Core Library Referencee

core name space, version 0.0.11

type identifiers		
%lambda %exception %vector %closure	closure lambda exception vector lexical closure	
bool char	false if (), otherwise true	
cons fixnum float	fix	
function keyword ns	fn key	

null stream string

struct

vector

symbol

Core		s
%format T string list load-file string	string bool	formatted output load file through core reader
%make-keyword string	7	make keyword
	keywor	d
eval T	T	eval form
apply fn list	T	apply <i>fn</i> to <i>list</i>
compile T	T	compile <i>T</i> in null environment
gensym	sym	create unique uninterned symbo
eql T T	bool	eql predicate

%append list reverse list

list

list

append lists reverse *list*

str

sym

vec

Spec	cial For	ms s	Str
%defmacro sym list .	body sym	define macro	%string-position
%lambda <i>list</i> . body %if <i>T 'T</i> %if <i>T 'T "T</i>	fn T T	define closure conditional conditional	%substr str fix 'fix
Fixn	ит	m	%string= str str'
1 + <i>fix</i>	fix	increment fix	Ve
1- fix logand fix 'fix lognot fix	fix fix fix	decrement <i>fix</i> bitwise and bitwise negate	%make-vector list
logor fix 'fix logxor fix 'fix	fix fix	bitwise or bitwise xor	%map-vector fn vemake-vector list
List		s	bit-vector-p vector
%dropl list fixnum	list	drop left	vector-displaced-
%dropr list fixnum %findl-if fn list	list T	drop right element if applied	vector-length vect vector-ref vector f
J		fn returns an atom, () otherwise	vector-slice vector
%foldl fn T list	list	left fold	
%foldr fn T list %mapc fn list	list list	right fold apply <i>fn</i> to <i>list</i>	vector-type vector
%mapcar fn list	list	cars, return <i>list</i> new list from applying <i>fn</i> to	Modefine-symbol-materials
%mapl fn list	list	list cars apply fn to list cdrs, return list	macro-function s
%maplist <i>fn list</i>	list	new list from applying <i>fn</i> to <i>list</i> cdrs	macroexpand T li
%positionl-if <i>fn list</i>	T	index of element if <i>fn</i> returns an <i>atom</i> , otherwise	macroexpand-1 T

s	String		s
	%string-position char s	str fix	index of char in string, nil if
	%substr str fix 'fix	str	not found substring of string from start
n	%string= str str'	bool	to end string predicate
	Vector		S
	%make-vector list	vec	specialized vector from <i>list</i>
	%map-vector fn vector	vec	mapc for vectors
	make-vector list	vec	general vector from list
S	bit-vector-p vector	bool	bit vector?
	vector-displaced-p vec	bool	a displaced vector?
	vector-length vector	fix	length of vector
	vector-ref vector fix	T	element of <i>vector</i> at index <i>fix</i>
	vector-slice vector fix 'fi	ix	displaced vector
		vec	from start for length
	vector-type vector	symbol	vector type
	Macro		s
	define-symbol-macro	sum T	define symbol
	•	symbol	macro
	macro-function sym lis	t ()	extract macro
		T	function with
	1 77 1		null environment
	macroexpand T list ()	T	expand macro
			expression in null environment
	macroexpand-1 T list ())	expand macro
	macrocapuna 11 list ()	T	expression once
		-	in multi anxinament

in null environment

Pred	icates		s Exc
minusp fix	bool	negative value	%exceptionf stream
$\mathbf{numberp}\ T$	bool	float or fixnum	•
%uninternedp sym	bool	symbol interned	%make-exception s
charp T	bool	char	-
$\mathbf{consp}\ T$	bool	cons	error T symbol list
fixnump T	bool	fixnum	exceptionp struct
floatp \overline{T}	bool	float	raise T sym str
functionp T	bool	function	raise-env T sym str
$\mathbf{keywordp} T$	bool	keyword	warn Tstring
listp T	bool	cons or ()	with-exception fn f
$\overline{\text{namespacep }T}$	bool	namespace	1 3 3
$\mathbf{null}\ T$	bool	:nil or ()	Mac
streamp T	bool	stream	
stringp T	bool	char vector	and &rest
structp T	bool	struct	cond &rest
symbolp T	bool	symbol	let list &rest
vectorp T	bool	vector	let* list &rest
Туре	System		t or &rest
			progn &rest
%core-type-p T	bool	a core type?	. 0
def-type symbol list	struct	create core type	
3 2 0		of name <i>symbol</i>	unless T &rest
type-of T	sym	core type symbol	
- <u>-</u>	-	• •	when T &rest

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

Exception

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

Macro Definitions

and &rest	T	logical and of
cond &rest	T	cond switch
let list &rest	T	lexical bindings
let* list &rest	T	dependent list
		of bindings
or &rest	T	logical or of
progn &rest	T	evaluate rest list,
• 0		return final
		evaluation
unless T &rest	T	if T is (), (progn)
		otherwise ()
when T &rest	T	if T is an atom,
		(progn)
		otherwise ()

Closures

append &rest	list	append lists
format Tstring &rest	T	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 string		
	string	module version
module-namespace st	ring	module
	ns	namespace
provide string list	T	define module
require string bool	load mo	dule

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	