

NAME

llvm-readelf - GNU-style LLVM Object Reader

SYNOPSIS

llvm-readelf [*options*] [*input...*]

DESCRIPTION

The **llvm-readelf** tool displays low-level format-specific information about one or more object files.

If **input** is "-", **llvm-readelf** reads from standard input. Otherwise, it will read from the specified **filenames**.

OPTIONS**--all, -a**

Equivalent to specifying all the main display options relevant to the file format.

--addrsig

Display the address-significance table.

--arch-specific, -A

Display architecture-specific information, e.g. the ARM attributes section on ARM.

--bb-addr-map

Display the contents of the basic block address map section(s), which contain the address of each function, along with the relative offset of each basic block.

--demangle, -C

Display demangled symbol names in the output.

--dependent-libraries

Display the dependent libraries section.

--dyn-relocations

Display the dynamic relocation entries.

--dyn-symbols, --dyn-syms

Display the dynamic symbol table.

--dynamic-table, --dynamic, -d

Display the dynamic table.

--cg-profile

Display the callgraph profile section.

--histogram, -I

Display a bucket list histogram for dynamic symbol hash tables.

--elf-linker-options

Display the linker options section.

--elf-output-style=<value>

Format ELF information in the specified style. Valid options are **LLVM**, **GNU**, and **JSON**. **LLVM** output is an expanded and structured format. **GNU** (the default) output mimics the equivalent GNU **readelf** output. **JSON** is JSON formatted output intended for machine consumption.

--section-groups, -g

Display section groups.

--expand-relocs

When used with *--relocations*, display each relocation in an expanded multi-line format.

--file-header, -h

Display file headers.

--gnu-hash-table

Display the GNU hash table for dynamic symbols.

--hash-symbols

Display the expanded hash table with dynamic symbol data.

--hash-table

Display the hash table for dynamic symbols.

--headers, -e

Equivalent to setting: *--file-header*, *--program-headers*, and *--sections*.

--help

Display a summary of command line options.

--hex-dump=<section[,section,...]>, -x

Display the specified section(s) as hexadecimal bytes. **section** may be a section index or section name.

--needed-libs

Display the needed libraries.

--no-demangle

Do not display demangled symbol names in the output. On by default.

--notes, -n

Display all notes.

--pretty-print

When used with *--elf-output-style*, JSON output will be formatted in a more readable format.

--program-headers, --segments, -l

Display the program headers.

--raw-reloc

Do not decode relocations in RELR relocation sections when displaying them.

--relocations, --relocs, -r

Display the relocation entries in the file.

--sections, --section-headers, -S

Display all sections.

--section-data

When used with *--sections*, display section data for each section shown. This option has no effect for GNU style output.

--section-details, -t

Display all section details. Used as an alternative to *--sections*.

--section-mapping

Display the section to segment mapping.

--section-relocations

When used with *--sections*, display relocations for each section shown. This option has no effect

for GNU style output.

--section-symbols

When used with *--sections*, display symbols for each section shown. This option has no effect for GNU style output.

--stackmap

Display contents of the stackmap section.

--stack-sizes

Display the contents of the stack sizes section(s), i.e. pairs of function names and the size of their stack frames. Currently only implemented for GNU style output.

--string-dump=<section[,section,...]>, -p

Display the specified section(s) as a list of strings. **section** may be a section index or section name.

--symbols, --syms, -s

Display the symbol table. Also display the dynamic symbol table when using GNU output style for ELF.

--unwind, -u

Display unwind information.

--version

Display the version of the **llvm-readelf** executable.

--version-info, -V

Display version sections.

--wide, -W

Ignored for GNU readelf compatibility. The output is already similar to when using *-W* with GNU readelf.

@<FILE>

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

EXIT STATUS

llvm-readelf returns 0 under normal operation. It returns a non-zero exit code if there were any errors.

SEE ALSO

llvm-nm(1), llvm-objdump(1), llvm-readobj(1)

AUTHOR

Maintained by the LLVM Team (<https://llvm.org/>).

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