Core Library Referencee

core name space, version 0.0.10

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%lambda %exception %vector %closure	closure lambda exception vector lexical closure
bool	false if (), otherwise true
char	
cons	_
fixnum	fix
float	
function	fn
keyword	
ns	
null	
stream	-1
string	str
struct	
symbol	sym
vector	vec

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%format T string list		formatted output
load-file string	bool	load file through core reader
%make-keyword str	ring	make keyword
%quote T	cons	quote form
eval T	T	eval form
apply fn list	T	apply <i>fn</i> to <i>list</i>
$\mathbf{compile}\ T$	T	compile T in null
gensym	sym	environment create unique uninterned symbol
eql T T	bool	eql predicate

Special Forms

%defmacro sym list.	body	
	symbol	define macro
%lambda <i>list</i> . body	fn	define closure
%if T 'T	T	conditional
%if T 'T ''T	T	conditional

Fixnum

1 + fix	fix	increment fix
1- fix	fix	decrement fix
logand fix 'fix	fix	bitwise and
lognot fix	fix	bitwise negate
logor fix 'fix	fix	bitwise or
logxor fix 'fix	fix	bitwise xor

List

%dropl list fixnum	list	drop left
%dropr list fixnum	list	drop right
%findl-if fn list	T	element if applie
-		function returns
		an atom, ()
		otherwise
%foldl fn T list	list	left fold
%foldr fn T list	list	right fold
%mapc fn list	list	apply <i>fn</i> to <i>list</i>
		cars, return <i>list</i>
%mapcar fn list	list	new list from
		applying <i>fn</i> to
		list cars
%mapl fn list	list	apply <i>fn</i> to <i>list</i>
		cdrs, return <i>list</i>
%maplist <i>fn list</i>	list	new list from
		applying <i>fn</i> to
		<i>list</i> cdrs
%positionl-if <i>fn list</i>		index of element
	T	if <i>fn</i> returns an
		atom, otherwise
		0
%append list	list	append lists
reverse list	list	reverse <i>list</i>

String

%string-position ca	har str fix	index of char in string, nil if not
%substr string fix 'fix str		found substring of <i>string</i> from start
%string= str str'	bool	to end string predicate

Vector

	%make-vector list	vector	specialized vector from list
	%map-vector fn vecto		mapc for vectors
S	make-vector list	vector vector	general vector
	bit-vector-p vector vector-displaced-p v	bool ector	bit vector? a displaced
,		bool	vector?
ea	vector-length vector	fix	length of <i>vector</i>
S		T	element of vector
	vector-slice vector fix	:'fix vector	at index <i>fix</i> displaced vector from start for
	vector-type vector	symbol	length vector type
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Macro

define-symbol-macro sym T	define symbol
symbol	macro
macro-function sym list	extract macro
T	function with
	environment
macroexpand T list T	expand macro
•	expression in
	environment
macroexpand-1 T list	expand macro
T	expression once
	in environment

Predicate s				
minusp fix	bool	negative <i>fix</i>		
numberp T	bool	float or fixnum		
%uninternedp sym	bool	symbol interned		
charp T	bool	char		
consp T	bool	cons		
fixnump T	bool	fixnum		
floatp T	bool	float		
functionp T	bool	· ·		
keywordp T	bool	keyword		
$\operatorname{listp} T$	bool	cons or ()		
namespacep T	bool			
null T	bool			
streamp T	bool	stream		
stringp T	bool	char vector		
structp T	bool	struct		
symbolp T	bool	symbol		
vectorp T	bool	vector		
	_			
Туре S	ystem	. t		
%core-type-p T	bool	a core type?		
def-type symbol list	struct	create core type		
uci-type symbol list	sti uct	of name symbol		
type-of T	sym	core type symbol		
type-or r	sym	core type symbol		

Stream	n	xu
%peek-char stream	char	read char from stream, unread
%format T string list	T	formatted output to stream
read stream bool T	T	read from stream with EOF handling
write T bool stream	T	write escaped object to stream

Exception

%exceptionf stream string bool struct			
-	string	format exception	
%make-exception sym T string sym list			
	struct	create exception	
error T symbol list	string	error format	
exceptionp struct	bool	predicate	
raise T symbol list		raise exception	
raise-env T symbol li	ist	raise exception	
warn Tstring	T	warning	
with-exception $fn fn T$ catch exception			

Macro Definitions

and &rest	T	and of
cond &rest	T	cond switch
let <i>list</i> &rest	T	lexical bindings
let* list &rest	T	dependent list
		of bindings
or &rest	T	or of
progn &rest	T	evaluate rest list,
-		return last evaluation
unless T &rest	T	if T is (), (progn)
		otherwise ()
when T &rest	T	if T is an <i>atom</i> ,
		(progn)
		otherwise ()

Closures

append &rest format <i>T string</i> &re	list st T	append lists formatted output
funcall fn &rest	T	apply fn to
list &rest	list	list of
list* &rest	list	append
mapc fn &rest	list	mapc of
mapcar fn &rest	list	mapcar of
mapl fn &rest	list	mapl of
maplist fn &rest	list	maplist of

Modules

modules	list	module definitions
module-version str	ring	
	string	module version
module-namespac	e string	module
	ns	namespace
provide string list	T	define module
require string	bool	load module

Reader Syntax

	; # #	comment to end of line block comment	
	'form `form `() ,form ,@form	quoted form backquoted form backquoted list (proper lists) eval backquoted form eval-splice backquoted form	
	() () () ""	constant <i>list</i> empty <i>list</i> , prints as :nil dotted <i>list</i> string, char vector single escape in strings	
	<pre>#* #x #. #\. #(:type) #s(:type) #:symbol</pre>	bit vector hexadecimal fixnum read-time eval char vector struct uninterned symbol	
	"`,; #	terminating macro char non-terminating macro char	
	!\$%&*+ <>=?@[] :^_{}~/ AZaz 09	symbol constituents	
	0x09 #\tab 0x0a #\linefe 0x0c #\page 0x0d #\return 0x20 #\space		