Core Namespace

for core version 0.0.2

Sequences

findl-if *fn sequence* **findr-if** *fn sequence* **foldl** fn *T sequence* **foldr** fn *T sequence* **length** sequence sv-list sequence **position** T sequence **positionr** T sequence sequence search left sequence search right sequence fold left sequence fold right length of sequence coerce vector to list sequence position left sequence position right

Exceptions

::break T exception assert fn T string **break** exception **error** T string

raise exception or return T enter break loop **check-type** type T string raise exception or return T raise exception **print-except** exception stream-designator escape print exception

break loop commands

warn T string print warning, return T

Macros

::macroexpand-1 T macro-function fn macroexpand

expand macro form once macro expander function expand macro completely

Special Forms

defconst symbol T **defmacro** symbol list . body **defun** symbol *list* . *body* **if** *T T'* [*T''*]

capture-env T

lambda list . body

define constant symbol define macro expander define function conditional. optional third argument capture lexical env, arg ignored lambda definition

Streams

::stream-designator Tload string bool bool

map designator to stream load file *verbose print*

Lists

::append list list' ::list T T' assoc T list copy list reverse list **dropl** *list fixnum* **dropr** *list* fixnum mapc fn list mapcar fn list mapl fn list maplist fn list

append two lists list from two objects association list lookup copy list reverse list drop from left drop from right apply fn to list cars new list from list cars apply fn to list cdrs list from list cdrs

Core

version version string evaluate form eval T funcall fn list apply list to fn identity Treturn T **1+** *fixnum* fixnum + 1**1-** fixnum fixnum - 1

Functions

::clone fn ... clone function create closure ::closure fn ::fn-arity fn function accessor ::fn-call fn list call function ::fn-call-closure fn list call function closure ::fn-form fn function accessor ::fn-frame-id fn function accessor ::fn-lambda fn function accessor ::fn-macrop fn function accessor function accessor ::fn-name fn ::fn-nregs fn function accessor ::fn-restp fn function accessor ::fn-unclosedp function accessor ::frame-descriptor frame descriptor ::frame-fn frame descriptor accessor ::frame-id frame descriptor fn id frame symbol bindings ::frame-symbols ::lambda-closure vector lambda descriptor accessor ::lambda-descriptor vector lambda descriptor accessor ::lambda-env vector lambda descriptor accessor ::lambda-macrop vector lambda descriptor accessor ::lambda-nregs vector lambda descriptor accessor ::lambda-regs vector lambda descriptor accessor

create closure

lambda descriptor accessor

lambda descriptor accessor

::lambda-rest vector

closure

::lambda-syms vector

Compiler

::compile-activation list list' compile activation form in environment ::compile-add-env fn list add function to environment ::compile-closure fn list compile closure in environment ::compile-lambda list list' compile lambda form in environment ::compile-lambda-body list list' compile lambda body in environment ::compile-macro form list compile macro in environment ::compile-symbol form list compile symbol in environment compile lambda definition ::core-lambda form list compile macro definition ::core-macro form list core:funcall this activation? ::must-funcall list

Quasiquote

compile form

resolve symbol in

::symbol-frame symbol list

environment

compile T

Reader

::read	reader implementation
::read-atom	reader implementation
::read-char-syntax	reader implementation
::read-comment	reader implementation
::read-consume-ws	reader implementation
::read-dispatch	reader implementation
::read-dispatch-table	reader implementation
::read-fixnum	reader implementation
::read-fixnump	reader implementation
::read-list	reader implementation
::read-list-eol	reader implementation
::read-macro	reader implementation
::read-macro-table	reader implementation
::read-namespaces	reader implementation
::read-quote	reader implementation
::read-resolve-symbol	
::read-sharp	reader implementation
::read-sharp-char	reader implementation
::read-sharp-commen	t reader implementation
::read-sharp-symbol	reader implementation
::read-sharp-table	reader implementation
::read-sharp-vector	reader implementation
::read-string	reader implementation
::read-symbol-externp	reader implementation
::read-symbol-keywo	
::read-symbol-name	reader implementation
::read-symbol-ns	reader implementation
::read-table	reader implementation
::reader-stream	reader implementation
read stream-designate	or eof read form from stream

Predicates

consp T	cons type
charp T	char type
doublep T	double float type
exceptionp T	exception type
fixnump T	fixnum type
floatp T	single float type
functionp T	function type
listp T	cons or nil
namespacep T	namespace type
null T	is nil
sequencep T	list or vector
streamp T	stream type
stringp [¯] T	string type
symbolp T	symbol type
vectorp T	vector type
zerop T	zero fixnum

Strings

schar vector fixnum string char | symbol char from string at index convert char or symbol name to string

string-append string string

string-length string string= string string' substr string start end append string and string' length of string strings eql substring