Rocky Enterprise Linux 9.2 Manual Pages on command 'e2freefrag.8'

$ man e2freefrag.8

E2FREEFRAG(8)   System Manager's Manual   E2FREEFRAG(8)

NAME

    e2freefrag - report free space fragmentation information

SYNOPSIS

    e2freefrag [-c chunk_kb] [-h] filesys

DESCRIPTION

    e2freefrag is used to report free space fragmentation on ext2/3/4 file systems. filesys

    is the file system device name (e.g. /dev/hdc1, /dev/md0). The e2freefrag program will

    scan the block bitmap information to check how many free blocks are present as contiguous

    and aligned free space. The percentage of contiguous free blocks of size and of alignment

    chunk_kb is reported. It also displays the minimum/maximum/average free chunk size in the

    file system, along with a histogram of all free chunks. This information can be used to

    gauge the level of free space fragmentation in the file system.

OPTIONS

    -c chunk_kb

        If a chunk size is specified, then e2freefrag will print how many free chunks of

        size chunk_kb are available in units of kilobytes (Kb). The chunk size must be a

        power of two and be larger than file system block size.

    -h   Print the usage of the program.

EXAMPLE

    # e2freefrag /dev/vgroot/lvhome

    Device: /dev/vgroot/lvhome

    Blocksize: 4096 bytes

Total blocks: 1504085

Free blocks: 292995 (19.5%)

Min. free extent: 4 KB

Max. free extent: 24008 KB

Avg. free extent: 252 KB

HISTOGRAM OF FREE EXTENT SIZES:

Extent Size Range :	Free extents	Free Blocks	Percent
4K... 8K- :	704	704	0.2%
8K... 16K- :	810	1979	0.7%
16K... 32K- :	843	4467	1.5%
32K... 64K- :	579	6263	2.1%
64K... 128K- :	493	11067	3.8%
128K... 256K- :	394	18097	6.2%
256K... 512K- :	281	25477	8.7%
512K... 1024K- :	253	44914	15.3%
1M... 2M- :	143	51897	17.7%
2M... 4M- :	73	50683	17.3%
4M... 8M- :	37	52417	17.9%
8M... 16M- :	7	19028	6.5%
16M... 32M- :	1	6002	2.0%

AUTHOR

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SEE ALSO

debugfs(8), dumpe2fs(8), e2fsck(8)

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