

## NAME

`clisp-link` – link a new external module to [CLISP](#)<sup>[1]</sup>.

## SYNOPSIS

**clisp-link** [**create**] [*module*] [*file...*]

**clisp-link** [**add**] [*source*] [*destination*] [*module...*]

**clisp-link** [**run**] [*source*] [*module...*]

**clisp-link** [**install**] [*module...*]

## DESCRIPTION

This shell script operates on [CLISP](#)<sup>[1]</sup> module sets and linking sets:

- **creates** new module sets out of source files
- **adds** module sets to a linking set to produce a new linking set
- **runs** [CLISP](#)<sup>[1]</sup> with module sets added
- *Only in [CLISP](#)<sup>[1]</sup> built without configure flag **--without-dynamic-modules**.*

**installs** new module sets for general use

## OPTIONS

### create

The command

\$ **clisp-link create** *module file ...*

creates a module set in *module* directory which refers (via symbolic links) to files *file...* The files are expected to be modules of their own.

### add

The command

\$ **clisp-link add** *source destination module ...*

combines the linking set in directory *source* and the modules in directories *module...* to a new linking set, in the directory *destination* which is newly created.

### run

The command

\$ **clisp-link run** *source module ...*

runs the linking set in directory *source*, with the modules in directories *module...* Unless [CLISP](#)<sup>[1]</sup> has been built with the configuration option **--without-dynamic-modules**, the loading will be performed using **SYS::DYNLOAD-MODULES**. Otherwise – this is much slower – a temporary linking set will be created and deleted afterwards.

### install

*Only in [CLISP](#)<sup>[1]</sup> built without configure flag **--without-dynamic-modules**.*

The command

\$ **clisp-link install** *module ...*

installs the modules in directories *module...* into *CUSTOM.\*LIB-DIRECTORY\** or, if it is not writable to the user (e.g., if a system-wide [CLISP](#)<sup>[1]</sup> installation is used and the user does not have

administrative privileges), into *CUSTOM:\*USER-LIB-DIRECTORY\**.

Variable *CUSTOM:\*USER-LIB-DIRECTORY\** is initially set to ([MERGE-PATHNAMES](#)<sup>[2]</sup> ".clisp/" ([USER-HOMEDIR-PATHNAME](#)<sup>[3]</sup>)) if that directory exists, and can be reset in the RC file.

### Note

Do **not** add *CUSTOM:\*USER-LIB-DIRECTORY\** to *CUSTOM:\*LOAD-PATHS\** or under any element thereof. Use **REQUIRE** instead of **LOAD** to load dynamic modules.

For this command to work, each *module* directory must contain a Makefile with a **clisp-module-distrib** target which uses **LN** to distribute the files necessary to run the module into **destdir**. This is in addition to the general requirement that **link.sh** is present.

## EXAMPLES

See Section 32.2.6, “Example”.

## FILES

**clisp-link** needs a “link kit” directory containing:

- "modules.c"
- "clisp.h"

**clisp-link** expects to find these files in a subdirectory linkkit/ of the installation directory (i.e., *CUSTOM:\*LIB-DIRECTORY\**) which it acquires by running

```
$ `dirname $0`/clisp -b
```

This can be overridden by the [environment variable](#)<sup>[4]</sup> **CLISP\_LINKKIT**.

## SEE ALSO

CLISP impnotes  
clisp(1)

## AUTHORS

**Bruno Haible** <<http://www.haible.de/bruno/>>

The original author and long-time maintainer.

**Michael Stoll** <<http://www.mathe2.uni-bayreuth.de/stoll/>>

The original author.

**Sam Steingold** <<http://sds.podval.org/>>

Co-maintainer since 1998.

### Others

See *COPYRIGHT* (file in the CLISP sources) for the list of other contributors and the license.

## COPYRIGHT

Copyright © 1992-2024 Bruno Haible

Copyright © 1998-2018 Sam Steingold

## NOTES

1. **CLISP**  
<http://clisp.org>
2. **MERGE-PATHNAMES**  
[http://www.ai.mit.edu/projects/iiip/doc/CommonLISP/HyperSpec/Body/fun\\_merge-pathnames.html](http://www.ai.mit.edu/projects/iiip/doc/CommonLISP/HyperSpec/Body/fun_merge-pathnames.html)
3. **USER-HOMEDIR-PATHNAME**  
[http://www.ai.mit.edu/projects/iiip/doc/CommonLISP/HyperSpec/Body/fun\\_user-homedir-pathname.html](http://www.ai.mit.edu/projects/iiip/doc/CommonLISP/HyperSpec/Body/fun_user-homedir-pathname.html)

4. environment variable  
[set \$man.base.url.for.relative.links]/basedefs/V1\_chap08.html