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 filesystem 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 filesystem, along with a histogram of all free chunks. This information can be used to gauge the level of free space fragmentation in the filesystem.

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 filesystem 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-: 1979 810 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-: 25477 8.7% 281 44914 15.3% 512K... 1024K-: 253 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)