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Rocky Enterprise Linux 9.2 Manual Pages on command 'Idd.1'

# \$ man Idd.1

LDD(1) Linux Programmer's Manual LDD(1)

## NAME

ldd - print shared object dependencies

## SYNOPSIS

Idd [option]... file...

### DESCRIPTION

Idd prints the shared objects (shared libraries) required by each pro?

gram or shared object specified on the command line. An example of its

use and output (using sed(1) to trim leading white space for readabil?

ity in this page) is the following:

\$ ldd /bin/ls | sed 's/^ \*/ /'

linux-vdso.so.1 (0x00007ffcc3563000)

libselinux.so.1 => /lib64/libselinux.so.1 (0x00007f87e5459000)

libcap.so.2 => /lib64/libcap.so.2 (0x00007f87e5254000)

libc.so.6 => /lib64/libc.so.6 (0x00007f87e4e92000)

libpcre.so.1 => /lib64/libpcre.so.1 (0x00007f87e4c22000)

libdl.so.2 => /lib64/libdl.so.2 (0x00007f87e4a1e000)

/lib64/ld-linux-x86-64.so.2 (0x00005574bf12e000)

libattr.so.1 => /lib64/libattr.so.1 (0x00007f87e4817000)

libpthread.so.0 => /lib64/libpthread.so.0 (0x00007f87e45fa000) In the usual case, Idd invokes the standard dynamic linker (see Id.so(8)) with the LD\_TRACE\_LOADED\_OBJECTS environment variable set to 1. This causes the dynamic linker to inspect the program's dynamic de? pendencies, and find (according to the rules described in Id.so(8)) and load the objects that satisfy those dependencies. For each dependency, Idd displays the location of the matching object and the (hexadecimal) address at which it is loaded. (The linux-vdso and Id-linux shared de? pendencies are special; see vdso(7) and Id.so(8).)

### Security

Be aware that in some circumstances (e.g., where the program specifies an ELF interpreter other than Id-linux.so), some versions of Idd may attempt to obtain the dependency information by attempting to directly execute the program, which may lead to the execution of whatever code is defined in the program's ELF interpreter, and perhaps to execution of the program itself. (In glibc versions before 2.27, the upstream Idd implementation did this for example, although most distributions provided a modified version that did not.) Thus, you should never employ Idd on an untrusted executable, since

this may result in the execution of arbitrary code. A safer alterna? tive when dealing with untrusted executables is:

\$ objdump -p /path/to/program | grep NEEDED Note, however, that this alternative shows only the direct dependencies of the executable, while ldd shows the entire dependency tree of the executable.

### OPTIONS

#### --version

Print the version number of ldd.

### -v, --verbose

Print all information, including, for example, symbol versioning

information.

Print unused direct dependencies. (Since glibc 2.3.4.)

### -d, --data-relocs

Perform relocations and report any missing objects (ELF only).

-r, --function-relocs

Perform relocations for both data objects and functions, and re?

port any missing objects or functions (ELF only).

--help Usage information.

# BUGS

Idd does not work on a.out shared libraries.

Idd does not work with some extremely old a.out programs which were

built before Idd support was added to the compiler releases. If you

use Idd on one of these programs, the program will attempt to run with

argc = 0 and the results will be unpredictable.

# SEE ALSO

pldd(1), sprof(1), ld.so(8), ldconfig(8)

# COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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