Core Library Referencee

core name space, version o.o.9

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

Core

%format T string list	string	formatted output	
load-file string	bool	load file through core reader	%n
%make-keyword str	ing	make keyword	%n
%quote T	cons	quote form	/011
eval T	T	eval form	
apply fn list	T	apply <i>fn</i> to <i>list</i>	%р
compile T	T	compile T in null	νop
gensym	sym	environment create unique uninterned symbol	9/ a:
eql T T	bool	eql predicate	rev

Special Forms

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

Fixnum		m
1+ fix 1- fix	fix fix	increment <i>fix</i> decrement <i>fix</i>
logand fix 'fix	fix	bitwise and
lognot fix logor fix 'fix	fix fix	bitwise negate bitwise or
logxor fix 'fix	fix	bitwise xor

drop left

index of element

if *fn* returns an atom, otherwise

%dropl list fixnum	list
A . T . T . T . T . T . T . T . T . T .	

%dropr list fixnum	list	drop right	,
%findl-if fn list	T	element if applied	l
J		function returns	,
		an atom, ()	٦
		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 fn to list	(
1 V		cdrs, return <i>list</i>	
%maplist fn list	list	new list from]
		applying <i>fn</i> to	
		list cdrs	

%positionl-if fn list	•
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%append list reverse list	list list	append lists reverse <i>list</i>
reverse ust	เเรเ	reverse tist

String

%string-position char string fix	index of char in string, nil if not
%substr string fix 'fix string	found substring of string from start
%string= string string' bool	to end string predicate

Vector

%make-vector <i>list</i>	vector	specialized
		vector from list
% man waatan fa waat	024	
%map-vector fn vect		mapc for vectors
	vector	
make-vector list	vector	general vector
		from list
bit-vector-p vector	bool	bit vector?
vector-displaced-p	vector	a displaced
	bool	vector?
vector-length vector	fix	length of vector
vector-ref vector fix	T	element of vector
_		at index <i>fix</i>
vector-slice vector fix	x 'fix	displaced vector
J	vector	from start for
		length
vector-type vector	symbol	vector type

Macro

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

Predic	cate	s	Exce	ption
minusp fix numberp T %uninternedp sym charp T consp T fixnump T floatp T functionp T keywordp T listp T	bool bool bool bool bool bool bool bool	negative fix float or fixnum symbol interned char cons fixnum float fntion keyword cons or ()	%exceptionf stream %make-exception error T symbol list exceptionp struct raise T symbol list raise-env T symbol warn T string with-exception fn	stri sym T stri boo boo ! list T
namespacep T null T streamp T stringp T structp T symbolp T vectorp T	bool bool bool bool bool bool	namespace :nil or () stream char vector struct symbol vector	and &rest cond &rest let list &rest let* list &rest	
Type S %core-type-p T def-type symbol list type-of T typep T typespec	bool struct sym bool	a core type? create core type of name <i>symbol</i> core type symbol does <i>T</i> conform to typespec?	or &rest progn &rest unless T &rest when T &rest	T T T
Strear	n	xu	Closu	res

read char from stream, unread

formatted output to stream

read from stream

write escaped object to stream

with EOF handling

%peek-char stream char

%format *T string list T*

write T bool stream T

read stream bool T

%exceptionf stream	strina l	hool struct
vocaception stream		format exception
%make-exception s	ym T sti	ring 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 i	list	raise exception
warn Tstring	T	warning
with-exception fn fr	T cate	ch 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,	
- 0		return last evaluation	
unless T &rest	T	if T is (), (progn)	
		otherwise ()	
when T &rest	T	if T is an atom,	
		(progn)	
		otherwise ()	

Ctoour		J
append &rest	list	append lists
format T string &res	st	formatted output
· ·	T	•
funcall fn &rest	T	apply <i>fn to</i>
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 module definitions list module-version string *string* module version module-namespace string module namespace

ns **provide** string list Tdefine module require string boolload module

modules

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 list empty list, prints as :nil dotted list 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	eed