NAME

size - list section sizes and total size of binary files

SYNOPSIS

```
size [-A|-B|-G|--format=compatibility]
[--help]
[-d|-o|-x|--radix=number]
[--common]
[-t|--totals]
[--target=bfdname] [-V|--version]
[objfile...]
```

DESCRIPTION

The GNU **size** utility lists the section sizes and the total size for each of the binary files *objfile* on its argument list. By default, one line of output is generated for each file or each module if the file is an archive.

objfile... are the files to be examined. If none are specified, the filea . out will be used instead.

OPTIONS

The command-line options have the following meanings:

-A

 $-\mathbf{B}$

 $-\mathbf{G}$

--format=compatibility

Using one of these options, you can choose whether the output from GNU **size** resembles output from System V **size** (using **-A**, or **--format=sysv**), or Berkeley **size** (using **-B**, or **--format=berkeley**). The default is the one-line format similar to Berkeley's. Alternatively, you can choose the GNU format output (using **-G**, or **--format=gnu**), this is similar to Berkeley's output format, but sizes are counted differently.

Here is an example of the Berkeley (default) format of output from size:

```
$ size --format=Berkeley ranlib size
  text   data   bss   dec   hex filename
294880  81920  11592  388392  5ed28 ranlib
294880  81920  11888  388688  5ee50 size
```

The Berkeley style output counts read only data in the text column, not in the data column, the dec and hex columns both display the sum of the text, data, and bss columns in decimal and hexadecimal respectively.

The GNU format counts read only data in the data column, not the text column, and only displays the sum of the text, data, and bss columns once, in the total column. The --radix option can be used to change the number base for all columns. Here is the same data displayed with GNU conventions:

This is the same data, but displayed closer to System V conventions:

\$ sizef	ormat=SysV	ranlib size
ranlib :		
section	size	addr
.text	294880	8192
.data	81920	303104
.bss	11592	385024
Total	388392	
size :		
section	size	addr
.text	294880	8192
.data	81920	303104
.bss	11888	385024
Total	388688	

--help

Show a summary of acceptable arguments and options.

 $-\mathbf{d}$

-о -х

--radix=number

Using one of these options, you can control whether the size of each section is given in decimal (-d, or --radix=10); octal (-o, or --radix=8); or hexadecimal (-x, or --radix=16). In --radix=number, only the three values (8, 10, 16) are supported. The total size is always given in two radices; decimal and hexadecimal for -d or -x output, or octal and hexadecimal if you're using -o.

--common

Print total size of common symbols in each file. When using Berkeley or GNU format these are included in the bss size.

-t

--totals

Show totals of all objects listed (Berkeley or GNU format mode only).

--target=bfdname

Specify that the object-code format for *objfile* is *bfdname*. This option may not be necessary;**size** can automatically recognize many formats.

$-\mathbf{V}$

--version

Display the version number of size.

@file

Read command-line options from *file*. The options read are inserted in place of the original @*file* option. If *file* does not e xist, or cannot be read, then the option will be treated literally, and not removed.

Options in *file* are separated by whitespace. A whitespace character may be included in an option by surrounding the entire option in either single or double quotes. Any character (including a backslash) may be included by prefixing the character to be included with a backslash. The *file* may itself contain additional @file options; any such options will be processed recursively.

SEE ALSO

ar (1), **objdump** (1), **readelf** (1), and the Info entries for *binutils*.

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