

If no sorting options are specified the existing behavior of **zfs list** is preserved.

-S *property*

Same as **-s**, but sorts by property in descending order.

-t *type*

A comma-separated list of types to display, where *type* is one of **filesystem**, **snapshot**, **volume**, **bookmark**, or **all**. For example, specifying **-t snapshot** displays only snapshots.

EXAMPLES

Example 1: Listing ZFS Datasets

The following command lists all active file systems and volumes in the system. Snapshots are displayed if **listsnapshots=on**. The default is **off**. See `zpoolprops(7)` for more information on pool properties.

```
# zfs list
NAME                USED AVAIL REFER MOUNTPOINT
pool                450K 457G  18K /pool
pool/home           315K 457G  21K /export/home
pool/home/anne      18K 457G  18K /export/home/anne
pool/home/bob       276K 457G  276K /export/home/bob
```

SEE ALSO

`zfsprops(7)`, `zfs-get(8)`