### **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**e2fr eefrag** 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% 810 8K... 16K-: 1979 0.7% 843 16K... 32K-: 4467 1.5% 579 32K... 64K-: 6263 2.1% 64K... 128K-: 493 11067 3.8% 128K... 256K-: 18097 6.2% 394 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)