

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:

- **creates** new module sets out of source files
- **adds** module sets to a linking set to produce a new linking set
- **runs** **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)

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NOTES

1. **CLISP**
<http://clisp.cons.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/xbd_chap08.html