**NAME**

   du − estimate file space usage

**SYNOPSIS**

   **du** [*OPTION*]... [*FILE*]...

   **du** [*OPTION*]... *--files0-from=F*

**DESCRIPTION**

   Summarize disk usage of the set of FILEs, recursively for directories.

   Mandatory arguments to long options are mandatory for short options too.

   **−0**, **−−null**

   end each output line with NUL, not newline

   **−a**, **−−all**

   write counts for all files, not just directories

   **−−apparent−size**

   print apparent sizes, rather than disk usage; although the apparent size is usually smaller, it may be larger due to holes in ('sparse') files, internal fragmentation, indirect blocks, and the like

   **−B**, **−−block−size**=*SIZE*

   scale sizes by SIZE before printing them; e.g., '−BM' prints sizes in units of 1,048,576 bytes; see SIZE format below

   **−b**, **−−bytes**

   equivalent to '−−apparent−size **−−block−size**=*1*'

   **−c**, **−−total**

   produce a grand total

   **−D**, **−−dereference−args**

   dereference only symlinks that are listed on the command line

   **−d**, **−−max−depth**=*N*

   print the total for a directory (or file, with **−−all**) only if it is N or fewer levels below the command line argument;  **−−max−depth**=*0* is the same as **−−summarize**

   **−−files0−from**=*F*

   summarize disk usage of the NUL−terminated file names specified in file F; if F is −, then read names from standard input

   **−H**       equivalent to **−−dereference−args** (**−D**)

   **−h**, **−−human−readable**

   print sizes in human readable format (e.g., 1K 234M 2G)

   **−−inodes**

   list inode usage information instead of block usage

   **−k**       like **−−block−size**=*1K*

   **−L**, **−−dereference**

   dereference all symbolic links

   **−l**, **−−count−links**

   count sizes many times if hard linked

   **−m**       like **−−block−size**=*1M*

   **−P**, **−−no−dereference**

   don't follow any symbolic links (this is the default)

   **−S**, **−−separate−dirs**

   for directories do not include size of subdirectories

**−−si**     like **−h**, but use powers of 1000 not 1024

**−s, −−summarize**
> display only a total for each argument

**−t, −−threshold**=*SIZE*
> exclude entries smaller than SIZE if positive, or entries greater than SIZE if negative

**−−time**  show time of the last modification of any file in the directory, or any of its subdirectories

**−−time**=*WORD*
> show time as WORD instead of modification time: atime, access, use, ctime or status

**−−time−style**=*STYLE*
> show times using STYLE, which can be: full−iso, long−iso, iso, or +FORMAT; FORMAT is inter-
> preted like in 'date'

**−X**, **−−exclude−from**=*FILE*
> exclude files that match any pattern in FILE

**−−exclude**=*PATTERN*
> exclude files that match PATTERN

**−x, −−one−file−system**
> skip directories on different file systems

**−−help**  display this help and exit

**−−version**
> output version information and exit

Display values are in units of the first available SIZE from **−−block−size**, and the DU_BLOCK_SIZE, BLOCK_SIZE and BLOCKSIZE environment variables. Otherwise, units default to 1024 bytes (or 512 if POSIXLY_CORRECT is set).

The SIZE argument is an integer and optional unit (example: 10K is 10*1024). Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000). Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

## PATTERNS
PATTERN is a shell pattern (not a regular expression). The pattern **?** matches any one character, whereas **\*** matches any string (composed of zero, one or multiple characters). For example, **\*.o** will match any files whose names end in **.o**. Therefore, the command

> **du −−exclude='\*.o'**

will skip all files and subdirectories ending in **.o** (including the file **.o** itself).

## AUTHOR
Written by Torbjorn Granlund, David MacKenzie, Paul Eggert, and Jim Meyering.

## REPORTING BUGS
GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report any translation bugs to <https://translationproject.org/team/>

## COPYRIGHT
Copyright © 2020 Free Software Foundation, Inc. License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.

## SEE ALSO
Full documentation <https://www.gnu.org/software/coreutils/du>
or available locally via: info '(coreutils) du invocation'