NAME

ldd - list dynamic object dependencies

SYNOPSIS

ldd [-a] [-f format [-f format]] program ...

DESCRIPTION

The **ldd** utility displays all shared objects that are needed to run the given program or to load the given shared object. Contrary to nm(1), the list includes "indirect" dependencies that are the result of needed shared objects which themselves depend on yet other shared objects.

Zero, one or two **-f** options may be given. The argument is a format string passed to rtld(1) and allows customization of **ldd**'s output. If one is given, it sets LD_TRACE_LOADED_OBJECTS_FMT1. If two are given, they set LD_TRACE_LOADED_OBJECTS_FMT1 and LD_TRACE_LOADED_OBJECTS_FMT2, respectively. See rtld(1) for details, including a list of recognized conversion characters.

The **-a** option displays the list of all objects that are needed by each loaded object.

IMPLEMENTATION NOTES

ldd lists the dependencies of an executable by setting rtld(1) environment variables and running the executable in a child process. If the executable is corrupt or invalid, **ldd** may therefore fail without providing any diagnostic error messages.

EXAMPLES

The following is an example of a shell pipeline which uses the **-f** option. It will print a report of all ELF binaries in the current directory, which link against the old libc.so.6:

find . -type f | xargs file -F ' ' | grep 'ELF.*dynamically' | cut -f1 -d' ' | xargs ldd -f '%A %o\n' | grep -F libc.so.6

SEE ALSO

ld(1), nm(1), readelf(1), rtld(1)

HISTORY

A ldd utility first appeared in SunOS 4.0, it appeared in its current form in FreeBSD 1.1.