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**.

      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**[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)

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 © 1992-2010 Bruno Haible
Copyright © 1998-2010 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

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