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1 Systems

The main system appears first, followed by any subsystem dependency.

1.1 lisp-stat

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License MS-PL

Description

A statistical computing environment for Common Lisp

Version 1.0

Dependencies

- alexandria
- array-operations
- cl-semver
- data-frame
- dfio
- num-utils
- select
- split-sequence

 $\textbf{Source} \qquad [\texttt{lisp-stat.asd}], \ page \ 5, \ (file)$

Directory s:/src/lisp-stat/

Components

- [pkgdcls.lisp], page 5, (file)
- [ls-init.lisp], page 5, (file)
- [license], page 6, (file)
- [base], page 3, (module)
- [docs], page 3, (module)

2 Modules

Modules are listed depth-first from the system components tree.

2.1 lisp-stat/base

 $\textbf{Parent} \qquad [\texttt{lisp-stat}], \, page \, 1, \, (system)$

Location base/

Components

- [utilities.lisp], page 5, (file)
- [variables.lisp], page 5, (file)

2.2 lisp-stat/docs

Parent [lisp-stat], page 1, (system)

Location docs/

Component

[doc-strings.lisp], page 6, (file)

3 Files

Files are sorted by type and then listed depth-first from the systems components trees.

3.1 Lisp

3.1.1 lisp-stat.asd

Location lisp-stat.asd

Systems [lisp-stat], page 1, (system)

3.1.2 lisp-stat/pkgdcls.lisp

Parent [lisp-stat], page 1, (system)

Location pkgdcls.lisp

Packages

- [lisp-stat], page 7,
- [ls-user], page 7,

3.1.3 lisp-stat/ls-init.lisp

Parent [lisp-stat], page 1, (system)

Location ls-init.lisp

Exported Definitions

[*ls-version*], page 9, (special variable)

Internal Definitions

- [*release-name*], page 10, (special variable)
- [setup-ls-translations], page 10, (function)

3.1.4 lisp-stat/base/utilities.lisp

Parent [base], page 3, (module)

Location base/utilities.lisp

3.1.5 lisp-stat/base/variables.lisp

Dependency

[utilities.lisp], page 5, (file)

Parent [base], page 3, (module)

Location base/variables.lisp

Exported Definitions

- [def], page 9, (macro)
- [savevar], page 9, (function)
- [undef], page 9, (function)
- [variables], page 9, (function)

Internal Definitions

- [*ask-on-redefine*], page 10, (special variable)
- [*variables*], page 10, (special variable)
- [save], page 10, (generic function)

$3.1.6 \ {\tt lisp-stat/docs/doc-strings.lisp}$

Parent [docs], page 3, (module)

Location docs/doc-strings.lisp

3.2 Static

3.2.1 lisp-stat/license

Parent [lisp-stat], page 1, (system)

Location LICENSE

4 Packages

Packages are listed by definition order.

4.1 lisp-stat

Base functions and variables for Lisp-Stat

Source [pkgdcls.lisp], page 5, (file)

Nickname 1s

Use List

- split-sequence
- select
- num-utils.utilities
- num-utils.elementwise
- num-utils.statistics
- num-utils.arithmetic
- dfio
- data-frame
- array-operations/all
- alexandria-2
- common-lisp

Used By List

[ls-user], page 7,

Exported Definitions

- [*ls-version*], page 9, (special variable)
- [def], page 9, (macro)
- [savevar], page 9, (function)
- [undef], page 9, (function)
- [variables], page 9, (function)

Internal Definitions

- [*ask-on-redefine*], page 10, (special variable)
- [*release-name*], page 10, (special variable)
- [*variables*], page 10, (special variable)
- [save], page 10, (generic function)
- [setup-ls-translations], page 10, (function)

4.2 ls-user

User package for Lisp-Stat

Source [pkgdcls.lisp], page 5, (file)

Use List

- [lisp-stat], page 7,
- common-lisp

5 Definitions

Definitions are sorted by export status, category, package, and then by lexicographic order.

5.1 Exported definitions

5.1.1 Special variables

ls-version [Special Variable]

Package [lisp-stat], page 7,

Source [ls-init.lisp], page 5, (file)

5.1.2 Macros

def NAME VALUE &optional DOCUMENTATION

[Macro]

Args: (var form)

VAR is not evaluated and must be a symbol. Assigns the value of FORM to VAR and adds VAR to the list *VARIABLES* of def'ed variables. Returns VAR. If VAR is already bound and the global variable *ASK-ON-REDEFINE*

is not nil then you are asked if you want to redefine the variable.

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

5.1.3 Functions

savevar VARS FILE & optional SUFFIX

[Function]

Args: (vars-symbol-or-list file-name-root & optional suffix-string) NOTE: Ensure vars doesn't contain CLOS objects that don't have a save method. VARS is a symbol or a list of symbols. FILE-NAME-ROOT is a string (or a symbol whose print name is used) not ending in SUFFIX (defaults to ".lisp"). The VARS and their current values are written to the file FILE-NAME-ROOT.lisp in a form suitable for use with the load command.

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

undef V [Function]

Args: (v)

If V is the symbol of a defined variable the variable it is unbound and removed from the list of defined variables. If V is a list of variable names each is unbound and removed. Returns V.

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

variables () [Function]

Args:()

Returns a list of the names of all def'ed variables.

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

5.2 Internal definitions

5.2.1 Special variables

ask-on-redefine [Special Variable]

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

release-name [Special Variable]

Package [lisp-stat], page 7,

Source [ls-init.lisp], page 5, (file)

variables [Special Variable]

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

5.2.2 Functions

setup-ls-translations () [Function]

Package [lisp-stat], page 7,

Source [ls-init.lisp], page 5, (file)

5.2.3 Generic functions

save DATA [Generic Function]

Save the data.

Package [lisp-stat], page 7,

Source [variables.lisp], page 5, (file)

Appendix A Indexes

A.1 Concepts

File, Lisp, lisp-stat.asd	lisp-stat.asd lisp-stat/base lisp-stat/base/utilities.lisp lisp-stat/base/variables.lisp lisp-stat/docs lisp-stat/docs/doc-strings.lisp lisp-stat/license lisp-stat/ls-init.lisp lisp-stat/pkgdcls.lisp	
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A.3 Variables

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*ls-version*9	Special Variable, *ls-version*
release-name	Special Variable, *release-name*
variables	Special Variable, *variables*

A.4 Data types

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ls-user	System, lisp-stat