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# llvm-size – print size information ¶

## SYNOPSIS ¶

llvm-size [options] [input...]

## DESCRIPTION ¶

llvm-size is a tool that prints size information for binary files. It is intended to be a drop-in replacement for GNU's size.

The tool prints size information for each input specified. If no input is specified, the program prints size information for a.out. If "-" is specified as an input file, llvm-size reads a file from the standard input stream. If an input is an archive, size information will be displayed for all its members.

## OPTIONS ¶

-A ¶

Equivalent to [--format](#) with a value of sysv.

--arch=<arch> ¶

Architecture(s) from Mach-O universal binaries to display information for.

-B ¶

Equivalent to [--format](#) with a value of berkeley.

--common ¶

Include ELF common symbol sizes in bss size for berkeley output format, or as a separate section entry for sysv output. If not specified, these symbols are ignored.

-d ¶

Equivalent to [--radix](#) with a value of 10.

-l ¶

Display verbose address and offset information for segments and sections in Mach-O files in darwin format.

--format=<format> ¶

Set the output format to the <format> specified. Available <format> options are berkeley (the default), sysv and darwin.

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Berkeley output summarises text, data and bss sizes in each file, as shown below for a typical pair of ELF files:

```
$ llvm-size --format=berkeley test.o test2.o
text    data    bss    dec    hex filename
182     16      5     203    cb test.elf
82      8       1     91     5b test2.o
```

For Mach-O files, the output format is slightly different:

```
$ llvm-size --format=berkeley macho.obj macho2.obj
__TEXT __DATA __OBJC others dec hex filename
4       8       0       0     12    c macho.obj
16      32      0       0     48   30 macho2.obj
```

Sysv output displays size and address information for most sections, with each file being listed separately:

```
$ llvm-size --format=sysv test.elf test2.o
test.elf :
section      size      addr
.eh_frame    92      2097496
.text        90      2101248
.data        16      2105344
.bss         5      2105360
.comment     209       0
Total        412

test2.o :
section      size      addr
.text        26       0
.data         8       0
.bss          1       0
.comment     106       0
.note.GNU-stack 0       0
.eh_frame     56       0
.llvm_addrsig 2       0
Total        199
```

darwin format only affects Mach-O input files. If an input of a different file format is specified, `llvm-size` falls back to `berkeley` format. When producing `darwin` format, the tool displays information about segments and sections:

```
$ llvm-size --format=darwin macho.obj macho2.obj
macho.obj:
Segment : 12
    Section (__TEXT, __text): 4
    Section (__DATA, __data): 8
    total 12
total 12
macho2.obj:
Segment : 48
    Section (__TEXT, __text): 16
    Section (__DATA, __data): 32
    total 48
total 48
```

`--help, -h` ⓘ

Display a summary of command line options.

`--help-list` ⓘ

Display an uncategorized summary of command line options.

`-m` ⓘ

Equivalent to `--format` with a value of `darwin`.

`-o` ⓘ

Equivalent to `--radix` with a value of 8.

`--radix=<value>` ¶

Display size information in the specified radix. Permitted values are 8, 10 (the default) and 16 for octal, decimal and hexadecimal output respectively.

Example:

```
$ llvm-size --radix=8 test.o
text    data    bss    oct    hex filename
0152    04      04    162    72 test.o

$ llvm-size --radix=10 test.o
text    data    bss    dec    hex filename
106     4        4    114    72 test.o

$ llvm-size --radix=16 test.o
text    data    bss    dec    hex filename
0x6a    0x4     0x4    114    72 test.o
```

`--totals, -t` ¶

Applies only to berkeley output format. Display the totals for all listed fields, in addition to the individual file listings.

Example:

```
$ llvm-size --totals test.elf test2.o
text    data    bss    dec    hex filename
182     16      5    203    cb test.elf
82      8      1     91    5b test2.o
264     24      6    294    126 (TOTALS)
```

`--version` ¶

Display the version of the `llvm-size` executable.

`-x` ¶

Equivalent to `--radix` with a value of 16.

`@<FILE>` ¶

Read command-line options from response file `<FILE>`.

## EXIT STATUS ¶

`llvm-size` exits with a non-zero exit code if there is an error. Otherwise, it exits with code 0.

## BUGS ¶

To report bugs, please visit <http://llvm.org/bugs/>.

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