```
14-Jun-90 20:54:42 {DSK}<usr>local>lde>lispcore>internal>library>CLMAIL.;2
 File created:
  changes to:
                  (VARS CLMAILCOMS)
                  (FNS CLMAILSHOW CLMAILDISPLAY CLMAILDISPLAYMSG CLMAILSEARCH CLMAILMSGHASH CLMAILMERGE CLMAILREDOMENU CLMAILHEADSTRING CLMAILFIRST CLMAILLAST CLMAILFWD CLMAILBKWD CLMAILQUIT MAKECMLHEADHASH MAKECMLMAILHASH UPDATEHASHFILES CMLMAIL1 CMLMAIL2 CMLMAIL3 CMLMAIL4 CMLMAIL5
                        CMLMAIL6 CMLMAIL7 CMLMAIL8 CMLMAIL9 CMLMAIL0)
previous date:
                  23-Jan-87 16:37:36 {DSK}<usr>local>lde>lispcore>internal>library>CLMAIL.;1
  Read Table:
                  INTERLISP
    Package:
                  INTERLISP
        Format:
                   XCCS
"Copyright (c) 1986, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAOO CLMAILCOMS
         ((FNS CLMAILSHOW CLMAILDISPLAY CLMAILDISPLAYMSG CLMAILSEARCH CLMAILMSGHASH CLMAILMERGE CLMAILREDOMENU
                CLMAILHEADSTRING CLMAILFIRST CLMAILLAST CLMAILFWD CLMAILBKWD CLMAILQUIT MAKECMLHEADHASH
                MAKECMLMAILHASH UPDATEHASHFILES CMLMAIL1 CMLMAIL2 CMLMAIL3 CMLMAIL4 CMLMAIL5 CMLMAIL6 CMLMAIL7
          CMLMAIL8 CMLMAIL9 CMLMAIL0)

(VARS CLM.MENUFORMAT (* "Format list for Free Menu")

CLM.MAILHASHNAME CLM.HEADHASHNAME (* "Names of hashfiles")

CLM.MAILDATANAME CLM.HEADDATANAME (* "Names of unhashed data files")
          CLM.VAXCDIR CLM.MSGDIR (* "Names of magic directories"))
(GLOBALVARS CLM.HEADITEMS (* "A pointer to the first message menu item in CLM.MENUFORMAT for easy
                                               referencing")
                   CLM.ABOVEITEM CLM.BELOWITEM CLM.WORD (* "Points at Above:, Below:, and THEWORD fields")
                   CLM.MSGHASH CLM.HEADHASH (* "Streams for message and head line hash files")
                   CLM.MENUWINDOW
                    (* "The menu window")
                   CLM.HEADARRAY CLM.HEAD# (* "Array of head lines for menu and an index into it"))))
(DEFINEQ
(CLMAILSHOW
                                                                                   (* "Pavel" "29-May-86 15:52")
             (* * "First, open the the hash files")
     (SETQ CLM.MSGHASH (OPENHASHFILE CLM.MAILHASHNAME 'INPUT))
     (SETO CLM. HEADHASH (OPENHASHFILE CLM. HEADHASHNAME 'INPUT))
             (* * "Then create the menu window")
     (SETQ CLM.MENUWINDOW (FREEMENU CLM.MENUFORMAT))
             (* * "Set various pointers into the FM.ITEMS list so we can find the first message menu item easily")
     [LET [(WP (WINDOWPROP CLM.MENUWINDOW 'FM.ITEMS]
           [SETQ CLM.WORD (for X in WP thereis (EQ 'THEWORD (FM.ITEMPROP X 'ID] [SETQ CLM.HEADITEMS (for X on WP thereis (EQ 'LINE1 (FM.ITEMPROP (CAR X)
                                                                                     'ID1
           [SETQ CLM.ABOVEITEM (for X in WP thereis (EQ 'ABOVEFIELD (FM.ITEMPROP X 'ID] (SETQ CLM.BELOWITEM (for X in WP thereis (EQ 'BELOWFIELD (FM.ITEMPROP X 'ID]
             (* * "Finally let user move the menu window (which will open it as a nice side effect)")
     (MOVEW CLM.MENUWINDOW (GETBOXPOSITION (WINDOWPROP CLM.MENUWINDOW 'WIDTH)
                                           (WINDOWPROP CLM.MENUWINDOW 'HEIGHT)
                                          100 100 NIL "Specify the position of the menu window"))
     (OPENW CLM.MENUWINDOW])
(CLMAILDISPLAY
                                                                                   (* jrb%: "29-Oct-86 12:39")
   [LAMBDA (SLOT#)
     (LET ((MSG# (+ SLOT# CLM.HEAD#)))
           (CL:UNLESS (> MSG# (ARRAYSIZE CLM.HEADARRAY))
(CLMAILDISPLAYMSG (CAR (ELT CLM.HEADARRAY MSG#))))])
(CLMAILDISPLAYMSG
   [LAMBDA (MSG)
                                                                                   (* jrb%: "29-Oct-86 12:39")
     (if (NUMBERP MSG)
          then (TEDIT (MKATOM (CONCAT CLM.MSGDIR MSG)))
       else (ERROR "This isn't a CL message number" MSG])
(CLMAILSEARCH
   [LAMBDA NIL
                                                                                   (* jrb%: "22-Aug-86 14:24")
     (LET [(MSGS (CLMAILMERGE (FM.ITEMPROP CLM.WORD 'LABEL]
            (if MSGS
                then (SETO CLM.HEADARRAY (ARRAY (LENGTH MSGS)
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'POINTER))
                   (for I from 1 to (Arraysize clm.headarray) do (Seta clm.headarray i (pop msgs)))
                   (SETQ CLM.HEAD# 1)
                   (CLMAILLAST)
           else (FM.CHANGELABEL CLM.WORD "Sorry, that word isn't indexed" CLM.MENUWINDOW])
(CLMAILMSGHASH
  [LAMBDA (WORD)
                                                                      (* jrb%: "29-Oct-86 12:38")
    (if (CL:SYMBOLP WORD)
        then (GETHASHFILE WORD CLM.MSGHASH)
      else (CL:ERROR "~S is not a word" WORD])
(CLMAILMERGE
  [LAMBDA (STRING)
(LET ((STRINGSTREAM (CL:MAKE-STRING-INPUT-STREAM STRING))
                                                                      ; Edited 23-Jan-87 16:37 by irb:
          TERM TERMLIST (RESULT 'FIRSTTIME))
         (while (not (eofp stringstream)) do (cl:typecase (setq term (read stringstream))
                                                     (CL:SYMBOL (SETQ TERMLIST (CLMAILMSGHASH TERM)))
                                                     (LIST
                                                        (SETO TERMLIST NIL)
                                                        (for TR in TERM do (SETQ TERMLIST (UNION (CLMAILMSGHASH
                                                                                                    TR)
                                                                                                   TERMLIST))))
                                                (T (CL:ERROR "~S is not a word or list of words" TERM))) (SETQ RESULT (if (EQ RESULT 'FIRSTTIME)
                                                                  then TERMLIST
                                                                else (INTERSECTION TERMLIST RESULT)))
                                                (if (NULL RESULT)
                                                    then (RETURN NIL)))
         RESULT])
(CLMAILREDOMENU
  [LAMBDA NIL
                                                                      (* jrb%: "17-May-86 00:21")
    (FM.CHANGELABEL CLM.ABOVEITEM (SUB1 CLM.HEAD#)
           CLM.MENUWINDOW)
    (FM.CHANGELABEL CLM.BELOWITEM (MAX 0 (IDIFFERENCE (ARRAYSIZE CLM.HEADARRAY)
                                                    (IPLUS CLM.HEAD# 9)))
           CLM.MENUWINDOW)
    (for itm in clm.headitems bind (aptr _ clm.head#) do (fm.changelabel itm (CLMAILHEADSTRING aptr)
                                                                    CLM.MENUWINDOW)
                                                            (SETQ APTR (ADD1 APTR])
(CLMAILHEADSTRING
  [LAMBDA (HEAD#)
                                                                      (* jrb%: "31-Mar-86 21:19")
          (* * If the index is outside the array, return a null string to blank out that slot in the menu)
           (* * If the array element is a number, it hasn't been fetched from the hashfile yet;
          do so)
          (* * Otherwise just return it)
    (COND
       ((GREATERP HEAD# (ARRAYSIZE CLM.HEADARRAY))
       ((NUMBERP (ELT CLM.HEADARRAY HEAD#))
        (SETA CLM.HEADARRAY HEAD# (CONS (ELT CLM.HEADARRAY HEAD#)
                                           (GETHASHFILE (ELT CLM.HEADARRAY HEAD#)
                                                   CLM.HEADHASH)))
        (CDR (ELT CLM.HEADARRAY HEAD#)))
       (T (CDR (ELT CLM.HEADARRAY HEAD#])
(CLMAILFIRST
  [LAMBDA NIL
                                                                      (* jrb%: "31-Mar-86 19:50")
    (SETQ CLM.HEAD# 1)
    (CLMAILREDOMENU])
(CLMAILLAST
                                                                      (* jrb%: "31-Mar-86 21:58")
  [LAMBDA NIL
    (SETQ CLM.HEAD# (MAX 1 (IDIFFERENCE (ARRAYSIZE CLM.HEADARRAY)
                                     9)))
    (CLMAILREDOMENU])
(CLMAILFWD
  [LAMBDA NIL
                                                                      (* jrb%: "31-Mar-86 22:05")
    [SETQ CLM.HEAD# (MAX 1 (MIN (IPLUS CLM.HEAD# 10)
                                   (IDIFFERENCE (ARRAYSIZE CLM.HEADARRAY)
                                          91
    (CLMAILREDOMENU1)
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(CLMAILBKWD
  [LAMBDA NIL
                                                                      (* jrb%: "31-Mar-86 22:05")
    (SETQ CLM.HEAD# (MAX 1 (IDIFFERENCE CLM.HEAD# 10)))
    (CLMAILREDOMENU])
(CLMAILQUIT
  [LAMBDA NIL
                                                                      (* jrb%: "31-Mar-86 19:52")
    (CLOSEHASHFILE CLM.MSGHASH)
    (CLOSEHASHFILE CLM. HEADHASH)
    (CLOSEW CLM.MENUWINDOW])
(MAKECMLHEADHASH
  [LAMBDA (DATAFILENAME HASHFILENAME)
                                                                      (* jrb%: "26-Mar-86 10:19")
    (LET ((HF (CREATEHASHFILE HASHFILENAME 'SMALLEXPR 70 4100))
          (DF (OPENSTREAM DATAFILENAME 'INPUT))
          KEY SUBJECT SENDER DATE)
         (while (NOT (EOFP DF)) do (SETQ KEY (READ DF))
                                     (SETQ SUBJECT (READ DF))
                                     (SETQ SENDER (READ DF))
                                     (SETO DATE (READ DF))
                                     (PUTHASHFILE KEY (CONCAT SUBJECT " " SENDER " " DATE)
                                            HF)
            finally (CLOSEHASHFILE HF)
                   (CLOSEF DF])
(MAKECMLMAILHASH
  [LAMBDA (DATAFILENAME HASHFILENAME)
                                                                      (* jrb%: "29-Oct-86 12:43")
    (LET ((HF (CREATEHASHFILE HASHFILENAME 'EXPR 80 23000))
          (DF (OPENSTREAM DATAFILENAME 'INPUT))
          KEY VLIST NEXTITEM)
         (SETQ KEY (READ DF))
         (CL:UNWIND-PROTECT
              (while (NOT (EOFP DF)) do (if (NUMBERP (SETQ NEXTITEM (READ DF)))
                                             then (push VLIST NEXTITEM)
                                           else (PUTHASHFILE KEY (CL:NREVERSE VLIST)
                                                       HF)
                                                (SETQ KEY NEXTITEM)
                                                (SETQ VLIST NIL))
                 finally (PUTHASHFILE KEY (CL:NREVERSE VLIST)
                              HF))
              (CLOSEHASHFILE HF)
              (CLOSEF DF))))
(UPDATEHASHFILES
                                                                      (* jrb%: "28-May-86 13:32")
  [LAMBDA NIL
          (* * First open all the files)
    (LET [ (MDF (OPENSTREAM CLM.MAILDATANAME 'INPUT) )
           (HDF (OPENSTREAM CLM.HEADDATANAME 'INPUT))
                (OPENHASHFILE CLM.MAILHASHNAME 'BOTH))
           (MHF
           (HHF (OPENHASHFILE CLM. HEADHASHNAME 'BOTH]
          (* * Then hash out all the new header lines)
         (while (readp hdf) bind key subject vaxcfile do (setq key (read hdf))
                                                             (SETQ SUBJECT (READ HDF))
                                                             (PUTHASHFILE KEY SUBJECT HHF)
                                                             (COPYFILE (SETQ VAXCFILE (CONCAT CLM.VAXCDIR KEY))
(CONCAT CLM.MSGDIR KEY))
                                                             (DELFILE VAXCFILE)
                                                             (PRINTOUT T KEY %,)
            finally (CLOSEHASHFILE HHF)
                   (CLOSEF HDF)
                   (TERPRI))
          (* * And then update the message hash file)
         (while (READP MDF) bind (KEY
                                          (READ MDF))
                                  NEXTITEM VLIST
            do (if (NUMBERP (SETQ NEXTITEM (READ MDF)))
                    then (push VLIST NEXTITEM)
                  else (PUTHASHFILE KEY (NCONC (GETHASHFILE KEY MHF)
                                                 (DREVERSE VLIST))
                              MHF)
                       (PRINTOUT T KEY %,)
                       (SETQ KEY NEXTITEM)
(SETQ VLIST NIL))
            finally (PUTHASHFILE KEY (NCONC (GETHASHFILE KEY MHF)
                                             (DREVERSE VLIST))
                          MHF)
                   (CLOSEF MDF)
```

(CLOSEHASHFILE MHF)
(PRINTOUT T T "DONE!" T])

```
(CMLMAIL1
  [LAMBDA NI]
                                                                              (* jrb%: "31-Mar-86 21:47")
     (CLMAILDISPLAY 11)
(CMLMAIL2
                                                                              (* jrb%: "31-Mar-86 21:47")
  [LAMBDA NI
    (CLMAILDISPLAY 21)
(CMLMAIL3
  [LAMBDA NIL
(CLMAILDISPLAY 3])
                                                                             (* irb%: "31-Mar-86 21:50")
(CMLMAIL4
                                                                              (* jrb%: "31-Mar-86 21:50")
  [LAMBDA NII
     (CLMAILDISPLAY 41)
(CMLMAIL5
  [LAMBDA NIL (CLMAILDISPLAY 5])
                                                                             (* jrb%: "31-Mar-86 21:50")
(CMLMAIL6
  [LAMBDA NIL (CLMAILDISPLAY 6])
                                                                              (* jrb%: "31-Mar-86 21:50")
(CMLMAIL7
  [LAMBDA NIL
                                                                              (* jrb%: "31-Mar-86 21:50")
     (CLMAILDISPLAY 7])
(CMLMAIL8
  [LAMBDA NIL
(CLMAILDISPLAY 8])
                                                                             (* jrb%: "31-Mar-86 21:52")
(CMLMAIL9
  [LAMBDA NII
                                                                              (* irb%: "31-Mar-86 21:52")
     (CLMAILDISPLAY 9])
(CMLMAIL0
  [LAMBDA NIL
                                                                             (* jrb%: " 1-Apr-86 09:35")
    (CLMAILDISPLAY 01)
(RPAQQ CLM.MENUFORMAT
        ((PROPS FORMAT ROW)
         ((TYPE DISPLAY LABEL "Common Lisp Mailing List Index" FONT (MODERN 10 BOLD)
         HJUSTIFY CENTER))
((TYPE EDITSTART LABEL "Word (implicit AND):" LINKS (EDIT THEWORD)
                  FONT
                  (MODERN 10 BOLD))
         (MODERN 10 BOLD))
(TYPE EDIT ID THEWORD LABEL ""))
((TYPE DISPLAY LABEL "Above: FONT (MODERN 10 BOLD))
(TYPE DISPLAY ID ABOVEFIELD LABEL " ")
(TYPE DISPLAY LABEL "Below: FONT (MODERN 10 BOLD))
           (TYPE DISPLAY ID BELOWFIELD LABEL "
         ((TYPE MOMENTARY LABEL "Search!" FONT (MODERN 10 BOLD)
                  SELECTEDFN CLMAILSEARCH)
           (TYPE MOMENTARY LABEL "First!" FONT (MODERN 10 BOLD)
                  SELECTEDFN CLMAILFIRST)
           (TYPE MOMENTARY LABEL "Last!" FONT (MODERN 10 BOLD)
                  SELECTEDFN CLMAILLAST)
           (TYPE MOMENTARY LABEL "Forwards!" FONT (MODERN 10 BOLD)
                 SELECTEDFN CLMAILFWD)
           (TYPE MOMENTARY LABEL "Backwards!" FONT (MODERN 10 BOLD)
                  SELECTEDFN CLMAILBKWD)
           (TYPE MOMENTARY LABEL "Quit!" FONT (MODERN 10 BOLD)
                  SELECTEDFN CLMAILQUIT))
         ((TYPE MOMENTARY LABEL "
" ID LINE1 SELECTEDFN CMLMAIL0))
         ((TYPE MOMENTARY LABEL "" SELECTEDFN CMLMAIL1))
((TYPE MOMENTARY LABEL "" SELECTEDFN CMLMAIL2))
         ((TYPE MOMENTARY LABEL "" SELECTEDFN CMLMAIL3))
         ((TYPE MOMENTARY LABEL "" SELECTEDFN CMLMAIL4))
          ((TYPE MOMENTARY LABEL "" SELECTEDFN CMLMAIL5))
         ((TYPE MOMENTARY LABEL "" SELECTEDFN CMLMAIL6))
```

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{MEDLEY}<internal>envos>CLMAIL.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:22:31 --

	ΓΙΟΝ	

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