## NAME

clisp-link − link a new external module to **CLISP**[1].

## 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**[1] module sets and linking sets:

- **create**s new module sets out of source files
- **add**s module sets to a linking set to produce a new linking set
- **run**s **CLISP**[1] with module sets added
- *Only in* **CLISP**[1] *built* **without** *configure flag* **−−without−dynamic−modules**.

  **install**s 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**[1] 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**[1] *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**[1] 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**[2] ".clisp/" (**USER−HOMEDIR−PATHNAME**[3])) 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**[4] **CLISP_LINKKIT**.

## SEE ALSO

CLISP impnotes
clisp(1)

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## NOTES

1. **CLISP**
   http://clisp.org
2. **MERGE-PATHNAMES**
   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

4. environment variable
   [set $man.base.url.for.relative.links]/basedefs/V1_chap08.html