Core Library Referencee

core name space, version o.o.7

type i	denti	fiers

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

Core

**make-keyword string make keyword **quote T cons quote form eval T T eval form apply fn list T apply fn to list compile T T compile T in null environment **maplist fn to apply fn to form apply fn list compile T in null environment **apple dist	+version+	strıng	version string	
load-file $string$ $bool$ load file through core reader%maplist fn is core reader%make-keyword stringmake keyword%quote T consquote formeval T T eval form%positionl-itapply fn list T apply fn to listcompile T T compile T in null environmentgensym sym create unique%append list	%format <i>T</i> string list	string	formatted output	%mapl fn list
%quote T consquote formeval T T eval form%positionl-itapply fn list T apply fn to $list$ compile T T compile T in null environment%append $list$ gensym sym create unique%append $list$	load-file string		load file through	%maplist fn
eval T T eval form*positioni-name of the position of the positio	%make-keyword str	ing	make keyword	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	%quote T	cons	quote form	0/1:
compile T T compile T in null environment sym create unique %append list	eval T	T	eval form	%positionI-1
compile T T compile T in null environment sym create unique %append list	apply fn list	T	apply <i>fn</i> to <i>list</i>	
gensym sym create unique %append list	compile T	T	compile T in null	
	gensym	sym	environment create unique	

Special Forms

%defmacro sym list . body						
	symbol	define macro				
%lambda $list$. 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 bitwise and fix lognot fix fix bitwise negate logor fix 'fix bitwise or fix

fix

bitwise xor

logxor fix 'fix

List		Ś	
%dropl list fixnum %dropr list fixnum	list list	drop left drop right	
%findl-if fn 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>	

list	apply <i>fn</i> to <i>list</i>
	cars, return <i>list</i>
list	new list from
	applying <i>fn</i> to
	list cars
list	apply <i>fn</i> to <i>list</i>
	cdrs, return <i>list</i>
list	new list from
	applying <i>fn</i> to
	<i>list</i> cdrs
	index of element
T	if <i>fn</i> returns an
	atom, otherwise
	0
list	append lists
	list list

list

reverse *list*

String

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

Vector

%make-vector list	vector	specialized vector from list
%map-vector fn vect	or	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
d vector-ref vector fix	T	element of vector
2		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

define symbol
macro
extract macro
function with
environment
expand macro
expression in
environment
expand macro
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	
stringp T structp T	bool	struct	cond &rest	T	cond switch	()		<i>ist</i> , prints a	as:nil
structp T symbolp T	bool	symbol	let list &rest	$\stackrel{1}{T}$	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			