```
16-May-90 12:27:02 {DSK}<usr>local>lde>lispcore>sources>CLISP.;2
 File created:
  changes to:
                (VARS CLISPCOMS)
                26-Nov-86 12:32:58 {DSK}<usr>local>lde>lispcore>sources>CLISP.;1
previous date:
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                 XCCS
 Copyright (c) 1982, 1983, 1984, 1985, 1986, 1990 by Venue & Xerox Corporation. All rights reserved.
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;; The following program was created in 1982 but has not been published
;; within the meaning of the copyright law, is furnished under license,
;; and may not be used, copied and/or disclosed except in accordance
;; with the terms of said license.
(RPAGO CLISPCOMS
                                                                           : DWIM stuff
        [(COMS
                [INITVARS (NOFIXFNSLST0)
                        (NOFIXVARSLST0)
                        (NOSPELLFLG)
                        (LPARKEY 9)
                        (RPARKEY 0)
                        NIL NIL))
                        NIL NIL]
                (USERMACROS FIX8 FIX9)
                (ADDVARS (DWIMUSERFORMS)
                        (LAMBDASPLST LAMBDA NLAMBDA)
                        (OKREEVALST AND OR PROGN SAVESETQ CAR CDR ADD1 SUB1 CONS LIST EQ EQUAL PRINT PRIN1 APPEND
                                NEQ NOT NULL)
                        (NOFIXFNSLST)
                        (NOFIXVARSLST)
                        (GLOBALVARS)
                        (LOCALVARS)
                        (SPECVARS)
                        (NLAMA)
                        (NLAML)
                        (LAMA)
                        (LAMS))
                (P (MOVD? 'NILL 'FREEVARS))
                (PROP FILEDEF BREAKDOWN CALLS CLISPRECORD SETUPHASHARRAY MAKEMATCH)
                (VARS (DWIMIFYFLG 'EVAL)
                       (COMPILEUSERFN 'COMPILEUSERFN)
                       (CLISPTRANFLG 'CLISP%)
                       (DWIMESSGAG))
                (INITVARS (DWIMCHECK#ARGSFLG T)
                        (DWIMCHECKPROGLABELSFLG T)
                        (%#CLISPARRAY 250)
                        (RECORDHASHFLG T)
                        (CLISPRETRANFLG))
                (ADDVARS (DWIMEQUIVLST))
                (USERMACROS DW !DW CLISP%: NOCLISP PPT))
         (COMS (* CLISP props)
(PROP CLISPTYPE %')
                [E (SETQQ CLISPCHARS
                                           _ %: %' ~ +- ~= < > @ ! ← ↑))
                            (^ * / + - =
                    (CLISPDEC '(STANDARD MIXED]
                [VARS (CLISPFLG T) (CLISPCHARS '(^ * / + - = _ %: %' ~ +- ~= < > @ ! \leftarrow ^]
                (INITVARS (CLISPHELPFLG T)
                        (TREATASCLISPFLG)
                        (CLISPINFIXSPLST)
                        (CLISPCHARRAY (MAKEBITTABLE CLISPCHARS))
                        [LEFT.ARROWS.BITTABLE (MAKEBITTABLE ' (_ \leftarrow]
                        (LEFT.ARROW '_)
                        (CLISPISWORDSPLST)
                        (CLISPLASTSUB (CONS))
                        (CHECKCARATOMFLG)
                        (CLISPARITHOPLST '(+ - * / +- LT GT lt gt GEQ LEQ GE LE geq leq ge le))
                        (CLISPARITHCLASSLST '(INTEGER FIXED MIXED FLOATING))
                        (DWIMINMACROSFLG NIL))
                (IFPROP (CLISPTYPE LISPFN UNARYOP CLISPCLASS CLISPCLASSDEF CLISPNEG CLISPBRACKET) 
 \uparrow \ ^* \ / \ + \ - = \ _ \leftarrow \ ^*: \ ^*' \ ^* \ + \ ^- = < > \ @ \ !)
                (VARS DECLWORDS)
                (IFPROP (CLISPTYPE LISPFN UNARYOP CLISPINFIX CLISPCLASS CLISPCLASSDEF CLISPNEG BROADSCOPE)
                        (PROGN DECLWORDS))
                (IFPROP (CLISPTYPE LISPFN UNARYOP CLISPINFIX CLISPCLASS CLISPCLASSDEF CLISPNEG BROADSCOPE)
                        LT lt GT gt LE le GE ge LEQ leq GEQ geq EQ NEQ EQP EQUAL EQUALS NOT AND OR and or NOR nor MEMBER SETQ IPLUS IMINUS IDIFFERENCE ITIMES IQUOTIENT ILESSP IGREATERP FPLUS FMINUS FDIFFERENCE FTIMES FQUOTIENT FGTP PLUS MINUS DIFFERENCE TIMES QUOTIENT LESSP GREATERP EXPT
```

```
-> => )
               (PROP SETFN ELT SETA)
               (OPTIMIZERS CLISP% ))
         (PROP CLISPWORD AND OR and or ! !! CLISP clisp MATCH match)
               (VARS CLISPIFWORDSPLST)
               (INITVARS (CLISPIFTRANFLG T))
               (PROP CLISPWORD IF THEN ELSE ELSEIF if then else elseif))
        (COMS (* I.S.OPR)
               (VARS (CLISPI.S.GAG))
               (PROP CLISPWORD * INITISOPRS)
(IFPROP I.S.OPR * (PROGN INITISOPRS))
               [ADDVARS * (LIST (CONS 'I.S.OPRLST INITISOPRS)
                                 (CONS 'CLISPFORWORDSPLST (SUBSET INITISOPRS 'U-CASEP]
               [VARS (CLISPDUMMYFORVARS '($$TEM0 $$TEM1 $$TEM2 $$TEM3 $$TEM4 $$TEM5 $$TEM6]
               (ADDVARS * (LIST (CONS 'SYSLOCALVARS CLISPDUMMYFORVARS) (CONS 'INVISIBLEVARS CLISPDUMMYFORVARS)))
               (ADDVARS (SYSLOCALVARS $$VAL $$TEM $$LST1 $$LST2 $$LST3 $$LST4 $$LST5 $$LST6 $$END $$EXTREME)
                      (INVISIBLEVARS $$VAL $$END $$TEM $$LST1 $$LST2 $$LST3 $$LST4 $$LST5 $$LST6 $$EXTREME))
               (FILEPKGCOMS T.S.OPRS)
               (FNS DUMPI.S.OPRS GETDEF.I.S.OPR))
        (COMS
               (* forDuration)
               (ADDVARS (DURATIONCLISPWORDS (TIMERUNITS timerUnits timerunits)
                                (USINGBOX usingBox usingbox)
                                (USINGTIMER usingTimer usingtimer)
                                (FORDURATION forDuration forduration DURING during)
                                (RESOURCENAME resourceName resourcename)
                                (UNTILDATE untilDate untildate)))
               (IFPROP (CLISPWORD \DURATIONTRAN)
                      (APPLY 'APPEND DURATIONCLISPWORDS))
               (RESOURCES \ForDurationOfBox))
        (COMS
              ;; Currently there are four possible entries for the INFO property: EVAL, BINDS, LABELS, PROGN, or a list containg any or all of
               ;; these.
              ;; EVAL is used to indicate that an nlambda evaluates its arguments. EVAL affects DWIMIFY and CLISPIFY: neither will touch an
               ;; nlambda that does not have this property.
              ;; BINDS tells clispify and dwimify that CADR of the form is a list of variables being bound, a la prog.
              ;; PROGN says that only the last top level expression is being used for value. This affects the way OR's and AND's are clispified, for
               ;; example.
               ;; Finally, LABELS indicates that top level atoms in this expression are not being evaluated. This tells clispify not to create atoms out
               ;; of lists at the top level. LABELS also implies that none of the top level expressions are being used for value
               ;; For example, FOR has info property just BINDS, (EVAL is unnecssary since FOR is not a function and its dwimifying and clispifying
               ;; affected by its clispword property), whereas PROG has (BINDS EVAL LABELS), and LAMBDA has (EVAL BINDS PROGN)
               (PROP INFO PROG PROG* RESETVARS RESETBUFS RESETLST ADV-PROG ADV-SETQ AND ARG COND ERSETQ NLSETQ OR
                     PROG1 PROG2 PROGN RESETFORM RESETSAVE RESETVAR RPAQ RPTQ FRPTQ SAVESETQ SETN SETQ UNDONLSETQ
                     XNLSETQ SETARG LET LET* RETURN))
         (PROP FILETYPE CLISP)
         (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA DUMPI.S.OPRS)
                                                                                  (NLAML)
                                                                                  (LAMA))
;; DWIM stuff
(RPAQ? NOFIXFNSLST0 )
(RPAQ? NOFIXVARSLST0 )
(RPAO? NOSPELLFLG )
(RPAQ? LPARKEY 9)
(RPAQ? RPARKEY 0)
(ADDTOVAR EDITMACROS
           (FIX9 (X N)
                 (BIND (E (SETQ %#1 (EDITFPAT 'X))
                          T)
                       (IF (NOT (ATOM (%##)))
                            (1))
                       (COMS (SPLIT89 RPARKEY N))
                       (I F RPARKEY T)
                          [SETQ %#2 (ADD1 (LENGTH (CAR L]
                       (E
                       !O MARK (LPQ [IF (OR (NULL %#1)
                                              (NOT (EDIT4E %#1 (%## 1]
                                     ΠÞ
                                        (SETQ %#3 (LENGTH (CAR L)))
                                     (E
                                      (I RI 1 (MINUS %#2))
```

(RPAQ? CLISPRETRANFLG)

(ADDTOVAR DWIMEQUIVLST)

(ADDTOVAR EDITMACROS

(DW NIL (BIND (E (PROGN (SETQ \$#1 (\$##))

(AND (CDR L)

(%## !0 (E (SETQ %#2 L)

```
(AND [SETQ %#3 (DWIMIFY %#1 T (OR %#2 '(NIL]
                                         EDITCHANGES
                                         (RPLACA (CDR EDITCHANGES)
                            T)
                         (IF (NLISTP %#1)
                             ((I %: %#3)
                              (IF (LISTP %#3)
                                  (1)
                                  NIL))
                             NIL)))
          (PPT NIL (RESETVAR PRETTYTRANFLG T PP))
          (!DW NIL (RESETVAR CLISPRETRANFLG T DW))
          (NOCLISP NIL (NOCLISP TTY%:))
          (NOCLISP COMS (RESETVAR CLISPTRANFLG NIL . COMS))
          (CLISP%: NIL (BIND (E (COND ((SETQ %#1 (AND CLISPARRAY (GETHASH (%##)
                                                                            CLISPARRAY)))
                                        (SETQQ COM CLISP%:)
(EDITE %#1))
(T (PRIN1 '"not translated.
                                                   " T)))
                                 T))))
(ADDTOVAR EDITCOMSA PPT DW !DW CLISP%:)
          (* * CLISP props)
(PUTPROPS %' CLISPTYPE 15)
(RPAQQ CLISPFLG T)
(RPAQQ CLISPCHARS (^* / + - = _ %: %' ^* +- ^* < > @ ! \leftarrow ^{\uparrow}))
(RPAQ? CLISPHELPFLG T)
(RPAQ? TREATASCLISPFLG )
(RPAQ? CLISPINFIXSPLST )
(RPAQ? CLISPCHARRAY (MAKEBITTABLE CLISPCHARS))
(RPAQ? LEFT.ARROWS.BITTABLE (MAKEBITTABLE ′ (_ ←)))
(RPAQ? LEFT.ARROW ')
(RPAQ? CLISPISWORDSPLST )
(RPAQ? CLISPLASTSUB (CONS))
(RPAQ? CHECKCARATOMFLG )
(RPAQ? CLISPARITHOPLST ' (+ - * / +- LT GT lt gt GEQ LEQ GE LE geq leq ge le))
(RPAQ? CLISPARITHCLASSLST '(INTEGER FIXED MIXED FLOATING))
(RPAQ? DWIMINMACROSFLG NIL)
(PUTPROPS ↑ CLISPTYPE 6)
(PUTPROPS ^ CLISPTYPE 6)
(PUTPROPS * CLISPTYPE 4)
(PUTPROPS / CLISPTYPE 4)
(PUTPROPS + CLISPTYPE 2)
(PUTPROPS - CLISPTYPE 7)
(PUTPROPS = CLISPTYPE -20)
(PUTPROPS _ CLISPTYPE (8 . -12))
(PUTPROPS ← CLISPTYPE (8 . -12))
(PUTPROPS %: CLISPTYPE (14 . 13))
(PUTPROPS %' CLISPTYPE 15)
(PUTPROPS ~ CLISPTYPE 7)
(PUTPROPS +- CLISPTYPE 2)
(PUTPROPS < CLISPTYPE BRACKET)
```

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{MEDLEY} < sources > CLISP.;1
                                                                                                             Page 5
(PUTPROPS > CLISPTYPE BRACKET)
(PUTPROPS ↑ LISPFN EXPT)
(PUTPROPS ^ LISPFN EXPT)
(PUTPROPS * LISPFN TIMES)
(PUTPROPS / LISPFN QUOTIENT)
(PUTPROPS + LISPFN PLUS)
(PUTPROPS - LISPFN MINUS)
(PUTPROPS = LISPFN EQ)
(PUTPROPS LISPFN SETQ)
(PUTPROPS \leftarrow LISPFN SETQ)
(PUTPROPS %' LISPFN QUOTE)
(PUTPROPS ~ LISPFN NOT)
(PUTPROPS +- LISPFN DIFFERENCE)
(PUTPROPS - UNARYOP T)
(PUTPROPS %' UNARYOP T)
(PUTPROPS ~ UNARYOP T)
(PUTPROPS < UNARYOP T)
(PUTPROPS > UNARYOP T)
(PUTPROPS * CLISPCLASS *)
(PUTPROPS / CLISPCLASS /)
(PUTPROPS + CLISPCLASS +)
(PUTPROPS - CLISPCLASS -)
(PUTPROPS +- CLISPCLASS +-)
(PUTPROPS * CLISPCLASSDEF (ARITH ITIMES FTIMES TIMES))
(PUTPROPS / CLISPCLASSDEF (ARITH IQUOTIENT FQUOTIENT QUOTIENT))
(PUTPROPS + CLISPCLASSDEF (ARITH IPLUS FPLUS PLUS))
(PUTPROPS - CLISPCLASSDEF (ARITH IMINUS FMINUS MINUS))
(PUTPROPS +- CLISPCLASSDEF (ARITH IDIFFERENCE FDIFFERENCE DIFFERENCE))
(PUTPROPS = CLISPNEG ~=)
(PUTPROPS < CLISPBRACKET (< > SEPARATOR ! DWIMIFY CLISPANGLEBRACKETS CLISPIFY SHRIEKIFY))
(PUTPROPS > CLISPBRACKET (< > SEPARATOR ! DWIMIFY CLISPANGLEBRACKETS CLISPIFY SHRIEKIFY))
(RPAQQ DECLWORDS
       (FLOATING FAST FFETCHFIELD FETCHFIELD REPLACEFIELD FREPLACEFIELD / REPLACEFIELD / LISTPUT / LISTPUT / MAPCON
              MAPCONC /NCONC /NCONC1 /PUT /PUTASSOC /PUTHASH /PUTPROP /RPLACA /RPLACD /RPLNODE /RPLNODE2 /SETA
              ASSOC CLISPIFY FASSOC FIXED FLAST FMEMB FNTH FRPLACA FRPLACD FRPLNODE FRPLNODE2 INTEGER LAST
              LISTPUT LISTPUT1 MAPCON MAPCONC MEMB MIXED NCONC NCONC1 NTH PUT PUTASSOC PUTHASH PUTPROP RPLACA
             RPLACD RPLNODE RPLNODE2 SETA STANDARD UNDOABLE))
(PUTPROPS FMEMB CLISPTYPE -20)
(PUTPROPS MEMB CLISPTYPE -20)
(PUTPROPS FETCHFIELD LISPFN FETCHFIELD)
(PUTPROPS REPLACEFIELD LISPFN REPLACEFIELD)
(PUTPROPS FREPLACEFIELD LISPFN FREPLACEFIELD)
(PUTPROPS ASSOC LISPFN ASSOC)
(PUTPROPS LAST LISPFN LAST)
(PUTPROPS LISTPUT LISPFN LISTPUT)
```

(PUTPROPS LISTPUT1 LISPFN LISTPUT1)

- (PUTPROPS MAPCON LISPFN MAPCON)
- (PUTPROPS MAPCONC LISPFN MAPCONC)
- (PUTPROPS **MEMB LISPFN** MEMB)
- (PUTPROPS NCONC LISPFN NCONC)
- (PUTPROPS NCONC1 LISPFN NCONC1)
- (PUTPROPS NTH LISPFN NTH)
- (PUTPROPS PUT LISPFN PUT)
- (PUTPROPS **PUTASSOC LISPFN** PUTASSOC)
- (PUTPROPS PUTHASH LISPFN PUTHASH)
- (PUTPROPS **PUTPROP LISPFN** PUTPROP)
- (PUTPROPS RPLACA LISPFN RPLACA)
- (PUTPROPS RPLACD LISPFN RPLACD)
- (PUTPROPS RPLNODE LISPFN RPLNODE)
- (PUTPROPS RPLNODE2 LISPFN RPLNODE2)
- (PUTPROPS **SETA LISPFN** SETA)
- (PUTPROPS FLOATING CLISPCLASS (ARITH . 2))
- (PUTPROPS FAST CLISPCLASS (ACCESS . 3))
- (PUTPROPS FFETCHFIELD CLISPCLASS FETCHFIELD)
- (PUTPROPS FETCHFIELD CLISPCLASS FETCHFIELD)
- (PUTPROPS REPLACEFIELD CLISPCLASS REPLACEFIELD)
- (PUTPROPS FREPLACEFIELD CLISPCLASS REPLACEFIELD)
- (PUTPROPS /REPLACEFIELD CLISPCLASS REPLACEFIELD)
- (PUTPROPS /LISTPUT CLISPCLASS LISTPUT)
- (PUTPROPS /MAPCON CLISPCLASS MAPCON)
- (PUTPROPS /MAPCONC CLISPCLASS MAPCONC)
- (PUTPROPS /NCONC CLISPCLASS NCONC)
- (PUTPROPS /NCONC1 CLISPCLASS NCONC1)
- (PUTPROPS /PUT CLISPCLASS PUT)
- (PUTPROPS /PUTASSOC CLISPCLASS PUTASSOC)
- (PUTPROPS /PUTHASH CLISPCLASS PUTHASH)
- (PUTPROPS /PUTPROP CLISPCLASS PUTPROP)
- (PUTPROPS /RPLACA CLISPCLASS RPLACA)
- (PUTPROPS /RPLACD CLISPCLASS RPLACD)
- (PUTPROPS /RPLNODE CLISPCLASS RPLNODE)
- (PUTPROPS /RPLNODE2 CLISPCLASS RPLNODE2)
- (PUTPROPS /SETA CLISPCLASS SETA)
- (PUTPROPS ASSOC CLISPCLASS ASSOC)
- (PUTPROPS FASSOC CLISPCLASS ASSOC)
- (PUTPROPS FIXED CLISPCLASS (ARITH . 1))
- (PUTPROPS FLAST CLISPCLASS LAST)
- (PUTPROPS FMEMB CLISPCLASS MEMB)
- (PUTPROPS FNTH CLISPCLASS NTH)
- (PUTPROPS FRPLACA CLISPCLASS RPLACA)
- (PUTPROPS FRPLACD CLISPCLASS RPLACD)

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(PUTPROPS FRPLNODE CLISPCLASS RPLNODE)
(PUTPROPS FRPLNODE2 CLISPCLASS RPLNODE2)
(PUTPROPS INTEGER CLISPCLASS (ARITH . 1))
(PUTPROPS LAST CLISPCLASS LAST)
(PUTPROPS LISTPUT CLISPCLASS LISTPUT)
(PUTPROPS LISTPUT1 CLISPCLASS LISTPUT1)
(PUTPROPS MAPCON CLISPCLASS MAPCON)
(PUTPROPS MAPCONC CLISPCLASS MAPCONC)
(PUTPROPS MEMB CLISPCLASS MEMB)
(PUTPROPS MIXED CLISPCLASS (ARITH . 3))
(PUTPROPS NCONC CLISPCLASS NCONC)
(PUTPROPS NCONC1 CLISPCLASS NCONC1)
(PUTPROPS NTH CLISPCLASS NTH)
(PUTPROPS PUT CLISPCLASS PUT)
(PUTPROPS PUTASSOC CLISPCLASS PUTASSOC)
(PUTPROPS PUTHASH CLISPCLASS PUTHASH)
(PUTPROPS PUTPROP CLISPCLASS PUTPROP)
(PUTPROPS RPLACA CLISPCLASS RPLACA)
(PUTPROPS RPLACD CLISPCLASS RPLACD)
(PUTPROPS RPLNODE CLISPCLASS RPLNODE)
(PUTPROPS RPLNODE2 CLISPCLASS RPLNODE2)
(PUTPROPS SETA CLISPCLASS SETA)
(PUTPROPS STANDARD CLISPCLASS (ACCESS . 1))
(PUTPROPS UNDOABLE CLISPCLASS (ACCESS . 2))
(PUTPROPS FETCHFIELD CLISPCLASSDEF (ACCESS FETCHFIELD NIL FFETCHFIELD))
(PUTPROPS REPLACEFIELD CLISPCLASSDEF (ACCESS REPLACEFIELD /REPLACEFIELD FREPLACEFIELD))
(PUTPROPS ASSOC CLISPCLASSDEF (ACCESS ASSOC NIL FASSOC))
(PUTPROPS LAST CLISPCLASSDEF (ACCESS LAST NIL FLAST))
(PUTPROPS LISTPUT CLISPCLASSDEF (ACCESS LISTPUT /LISTPUT))
(PUTPROPS LISTPUT1 CLISPCLASSDEF (ACCESS LISTPUT1 /LISTPUT1))
(PUTPROPS MAPCON CLISPCLASSDEF (ACCESS MAPCON /MAPCON))
(PUTPROPS MAPCONC CLISPCLASSDEF (ACCESS MAPCONC /MAPCONC))
(PUTPROPS MEMB CLISPCLASSDEF (ACCESS MEMB NIL FMEMB))
(PUTPROPS NCONC CLISPCLASSDEF (ACCESS NCONC /NCONC))
(PUTPROPS NCONC1 CLISPCLASSDEF (ACCESS NCONC1 /NCONC1))
(PUTPROPS NTH CLISPCLASSDEF (ACCESS NTH NIL FNTH))
(PUTPROPS PUT CLISPCLASSDEF (ACCESS PUT /PUT))
(PUTPROPS PUTASSOC CLISPCLASSDEF (ACCESS PUTASSOC /PUTASSOC))
(PUTPROPS PUTHASH CLISPCLASSDEF (ACCESS PUTHASH /PUTHASH))
(PUTPROPS PUTPROP CLISPCLASSDEF (ACCESS PUTPROP /PUTPROP))
(PUTPROPS RPLACA CLISPCLASSDEF (ACCESS RPLACA /RPLACA FRPLACA))
(PUTPROPS RPLACD CLISPCLASSDEF (ACCESS RPLACD / RPLACD FRPLACD))
(PUTPROPS RPLNODE CLISPCLASSDEF (ACCESS RPLNODE /RPLNODE FRPLNODE))
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(PUTPROPS RPLNODE2 CLISPCLASSDEF (ACCESS RPLNODE2 /RPLNODE2 FRPLNODE2))

(PUTPROPS **SETA CLISPCLASSDEF** (ACCESS SETA /SETA))

(PUTPROPS FMEMB CLISPNEG ~FMEMB)

(PUTPROPS MEMB CLISPNEG ~MEMB)

(PUTPROPS FMEMB BROADSCOPE T)

(PUTPROPS MEMB BROADSCOPE T)

(PUTPROPS LT CLISPTYPE -20)

(PUTPROPS It CLISPTYPE -20)

(PUTPROPS GT CLISPTYPE -20)

(PUTPROPS gt CLISPTYPE -20)

(PUTPROPS LE CLISPTYPE -20)

(PUTPROPS le CLISPTYPE -20)

(PUTPROPS GE CLISPTYPE -20)

(PUTPROPS **ge CLISPTYPE** -20)

(PUTPROPS LEQ CLISPTYPE -20)

(PUTPROPS leq CLISPTYPE -20)

(PUTPROPS GEQ CLISPTYPE -20)

(PUTPROPS **geq CLISPTYPE** -20)

(PUTPROPS **EQ CLISPTYPE** -20)

(PUTPROPS **NEQ CLISPTYPE** -20)

(PUTPROPS **EQP CLISPTYPE** -20)

(PUTPROPS **EQUAL CLISPTYPE** -20)

(PUTPROPS EQUALS CLISPTYPE -20)

(PUTPROPS AND CLISPTYPE -25)

(PUTPROPS **OR CLISPTYPE** -26)

(PUTPROPS and CLISPTYPE -25)

(PUTPROPS or CLISPTYPE -26)

(PUTPROPS NOR CLISPTYPE -25)

(PUTPROPS nor CLISPTYPE -25)

(PUTPROPS MEMBER CLISPTYPE -20)

(PUTPROPS ILESSP CLISPTYPE -20)

(PUTPROPS IGREATERP CLISPTYPE -20)

(PUTPROPS FGTP CLISPTYPE -20)

(PUTPROPS MINUS CLISPTYPE 8)

(PUTPROPS LESSP CLISPTYPE -20)

(PUTPROPS GREATERP CLISPTYPE -20)

(PUTPROPS -> CLISPTYPE 7)

(PUTPROPS => CLISPTYPE 7)

(PUTPROPS LT LISPFN LESSP)

(PUTPROPS It LISPFN LESSP)

(PUTPROPS **GT LISPFN** GREATERP)

(PUTPROPS **gt LISPFN** GREATERP)

(PUTPROPS LE LISPFN LEQ)

(PUTPROPS **le LISPFN** LEQ)

- (PUTPROPS GE LISPFN GEQ)
- (PUTPROPS ge LISPFN GEQ)
- (PUTPROPS **LEQ LISPFN** LEQ)
- (PUTPROPS **leq LISPFN** LEQ)
- (PUTPROPS GEQ LISPFN GEQ)
- (PUTPROPS geq LISPFN GEQ)
- (PUTPROPS **EQUALS LISPFN** EQUAL)
- (PUTPROPS AND LISPFN AND)
- (PUTPROPS OR LISPFN OR)
- (PUTPROPS and LISPFN AND)
- (PUTPROPS or LISPFN OR)
- (PUTPROPS NOR LISPFN AND)
- (PUTPROPS nor LISPFN AND)
- (PUTPROPS NOT UNARYOP T)
- (PUTPROPS MINUS UNARYOP T)
- (PUTPROPS **LEQ CLISPINFIX** le)
- (PUTPROPS GEQ CLISPINFIX ge)
- (PUTPROPS **EQ CLISPINFIX** =)
- (PUTPROPS NOT CLISPINFIX ~)
- (PUTPROPS AND CLISPINFIX and)
- (PUTPROPS **OR CLISPINFIX** or)
- (PUTPROPS **SETQ CLISPINFIX** _)
- (PUTPROPS IPLUS CLISPINFIX +)
- (PUTPROPS IMINUS CLISPINFIX -)
- (PUTPROPS IDIFFERENCE CLISPINFIX +-)
- (PUTPROPS ITIMES CLISPINFIX *)
- (PUTPROPS IQUOTIENT CLISPINFIX /)
- (PUTPROPS ILESSP CLISPINFIX 1t)
- (PUTPROPS **IGREATERP CLISPINFIX** gt)
- (PUTPROPS PLUS CLISPINFIX +)
- (PUTPROPS MINUS CLISPINFIX -)
- (PUTPROPS DIFFERENCE CLISPINFIX +-)
- (PUTPROPS TIMES CLISPINFIX *)
- (PUTPROPS QUOTIENT CLISPINFIX /)
- (PUTPROPS LESSP CLISPINFIX 1t)
- (PUTPROPS GREATERP CLISPINFIX gt)
- (PUTPROPS **EXPT CLISPINFIX** ^)
- (PUTPROPS LT CLISPCLASS LT)
- (PUTPROPS It CLISPCLASS LT)
- (PUTPROPS GT CLISPCLASS GT)
- (PUTPROPS gt CLISPCLASS GT)
- (PUTPROPS LE CLISPCLASS LEQ)
- (PUTPROPS **le CLISPCLASS** LEO)

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{MEDLEY} < sources > CLISP.;1
(PUTPROPS GE CLISPCLASS GEQ)
(PUTPROPS ge CLISPCLASS GEQ)
(PUTPROPS LEQ CLISPCLASS LEQ)
(PUTPROPS leq CLISPCLASS LEQ)
(PUTPROPS GEQ CLISPCLASS GEQ)
(PUTPROPS geq CLISPCLASS GEQ)
(PUTPROPS IPLUS CLISPCLASS +)
(PUTPROPS IMINUS CLISPCLASS -)
(PUTPROPS IDIFFERENCE CLISPCLASS +-)
(PUTPROPS ITIMES CLISPCLASS *)
(PUTPROPS IQUOTIENT CLISPCLASS /)
(PUTPROPS ILESSP CLISPCLASS LT)
(PUTPROPS IGREATERP CLISPCLASS GT)
(PUTPROPS FPLUS CLISPCLASS +)
(PUTPROPS FMINUS CLISPCLASS -)
(PUTPROPS FDIFFERENCE CLISPCLASS +-)
(PUTPROPS FTIMES CLISPCLASS *)
(PUTPROPS FQUOTIENT CLISPCLASS /)
(PUTPROPS FGTP CLISPCLASS GT)
(PUTPROPS PLUS CLISPCLASS +)
(PUTPROPS MINUS CLISPCLASS -)
(PUTPROPS DIFFERENCE CLISPCLASS +-)
(PUTPROPS TIMES CLISPCLASS *)
(PUTPROPS QUOTIENT CLISPCLASS /)
(PUTPROPS LESSP CLISPCLASS LT)
(PUTPROPS GREATERP CLISPCLASS GT)
(PUTPROPS LT CLISPCLASSDEF (ARITH ILESSP LESSP))
(PUTPROPS GT CLISPCLASSDEF (ARITH IGREATERP FGTP GREATERP))
(PUTPROPS LE CLISPCLASSDEF (ARITH ILEQ LEQ))
(PUTPROPS GE CLISPCLASSDEF (ARITH IGEQ GEQ GEQ))
(PUTPROPS LEQ CLISPCLASSDEF (ARITH ILEQ LEQ))
(PUTPROPS GEQ CLISPCLASSDEF (ARITH IGEQ GEQ GEQ))
(PUTPROPS LT CLISPNEG GEQ)
(PUTPROPS GT CLISPNEG LEQ)
(PUTPROPS EQUALS CLISPNEG ~EQUAL)
(PUTPROPS MEMBER CLISPNEG ~MEMBER)
(PUTPROPS LT BROADSCOPE T)
(PUTPROPS It BROADSCOPE T)
(PUTPROPS GT BROADSCOPE T)
(PUTPROPS qt BROADSCOPE T)
(PUTPROPS LE BROADSCOPE T)
(PUTPROPS le BROADSCOPE T)
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(PUTPROPS GE BROADSCOPE T) (PUTPROPS ge BROADSCOPE T)

```
(PUTPROPS LEQ BROADSCOPE T)
(PUTPROPS leq BROADSCOPE T)
(PUTPROPS GEQ BROADSCOPE T)
(PUTPROPS geq BROADSCOPE T)
(PUTPROPS EQ BROADSCOPE T)
(PUTPROPS NEQ BROADSCOPE T)
(PUTPROPS EQP BROADSCOPE T)
(PUTPROPS EQUAL BROADSCOPE T)
(PUTPROPS EQUALS BROADSCOPE T)
(PUTPROPS NOT BROADSCOPE T)
(PUTPROPS AND BROADSCOPE T)
(PUTPROPS OR BROADSCOPE T)
(PUTPROPS and BROADSCOPE T)
(PUTPROPS or BROADSCOPE T)
(PUTPROPS NOR BROADSCOPE T)
(PUTPROPS nor BROADSCOPE T)
(PUTPROPS MEMBER BROADSCOPE T)
(PUTPROPS ILESSP BROADSCOPE T)
(PUTPROPS IGREATERP BROADSCOPE T)
(PUTPROPS FGTP BROADSCOPE T)
(PUTPROPS LESSP BROADSCOPE T)
(PUTPROPS GREATERP BROADSCOPE T)
(PUTPROPS ELT SETFN SETA)
(PUTPROPS SETA SETFN (ELT))
(DEFOPTIMIZER CLISP% (X &REST Y)
(PUTPROPS AND CLISPWORD T)
(PUTPROPS OR CLISPWORD T)
(PUTPROPS and CLISPWORD T)
(PUTPROPS or CLISPWORD T)
(PUTPROPS ! CLISPWORD T)
(PUTPROPS !! CLISPWORD T)
(PUTPROPS CLISP CLISPWORD (PREFIXFN . clisp))
(PUTPROPS clisp CLISPWORD (PREFIXFN . clisp))
(PUTPROPS MATCH CLISPWORD (MATCHWORD . match))
(PUTPROPS match CLISPWORD (MATCHWORD . match))
         (* * IF)
(RPAQQ CLISPIFWORDSPLST (THEN ELSE ELSEIF IF))
(RPAO? CLISPIFTRANFLG T)
(PUTPROPS IF CLISPWORD (IFWORD . if))
(PUTPROPS THEN CLISPWORD (IFWORD . then))
(PUTPROPS ELSE CLISPWORD (IFWORD . else))
(PUTPROPS ELSEIF CLISPWORD (IFWORD . elseif))
```

(ALWAYS AS BIND BY COLLECT COUNT DECLARE DECLARE%: DO EACHTIME FCOLLECT FINALLY FIND FIRST FOR FROM IN INSIDE ISTHERE JOIN LARGEST NEVER OLD ON ORIGINAL REPEATUNTIL REPEATWHILE SMALLEST SUCHTHAT SUM THEREIS THRU TO UNLESS UNTIL WHEN WHERE WHILE always as bind by collect count declare declare%: do eachtime fcollect finally find first for from in inside isthere join largest never old on original repeatuntil repeatwhile smallest suchthat sum thereis thru to unless until when where while))

(RPAOO CLISPI.S.GAG NIL) (RPAQQ INITISOPRS (PUTPROPS ALWAYS CLISPWORD (FORWORD . always)) (PUTPROPS AS CLISPWORD (FORWORD . as)) (PUTPROPS **BIND CLISPWORD** (FORWORD . bind)) (PUTPROPS BY CLISPWORD (FORWORD . by)) (PUTPROPS COLLECT CLISPWORD (FORWORD . collect)) (PUTPROPS **COUNT CLISPWORD** (FORWORD . count)) (PUTPROPS **DECLARE CLISPWORD** (FORWORD . declare)) (PUTPROPS **DECLARE%: CLISPWORD** (FORWORD declare%: DECLARE)) (PUTPROPS DO CLISPWORD (FORWORD . do)) (PUTPROPS **EACHTIME CLISPWORD** (FORWORD . eachtime)) (PUTPROPS FCOLLECT CLISPWORD (FORWORD . fcollect)) (PUTPROPS FINALLY CLISPWORD (FORWORD . finally)) (PUTPROPS FIND CLISPWORD (FORWORD find FOR)) (PUTPROPS FIRST CLISPWORD (FORWORD . first)) (PUTPROPS FOR CLISPWORD (FORWORD . for)) (PUTPROPS FROM CLISPWORD (FORWORD . from)) (PUTPROPS IN CLISPWORD (FORWORD . in)) (PUTPROPS INSIDE CLISPWORD (FORWORD . inside)) (PUTPROPS **ISTHERE CLISPWORD** (FORWORD isthere THEREIS)) (PUTPROPS JOIN CLISPWORD (FORWORD . join)) (PUTPROPS LARGEST CLISPWORD (FORWORD . largest)) (PUTPROPS NEVER CLISPWORD (FORWORD . never)) (PUTPROPS OLD CLISPWORD (FORWORD . old)) (PUTPROPS ON CLISPWORD (FORWORD . on)) (PUTPROPS ORIGINAL CLISPWORD (FORWORD . original)) (PUTPROPS REPEATUNTIL CLISPWORD (FORWORD . repeatuntil)) (PUTPROPS REPEATWHILE CLISPWORD (FORWORD . repeatwhile)) (PUTPROPS **SMALLEST CLISPWORD** (FORWORD . smallest)) (PUTPROPS **SUCHTHAT CLISPWORD** (FORWORD suchthat THEREIS)) (PUTPROPS **SUM CLISPWORD** (FORWORD . sum)) (PUTPROPS THEREIS CLISPWORD (FORWORD . thereis)) (PUTPROPS THRU CLISPWORD (FORWORD thru TO)) (PUTPROPS TO CLISPWORD (FORWORD . to))

```
(PUTPROPS UNLESS CLISPWORD (FORWORD . unless))
(PUTPROPS UNTIL CLISPWORD (FORWORD . until))
(PUTPROPS WHEN CLISPWORD (FORWORD . when))
(PUTPROPS WHERE CLISPWORD (FORWORD where WHEN))
(PUTPROPS WHILE CLISPWORD (FORWORD . while))
(PUTPROPS always CLISPWORD (FORWORD . always))
(PUTPROPS as CLISPWORD (FORWORD . as))
(PUTPROPS bind CLISPWORD (FORWORD . bind))
(PUTPROPS by CLISPWORD (FORWORD . by))
(PUTPROPS collect CLISPWORD (FORWORD . collect))
(PUTPROPS count CLISPWORD (FORWORD . count))
(PUTPROPS declare CLISPWORD (FORWORD . declare))
(PUTPROPS declare%: CLISPWORD (FORWORD declare%: DECLARE))
(PUTPROPS do CLISPWORD (FORWORD . do))
(PUTPROPS eachtime CLISPWORD (FORWORD . eachtime))
(PUTPROPS fcollect CLISPWORD (FORWORD . fcollect))
(PUTPROPS finally CLISPWORD (FORWORD . finally))
(PUTPROPS find CLISPWORD (FORWORD find FOR))
(PUTPROPS first CLISPWORD (FORWORD . first))
(PUTPROPS for CLISPWORD (FORWORD . for))
(PUTPROPS from CLISPWORD (FORWORD . from))
(PUTPROPS in CLISPWORD (FORWORD . in))
(PUTPROPS inside CLISPWORD (FORWORD . inside))
(PUTPROPS isthere CLISPWORD (FORWORD isthere thereis))
(PUTPROPS join CLISPWORD (FORWORD . join))
(PUTPROPS largest CLISPWORD (FORWORD . largest))
(PUTPROPS never CLISPWORD (FORWORD . never))
(PUTPROPS old CLISPWORD (FORWORD . old))
(PUTPROPS on CLISPWORD (FORWORD . on))
(PUTPROPS original CLISPWORD (FORWORD . original))
(PUTPROPS repeatuntil CLISPWORD (FORWORD . repeatuntil))
(PUTPROPS repeatwhile CLISPWORD (FORWORD . repeatwhile))
(PUTPROPS smallest CLISPWORD (FORWORD . smallest))
(PUTPROPS suchthat CLISPWORD (FORWORD suchthat THEREIS))
(PUTPROPS sum CLISPWORD (FORWORD . sum))
(PUTPROPS thereis CLISPWORD (FORWORD . thereis))
(PUTPROPS thru CLISPWORD (FORWORD thru TO))
(PUTPROPS to CLISPWORD (FORWORD . to))
(PUTPROPS unless CLISPWORD (FORWORD . unless))
(PUTPROPS until CLISPWORD (FORWORD . until))
(PUTPROPS when CLISPWORD (FORWORD . when))
(PUTPROPS where CLISPWORD (FORWORD where WHEN))
(PUTPROPS while CLISPWORD (FORWORD . while))
(PUTPROPS always I.S.OPR ((COND ((NULL BODY)
```

(ADDTOVAR SYSLOCALVARS \$\$VAL \$\$TEM \$\$LST1 \$\$LST2 \$\$LST3 \$\$LST4 \$\$LST5 \$\$LST6 \$\$END \$\$EXTREME)

(ADDTOVAR INVISIBLEVARS \$\$VAL \$\$END \$\$TEM \$\$LST1 \$\$LST2 \$\$LST3 \$\$LST4 \$\$LST5 \$\$LST6 \$\$EXTREME)

[PUTDEF 'I.S.OPRS 'FILEPKGCOMS '((COM MACRO [X (DECLARE%: EVAL@COMPILE (P * (DUMPI.S.OPRS . X]

```
CONTENTS NILL)
                                    (TYPE DESCRIPTION "i.s. operators" GETDEF GETDEF.I.S.OPR WHENCHANGED (
                                                                                                           CLEARCLISPARRAY
(DEFINEQ
(DUMPI.S.OPRS
                                                                       (* lmm "14-Aug-84 18:34")
(* Dump I.S.OPRS definitions. -
  [NLAMBDA X
                                                                       redefined to dump out same case as given)
    (for Y in X collect (OR (GETDEF.I.S.OPR Y)
                           (PROG1 NIL
                                (LISPXPRINT (LIST 'I.S.OPR Y 'not 'defined)
                                       T T))1)
(GETDEF.I.S.OPR
                                                                       (* lmm "14-Aug-84 18:34")
  [LAMBDA (Y)
    (PROG (TEM BODY EVALFLG)
           (RETURN (CONS 'I.S.OPR
                          (CONS (KWOTE Y)
                                 (OR [AND [SETQ TEM (LISTP (GETPROP Y 'CLISPWORD]
                                           (EQ (CAR TEM)
'FORWORD)
                                           (COND
                                              [[AND (NLISTP (CDR TEM))
                                                     (SETQ BODY (GETPROP (CDR TEM)
                                                                        'I.S.OPR]
                                               (COND
                                                  [(LISTP BODY)
                                                    (CONS [KWOTE (COND
                                                                     ((EQ (CAR (LISTP (CAR BODY)))
'=)
                                                                       (SETQ EVALFLG T)
                                                                      (CDAR BODY))
                                                                     (T (CAR BODY]
                                                          (COND
                                                             ((EQ (CADR BODY)
                                                              (LIST (KWOTE (CDDR BODY))
                                                                     T))
                                                             [(CDR BODY)
                                                               (COND
                                                                  (EVALFLG (SHOULDNT)))
            somehow there was an = in front of the i.s.type and not in front of the others.
           this shouldnt happen)
                                                              (LIST (KWOTE (CDR BODY]
                                                              (EVALFLG '(NIL T)
                                                  (T (LIST (KWOTE BODY)
                                              ((AND (LISTP (CDR TEM))
(CADDR TEM))
                                               (LIST (KWOTE (CADDR TEM]
                                     (RETURN1)
)
           (* * forDuration)
(ADDTOVAR DURATIONCLISPWORDS (TIMERUNITS timerUnits timerunits)
                                  (USINGBOX usingBox usingbox)
                                  (USINGTIMER usingTimer usingtimer)
                                  (FORDURATION forDuration forduration DURING during)
                                  (RESOURCENAME resourceName resourcename)
                                  (UNTILDATE untilDate untildate))
(PUTPROPS TIMERUNITS CLISPWORD (FORWORD . timerUnits))
(PUTPROPS timerUnits CLISPWORD (FORWORD . timerUnits))
(PUTPROPS timerunits CLISPWORD (FORWORD . timerUnits))
(PUTPROPS USINGBOX CLISPWORD (FORWORD . usingBox))
(PUTPROPS usingBox CLISPWORD (FORWORD . usingBox))
(PUTPROPS usingbox CLISPWORD (FORWORD . usingBox))
(PUTPROPS USINGTIMER CLISPWORD (FORWORD . usingTimer))
(PUTPROPS usingTimer CLISPWORD (FORWORD . usingTimer))
(PUTPROPS usingtimer CLISPWORD (FORWORD . usingTimer))
```

(PUTPROPS NLSETQ INFO EVAL)

(PUTPROPS PROG1 INFO EVAL)

(PUTPROPS PROG2 INFO EVAL)

(PUTPROPS **PROGN INFO** (EVAL PROGN))

```
(PUTPROPS RESETFORM INFO EVAL)
(PUTPROPS RESETSAVE INFO EVAL)
(PUTPROPS RESETVAR INFO EVAL)
(PUTPROPS RPAQ INFO EVAL)
(PUTPROPS RPTQ INFO EVAL)
(PUTPROPS FRPTQ INFO EVAL)
(PUTPROPS SAVESETQ INFO EVAL)
(PUTPROPS SETN INFO EVAL)
(PUTPROPS SETQ INFO EVAL)
(PUTPROPS UNDONLSETQ INFO EVAL)
(PUTPROPS XNLSETQ INFO EVAL)
(PUTPROPS SETARG INFO EVAL)
(PUTPROPS LET INFO (BINDS EVAL))
(PUTPROPS LET* INFO (BINDS EVAL))
(PUTPROPS RETURN INFO EVAL)
(PUTPROPS CLISP FILETYPE CL:COMPILE-FILE)
(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
(ADDTOVAR NLAMA DUMPI.S.OPRS)
(ADDTOVAR NLAML )
(ADDTOVAR LAMA )
(PUTPROPS CLISP COPYRIGHT ("Venue & Xerox Corporation" T 1982 1983 1984 1985 1986 1990))
```

FUNCTION INDEX

PROPERTY INDEX DECLARE12 FRPLACD6 SETN17 !!11 declare13 SETO9,17 DECLARE%:12 declare%:134,5 SETUPHASHARRAY3 *4,5 FRPTQ17 SMALLEST12 NEVER12 never13,14 NLSETQ16 NOR8,9,11 FTIMES10 GE8,9,10 ge8,9,10 DIFFERENCE9,10 smallest13,14 STANDARD7 DO12 SUCHTHAT12 suchthat13 do13,14 GEQ8,9,10,11 DURING16 nor8,9,11 geq8,9,10,11 GREATERP ..8,9,10,11 during16 EACHTIME12 NOT9,11 THEN11 eachtime13 GT8,9,10 OLD12 ELSE11 gt8,9,10 IDIFFERENCE9,10 old13,14 /NCONC 6 /NCONC1 6 ON12 else12 IF11 thereis13,14 or8,9,11 THRU12 OR8,9,11,16 ELT11 ILESSP8,9,10,11 IMINUS9,10 /PUTHASH6 EQ8,9,11 ORIGINAL12 /PUTPROP6 /REPLACEFIELD6 EQP8,11 original13 timerunits15 EQUAL8,11 PLUS9,10 IN12 timerUnits15,16 /RPLACA6 EQUALS8,9,10,11 in13 TIMES9,10 /RPLACD6 ERSETQ16 INSIDE12 TO12 inside13,14 /RPLNODE6 EXPT9 to13 /RPLNODE26 FASSOC6 UNDOABLE7 INTEGER7 PROG216 /SETA6 IPLUS9,10 PROGN16 UNDONLSETQ17 FAST6 FCOLLECT12 fcollect13,14 IQUOTIENT9,10 PUT6,7 UNLESS13 <4,5 ISTHERE12 PUTASSOC6,7 FDIFFERENCE10 PUTHASH6,7 UNTIL13 =>8 FETCHFIELD5,6,7 ITIMES9,10 PUTPROP6,7 FFETCHFIELD6 JOIN12 QUOTIENT9,10 UNTILDATE16 FGTP8,10,11 REPEATUNTIL12 untilDate16 ADV-PROG16 ADV-SETQ16 repeatuntil13 untildate16 finally13 largest13,14 REPEATWHILE12 ALWAYS12 USINGBOX15 repeatwhile13 always13 usingbox15 LE8,9,10 REPLACEFIELD ..5,6,7 usingBox15,16 USINGTIMER15 AND8,9,11,16 RESETBUFS16 RESETFORM17 FIRST12 le8,9,10 usingtimer15 usingTimer15,16 LEQ8,9,10,11 ARG16 AS12 leq8,9,10,11 RESETLST16 RESETSAVE17 FLAST6 LESSP8,9,10,11 FLOATING6 RESETVAR17 RESETVARS16 FMEMB5,6,8 LISTPUT5,7 LISTPUT15,7 LT8,9,10 RESOURCENAME16 bind13 FMINUS10 where13 BREAKDOWN3 resourcename16 FNTH6 WHILE13 resourceName16 BY12 FOR12 XNLSETQ17 lt8,9,10 MAKEMATCH3 RETURN17 by13 for13 FORDURATION16 RPAQ17 MAPCONC6,7 forduration16 RPLACA6,7 CLISP11,17 CLISPRECORD3 4 , 5 forDuration16 MATCH11 FPLUS10 ←4, COLLECT12 FQUOTIENT10 match11 RPLNODE26,7,8 collect13,14 FREPLACEFIELD ...5,6 MEMB5,6,7,8 MEMBER8,10,11 COND16 FROM12 COUNT12 from13 MINUS8,9,10 SETA6,7,8,11 SETARG17 FRPLACA6 count13,14 **VARIABLE INDEX** 2

%#CLISPARRAY	CLISPINFIXSPLST4	DWIMINMACROSFLG4	NOFIXENSLSTU
CHECKCARATOMFLG4	CLISPISWORDSPLST4	DWIMUSERFORMS3	NOFIXVARSLST3
CLISPARITHCLASSLST4	CLISPLASTSUB4	EDITCOMSA4	NOFIXVARSLSTO2
CLISPARITHOPLST4	CLISPRETRANFLG3	EDITMACROS2,3	NOSPELLFLG2
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CLISPCHARS4	COMPILEUSERFN3	INITISOPRS12	RECORDHASHFLG3
CLISPDUMMYFORVARS14	DECLWORDS5	INVISIBLEVARS14	RPARKEY2
CLISPFLG4	DURATIONCLISPWORDS15	LAMBDASPLST3	SYSLOCALVARS14
CLISPFORWORDSPLST14		LAMS3	TREATASCLISPFLG4
CLISPHELPFLG4	DWIMCHECKPROGLABELSFLG3	LEFT.ARROW4	WTFIXCHCONLST2
CLISPI.S.GAG12	DWIMEQUIVLST3	LEFT.ARROWS.BITTABLE4	WTFIXCHCONLST12
CLISPIFTRANFLG11	DWIMESSGAG3	LPARKEY2	
CLISPIFWORDSPLST11	DWIMIFYFLG3	NOFIXFNSLST3	

CLISP%11