

**NAME**

ldconfig – configure dynamic linker run-time bindings

**SYNOPSIS**

**/sbin/ldconfig** [**-nNvVX**] [**-C** *cache*] [**-f** *conf*] [**-r** *root*] *directory* ...

**/sbin/ldconfig** **-l** [**-v**] *library* ...

**/sbin/ldconfig** **-p**

**DESCRIPTION**

**ldconfig** creates the necessary links and cache to the most recent shared libraries found in the directories specified on the command line, in the file */etc/ld.so.conf*, and in the trusted directories, */lib* and */usr/lib*. On some 64-bit architectures such as x86-64, */lib* and */usr/lib* are the trusted directories for 32-bit libraries, while */lib64* and */usr/lib64* are used for 64-bit libraries.

The cache is used by the run-time linker, *ld.so* or *ld-linux.so*. **ldconfig** checks the header and filenames of the libraries it encounters when determining which versions should have their links updated. **ldconfig** should normally be run by the superuser as it may require write permission on some root owned directories and files.

**ldconfig** will look only at files that are named *lib\*.so\** (for regular shared objects) or *ld-\*.so\** (for the dynamic loader itself). Other files will be ignored. Also, **ldconfig** expects a certain pattern to how the symbolic links are set up, like this example, where the middle file (**libfoo.so.1** here) is the SONAME for the library:

```
libfoo.so -> libfoo.so.1 -> libfoo.so.1.12
```

Failure to follow this pattern may result in compatibility issues after an upgrade.

**OPTIONS**

**-c** *fnt*

**--format=***fnt*

(Since glibc 2.2) Use cache format *fnt*, which is one of **old**, **new**, or **compat**. Since glibc 2.32, the default is **new**. Before that, it was **compat**.

**-C** *cache*

Use *cache* instead of */etc/ld.so.cache*.

**-f** *conf* Use *conf* instead of */etc/ld.so.conf*.

**-i**

**--ignore-aux-cache**

(Since glibc 2.7) Ignore auxiliary cache file.

**-l** (Since glibc 2.2) Interpret each operand as a library name and configure its links. Intended for use only by experts.

**-n** Process only the directories specified on the command line; don't process the trusted directories, nor those specified in */etc/ld.so.conf*. Implies **-N**.

**-N** Don't rebuild the cache. Unless **-X** is also specified, links are still updated.

**-p**

**--print-cache**

Print the lists of directories and candidate libraries stored in the current cache.

**-r** *root* Change to and use *root* as the root directory.

**-v**

**--verbose**

Verbose mode. Print current version number, the name of each directory as it is scanned, and any links that are created. Overrides quiet mode.

**-V**

**--version**

Print program version.

**-X** Don't update links. Unless **-N** is also specified, the cache is still rebuilt.

**FILES**

*/lib/ld.so*

is the run-time linker/loader.

*/etc/ld.so.conf*

contains a list of directories, one per line, in which to search for libraries.

*/etc/ld.so.cache*

contains an ordered list of libraries found in the directories specified in */etc/ld.so.conf*, as well as those found in the trusted directories.

**SEE ALSO**

**ldd(1)**, **ld.so(8)**