Core Library Referencee

core name space, version o.o.7

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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	
string	
struct	
symbol	sym
vector	vec

Core	

string	version string
string	formatted output
bool	load file through core reader
ing	make keyword
cons	quote form
T	eval form
T	apply <i>fn</i> to <i>list</i>
T	compile T in null environment
sym	create unique uninterned symbo
bool	eql predicate
	string bool ing cons T T T

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 + <i>fix</i>	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 <i>list fixnum</i>	list	drop left
	%dropr <i>list fixnum</i>	list	drop right
	%findl-if <i>fn</i> list	T	element if applied
	-		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
ıt	%mapl fn list	list	apply <i>fn</i> to <i>list</i>
1			cdrs, return <i>list</i>
.1	%maplist fn list	list	new list from
			applying <i>fn</i> to
			list cdrs
	%positionl-if <i>fn list</i>		index of element
		T	if <i>fn</i> returns an
1			atom, otherwise
LI			0
	%append list	list	append lists
bol	reverse list	list	reverse <i>list</i>
DOI			

String

%string-position char string	index of char in
fix	string, nil if not
_	found
%substr <i>string fix 'fix string</i>	substring of
	string from star
	to end
%string= string string'	string predicate
bool	0.1

Vector

	%make-vector <i>list</i>	vector	specialized vector from list
	%map-vector fn vecto	r	mapc for vectors
S	make-vector list	vector vector	general vector from list
	bit-vector-p vector	bool	bit vector?
	vector-displaced-p v	ector	a displaced
ed		bool	vector?
S	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	: 'fix	displaced vector
	v	vector	from start for
			length
	vector-type vector	symbol	vector type

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		Exception n			Modules s				
minusp fix numberp T %uninternedp sym charp T	bool bool bool	negative fix float or fixnum symbol interned char	%exceptionf stream %make-exception s	stri ym T	ing format exception	modules provide strin require strin	g	list T bool	module definitions define module load module
$\operatorname{\mathbf{consp}} T$	bool	cons	error T symbol list		ing error format		Read	ler Syr	ntax x
fixnump T	bool	fixnum	exceptionp struct	boo					C1:
floatp T	bool	float	raise T symbol list	000	raise exception	; # #		nt to end of omment	Time
functionp T	bool	fntion	raise-env T symbol l	ist	raise exception	" "	DIOCK CC	Jiiiiiciit	
keywordp T	bool	keyword	warn Tstring	T	warning	'form	quoted		
listp T	bool	cons or ()	with-exception fn fr	T	catch exception	`form `()		oted form oted list (p	roper lists)
namespacep T	bool	namespace	1 00		-	,form		ckquoted fo	
null T	bool	:nil or ()	Macro	Defi	initions s	,@form		lice backqu	
streamp T	bool bool	stream char vector	and &rest	T	and of	()	constan	t liet	
$ \begin{array}{c} \mathbf{stringp} \ T \\ \mathbf{structp} \ T \end{array} $	bool	struct	cond &rest	T	cond switch	()		<i>ist</i> , prints a	as:nil
structp T symbolp T	bool	symbol	let list &rest	$\stackrel{\scriptstyle 1}{T}$	lexical bindings	()	dotted l		
vectorp T	bool	vector	let* list &rest	T	dependent list	"" 1		<i>char vector</i> scape in str	
	0001		tot tiot arost	•	of bindings	ı	siligie e	scape iii su	rings
Type S	ystem	t	or &rest	T	or of	#* 	bit vecto		
0/ T	h 1		progn &rest	T	evaluate rest list,	#x		cimal <i>fixnu</i>	m
%core-type-p T def-type symbol list	bool	a core type?			return last evaluation	#. #\.	read-tir	ne evai	
dei-type symbol list	struct	create core type of name <i>symbol</i>	unless T &rest	T	if T is (), (progn)	#(:type)	vector		
type-of T	sym	core type symbol	•	_	otherwise ()	#s(:type)	struct		7
typep T typespec	bool	does T conform to	when T &rest	T	if T is an atom,	#:symbol	uninter	ned <i>symbo</i>	l
typep I typespee	0001	typespec?	•		(progn) otherwise ()	"`,; #		nting macro minating n	
Stream		xu	Closur	es	S	!\$%&*+ <>=?@[]	symbol	constituen	ts
%peek-char stream	char	read char from stream, unread	append &rest format <i>T string</i> &res	list †	append lists formatted output	:^_{}~/ AZaz			
%format T string list	T	formatted output to stream	v	T	1	09	1.0		
read stream bool T	T	read from stream with EOF handling	fnall fn &rest list &rest list* &rest	T list list	append	0x09 #\tab 0x0a #\linefe 0x0c #\page 0x0d #\return		oace	
write T bool stream	T	write escaped object to stream	vector &rest	vec	tor vector of	0x20 #\space			