

File created: 26-Feb-2024 20:13:24 {WMEDLEY}<library>lafite>LAFITE-MAILSCAVENGE.;2

edit by: rmk

changes to: (VARS LAFITE-MAILSCAVENGECOMS)  
(FNS MAILSCAVENGE)

previous date: 24-Feb-2024 11:28:52 {WMEDLEY}<library>lafite>LAFITE-SCAVENGE.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

(RPAQQ **LAFITE-MAILSCAVENGECOMS**

```
[ (FNS MAILSCAVENGE \MAILSCAVENGE.INTERNAL \MAILSCAVENGE.OPEN.SCRATCH \MAILSCAVENGE.LENGTHWIDTH
  \MAILSCAVENGE.LFCOPYBYTES \MAILSCAVENGE.READSTAMP \MAILSCAVENGE.DUPLICATE? \MAILSCAVENGE.FORMAT
  \MAILSCAVENGE.MAKEWINDOW \MAILSCAVENGE.ASKUSER \MAILSCAVENGE.FIX.LENGTHS \MAILSCAVENGE.CONFIRM)
(DECLARE%: EVAL@COMPILE DONTCOPY (CONSTANTS (*START*LENGTH 8))
  (SPECVARS *FOLDER* *ERRORMSGSTREAM* *EOL*)
  (LOCALVARS . T))
(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA)
  (NLAML)
  (LAMA \MAILSCAVENGE.FORMAT]))
```

(DEFINEQ

**(MAILSCAVENGE**

[LAMBDA (FOLDERNAME ERRORMSGSTREAM FORGET?) ; Edited 18-Apr-89 18:19 by bvm

;; User entry to the scavenger. If FORGET?, we won't add folder to the list of known folders.

```
(LET [(FOLDER (LAFITE.OBTAIN.FOLDER (LA.LONGFILENAME FOLDERNAME LAFITEMAIL.EXT)
  'INPUT T (AND FORGET? :FORGET)
  (WITH.MONITOR (fetch (MAILFOLDER FOLDERLOCK) of FOLDER)
    (\MAILSCAVENGE.INTERNAL FOLDER ERRORMSGSTREAM]))
```

**(MAILSCAVENGE.INTERNAL**

[LAMBDA (\*FOLDER\* \*ERRORMSGSTREAM\* GOODPTR MSGNO) ; Edited 3-May-89 13:05 by bvm

;; Scavenge FOLDER, which can be a mail folder, mail file name, or open stream on a mail file. Commentary goes to \*ERRORMSGSTREAM\*,  
;; which for folders defaults to its browser window. If GOODPTR is supplied, it is a file pointer that we assert points to the \*START\* corresponding  
;; to msg # MSGNO, and we guarantee we will not touch anything earlier in the file.

```
(LET (SCRATCHSTREAM FOLDERSTRM)
  (CL:UNWIND-PROTECT
    (PROG ((*UPPER-CASE-FILE-NAMES* NIL)
      (*PRINT-BASE* 10)
      (BADCOUNT 0)
      (*START* ""start*
        ")
      (*EOL* (CHARCODE CR))
      (COPYFN (FUNCTION COPYBYTES))
      TRYPTR LFP PWINDOW XPOS DUPSCRATCH FOLDERNAME EOFPTR BODYSTART BADHEADER NOMOREP STAMPLENGTH
      MSGLENGTH ENDPTR FIELDWIDTH LENGTHFIXUPS TRUNCATEPTR TSTREAM SUCCESS CH)
      (DECLARE (CL:SPECIAL *FOLDER* *ERRORMSGSTREAM* *EOL*))
      ; Used by \mailscavenge.askuser
```

```
[if (TYPENAMEP *FOLDER* 'MAILFOLDER)
  then ; It's a mail folder, so play by the rules
      (SETQ FOLDERSTRM (\LAFITE.OPEN.FOLDER *FOLDER* 'INPUT :OK))
      (SETQ PWINDOW (fetch (MAILFOLDER BROWSERPROMPTWINDOW) of *FOLDER*))
  elseif (TYPENAMEP *FOLDER* 'STREAM)
  then (SETQ FOLDERSTRM *FOLDER*)
  else (SETQ FOLDERSTRM (\LAFITE.OPENSTREAM *FOLDER* 'INPUT 'OLD (FUNCTION \LAFITE.EOF)
    NIL
    'LAFITE])
  (SETQ FOLDERNAME (FULLNAME FOLDERSTRM))
  (SETFILEINFO FOLDERSTRM 'BUFFERS 30)
  (SETQ EOFPTR (GETEOFPTR FOLDERSTRM))
  (SETFILEPTR FOLDERSTRM 0)
  (if PWINDOW
    then (LAB.PROMPTPRINT *FOLDER* " Scavenging... ")
          (SETQ XPOS (DSPXPOSITION NIL PWINDOW)))
  [if (NOT *ERRORMSGSTREAM*)
    then (SETQ *ERRORMSGSTREAM* (if (AND (TYPENAMEP *FOLDER* 'MAILFOLDER)
      (SETQ TSTREAM (\MAILSCAVENGE.MAKEWINDOW *FOLDER*)))
      ; We waited til here to make the window in case printing
      ; "Scavenging..." up there grew the window.
      (TEXTSTREAM TSTREAM)
      else (GETSTREAM NIL 'OUTPUT]
  (MAILSCAVENGE.FORMAT "Scavenging ~A..." FOLDERNAME)
  (if GOODPTR
    then ; Somebody has already gotten us started
          (GO LP)
    else (SETQ GOODPTR 0)
          (SETQ MSGNO 1)
          (if (LA.READSTAMP FOLDERSTRM)
            then ; Good start
```



```

elseif BADHEADER
  then
      ; Length ok, but header was malformed. It is likely to be safe to
      ; just overwrite the header
      (add BADCOUNT 1)
      (\MAILSCAVENGE.FORMAT "~%%Message #~D at byte ~D: length ok, but header garbled."
        MSGNO GOODPTR)
      (SETQ FIELDWIDTH (\MAILSCAVENGE.LENGTHWIDTH FOLDERSTRM GOODPTR))
      (if SCRATCHSTREAM
        then
            ; Have to copy
            (SETQ BODYSTART (+ GOODPTR FIELDWIDTH LAFITEBASICSTAMPLENGTH))
            (SETQ MSGLENGTH (- ENDPTR BODYSTART))
            (GO COPYMSG)
        else
            ; Remember fixup
            (push LENGTHFIXUPS (LIST GOODPTR MSGLENGTH FIELDWIDTH T))
            (GO NEXT))
    else
        ; Well-formed message
        [if (AND (< (- BODYSTART GOODPTR)
          STAMPLENGTH)
          (EQ (PROGN (SETFILEPTR FOLDERSTRM BODYSTART)
            (BIN FOLDERSTRM))
              (CHARCODE *)))
          then
              ; May be a funny one
              (LET ((INFO (CL:READ-LINE FOLDERSTRM))
                ISDUP)
                (if [AND (STRPOS "duplicate*" INFO 1 NIL T)
                  (FIXP (SETQ INFO (SUBATOM INFO 11))
                    ; This message claims to be a duplicate of the one at INFO
                    [SETQ ISDUP (\MAILSCAVENGE.DUPLICATE?
                      FOLDERSTRM INFO GOODPTR STAMPLENGTH MSGLENGTH
                      (OR DUPSCRATCH (SETQ DUPSCRATCH (OPENSTREAM
                        "{nodircore}"
                        'BOTH)
                      (\MAILSCAVENGE.FORMAT "~%%Message #~D at byte ~D is marked as a
                        duplicate of the one at byte~D from an aborted
                        Expunge~A." MSGNO GOODPTR INFO
                        (if (NOT ISDUP)
                          then "; however, the original is not there"
                          elseif SCRATCHSTREAM
                            then " (not copied)"
                          else "")
                        (if ISDUP
                          then
                              ; Nothing to do.
                              (GO NEXT)
                          elseif SCRATCHSTREAM
                            then (SETQ BADHEADER T)
                              ; so that message gets undeleted
                              (GO COPYGOOD)
                          else
                              ; Want to rewrite the flags
                              (push LENGTHFIXUPS (LIST GOODPTR NIL NIL T))
                              (GO NEXT)]
                (if SCRATCHSTREAM
                  then
                      ; Copy verbatim to scratch file
                      (CL:FUNCALL COPYFN FOLDERSTRM SCRATCHSTREAM GOODPTR ENDPTR))
                  (GO NEXT))
        FINDSTART
        ;; At this point, we have a malformed message starting at GOODPTR. Look for its end. If the header is also malformed,
        ;; BADHEADER is true. BODYSTART points at what could be the start of text..
        (SETQ TRYPTR BODYSTART)
        FINDSTARTLP
        (SETQ ENDPTR (FFILEPOS *START* FOLDERSTRM TRYPTR))
        (if (NULL ENDPTR)
          then
              ; Can't find next message. Maybe this is the last one
              (if (AND (EQ MSGNO 1)
                BADHEADER)
                then
                    ; Never saw a single *start*
                    (if [NULL (\MAILSCAVENGE.ASKUSER (CL:FORMAT NIL "There are no message
                      boundaries in this file. Do you
                      want to turn the file into a single
                      message of length ~D?"
                      (- EOFPTR GOODPTR)
                    then (RETURN NIL)))
                    (SETQ ENDPTR EOFPTR)
                elseif (AND LFP (PROGN
                  ; Have to check that an eol follows, since we're not sure which
                  ; kind.
                  (SETFILEPTR FOLDERSTRM (+ ENDPTR (SUB1 *START*LENGTH)))
                  (SELCHARQ (BIN FOLDERSTRM)
                    ((CR LF)
                     NIL)
                    T)))
                  then (SETQ TRYPTR (+ ENDPTR (- *START*LENGTH 2)))
                    (GO FINDSTARTLP))
                (\MAILSCAVENGE.FORMAT "~%%Message #~D at byte ~D: length ~:[missing~%% (~;incorrect~%%
                  (file says ~:*~D, ~]apparent length is ~D)" MSGNO GOODPTR MSGLENGTH
                  (if BADHEADER
                    then
                        ; Estimate based on standard header size. We'll be exact later

```

```

                (+ LAFITESTAMPLength (SETQ MSGLENGTH (- ENDPTR BODYSTART)))
            else (SETQ MSGLENGTH (- ENDPTR GOODPTR]
(add BADCOUNT 1)
(if BADHEADER
  then (\MAILSCAVENGE.FORMAT "~%% Need to rebuild internal header. Message body may be
        malformed.")
        (GO COPYMSG) ; Header ok, just the length was wrong
(if (NULL SCRATCHSTREAM) ; Should suffice just to change length in place
  then
    (if (<= (NCHARS MSGLENGTH)
          (SETQ FIELDWIDTH (\MAILSCAVENGE.LENGTHWIDTH FOLDERSTRM GOODPTR)))
      then ; Good, the correct length fits in the available space. Save for
          ; confirmation later
          (push LENGTHFIXUPS (LIST GOODPTR MSGLENGTH FIELDWIDTH))
          (GO NEXT))
      ;; Arrrgh, the length is too big. Fall thru to copy message to scratch file.
      (\MAILSCAVENGE.FORMAT "~%%New length does not fit into old header, will have to
        rebuild."))
COPYGOOD

;; Bring MSGLENGTH down to just the body length so we compute the new header correctly
(SETQ MSGLENGTH (- MSGLENGTH STAMPLength))
COPYMSG

;; At this point, we want to write the current message on scratch file. MSGLENGTH is the length of the body, sans header, starting at
;; BODYSTART. If BADHEADER is true, we rebuild whole header. Otherwise, message is believed well-formed, so we can copy flag
;; bytes from old message.
(if (NULL SCRATCHSTREAM)
  then ; Have to set up scratch file
    (\MAILSCAVENGE.FORMAT "~%%Opening scratch file to handle rebuilt header.")
    (SETQ SCRATCHSTREAM (\MAILSCAVENGE.OPEN.SCRATCH FOLDERNAME))
    (if (> GOODPTR 0)
      then (\MAILSCAVENGE.FORMAT "~%%Copying ~D previous message~:P to scratch
        file..." (SUB1 MSGNO))
        (COPYBYTES FOLDERSTRM SCRATCHSTREAM 0 GOODPTR)
        (\MAILSCAVENGE.FORMAT "done."))
    (LA.PRINTHEADER SCRATCHSTREAM MSGLENGTH)
  (if BADHEADER
    then ; Have to create afresh, so use primordial flags
      (PRIN3 "UU
             " SCRATCHSTREAM)
    else ; Original header was ok, except for length info, so copy flags
          ; and mark byte from it.
          (CL:FUNCALL COPYFN FOLDERSTRM SCRATCHSTREAM (- BODYSTART 4)
            BODYSTART)
          (SETQ BODYSTART (+ GOODPTR STAMPLength))
          (CL:FUNCALL COPYFN FOLDERSTRM SCRATCHSTREAM BODYSTART ENDPTR)
NEXT
(COND
  ((< (SETQ GOODPTR ENDPTR)
      EOFPTR) ; Go process some more
    (add MSGNO 1)
    (GO LP)))
DONE

;; All finished--shall we confirm it?
(if SCRATCHSTREAM
  then ; Close this now (could be slow) before saying done.
    (SETQ SCRATCHSTREAM (CLOSEF SCRATCHSTREAM)))
(if PWINDOW
  then (DSPXPOSITION XPOS PWINDOW)
        (PRIN1 "done. " PWINDOW))
(SETQ SUCCESS (if SCRATCHSTREAM
  then ; We had to use a scratch file.
    [if LENGTHFIXUPS
      then ; Had some length fixups before we got to a really bad spot, so
            ; go back and do them now
            [SETQ SCRATCHSTREAM (OPENSTREAM SCRATCHSTREAM 'BOTH
              'OLD
              '( (TYPE LAFITE)
                (CL:UNWIND-PROTECT
                  (\MAILSCAVENGE.FIX.LENGTHS LENGTHFIXUPS SCRATCHSTREAM)
                  (SETQ SCRATCHSTREAM (CLOSEF SCRATCHSTREAM)))]
              (if [AND (\MAILSCAVENGE.CONFIRM BADCOUNT MSGNO "Replace damaged mail
                file with scavenged file? ")
                (PROGN (if *FOLDER*
                  then (\LAFITE.CLOSE.FOLDER *FOLDER* T)
                  else (CLOSEF FOLDERSTRM))
                (CL:MULTIPLE-VALUE-BIND (RESULT CONDITION)
                  (\LAFITE.RENAMEFILE SCRATCHSTREAM FOLDERNAME)
                (if RESULT
                  then T
                  else (\MAILSCAVENGE.FORMAT "~%%RenameFile failed~@[

```

```

                                because ~A~]." CONDITION)
                                NIL)) ]
    then T
    else                               ; File not renamed, either because of error or user choice. Tell
                                        ; where the scavenged file is.
        (MAILSCAVENGE.FORMAT "~%%Scavenged file stored as ~A."
         SCRATCHSTREAM MSGNO)
    elseif (AND (NULL LENGTHFIXUPS)
             (NULL TRUNCATEPTR))
    then (MAILSCAVENGE.FORMAT "~%%~A is a well-formed message file of ~D
         messages." FOLDERNAME MSGNO)
    elseif (MAILSCAVENGE.CONFIRM BADCOUNT MSGNO "Shall I correct these messages
         in the file? ")
    then                               ; Do fixups in place
        [if *FOLDER*
         then (SETQ FOLDERSTRM (\LAFITE.OPEN.FOLDER *FOLDER* 'BOTH))
         elseif (NOT (OPENP FOLDERSTRM 'OUTPUT))
         then (SETQ FOLDERSTRM (OPENSTREAM (CLOSEF FOLDERSTRM
         'BOTH NIL '(TYPE LAFITE]
         (MAILSCAVENGE.FIX.LENGTHS LENGTHFIXUPS FOLDERSTRM)
         (if TRUNCATEPTR
          then                               ; Truncate file to drop nulls off end
              (SETFILEINFO FOLDERSTRM 'LENGTH TRUNCATEPTR))
          ; Return success
          T))
        (if SUCCESS
         then (MAILSCAVENGE.FORMAT "done.~2%%You may want to examine the messages listed above
         for duplications or concatenated messages.~%%"))
        (if TSTREAM
         then (DETACHWINDOW TSTREAM)
              (MAILSCAVENGE.FORMAT "
              (This report window is now detached from its browser.
              You may close it at your convenience.)"))
        (RETURN (AND SUCCESS FOLDERNAME)))
    ;; Cleanup time
    (if (type? MAILFOLDER *FOLDER*)
     then (\LAFITE.CLOSE.FOLDER *FOLDER* T)
     elseif (AND (STREAMP FOLDERSTRM)
                (OPENP FOLDERSTRM))
     then (CLOSEF FOLDERSTRM))
    (if (STREAMP SCRATCHSTREAM)
     then                               ; Must have aborted.
         (DELFILE (CLOSEF SCRATCHSTREAM))))

```

**(MAILSCAVENGE.OPEN.SCRATCH**

```

[LAMBDA (FOLDERNAME)                               ; Edited 3-May-89 13:03 by bvm
 (OPENSTREAM (PACKFILENAME.STRING 'VERSION NIL 'EXTENSION (CONCAT (UNPACKFILENAME.STRING FOLDERNAME
 'EXTENSION)
 "scavenged")
 'BODY FOLDERNAME)
 'OUTPUT
 'NEW
 '( (TYPE LAFITE)
 (SEQUENTIAL T])

```

**(MAILSCAVENGE.LENGTHWIDTH**

```

[LAMBDA (FOLDERSTRM STARTPTR)                       ; Edited 3-May-89 12:42 by bvm
 ;; Return the actual width of the "message length" field in this message
 (LET ((LENSTART (+ STARTPTR *START*LENGTH)))
 (SETFILEPTR FOLDERSTRM LENSTART)
 (LA.READCOUNT FOLDERSTRM T)
 (- (GETFILEPTR FOLDERSTRM)
 LENSTART 1])

```

**(MAILSCAVENGE.LFCOPYBYTES**

```

[LAMBDA (SRCFIL DSTFIL START END)                   ; Edited 3-May-89 13:07 by bvm
 ;; A COPYBYTES that turns LF into CR as it goes.
 (SETFILEPTR SRCFIL START)
 (to (- END START) bind CH do (\BOUT DSTFIL (if (EQ (SETQ CH (BIN SRCFIL))
 (CHARCODE LF))
 then (CHARCODE CR)
 else CH])

```

**(MAILSCAVENGE.READSTAMP**

```

[LAMBDA (STREAM)                                     ; Edited 3-May-89 12:20 by bvm
 ;; Like LA.READSTAMP, but also succeeds if the stamp ends in LF when we're processing a LF file.
 (AND (EQ (BIN STREAM)

```

```
(CHARCODE *)
(EQ (BIN STREAM)
(CHARCODE s))
(EQ (BIN STREAM)
(CHARCODE t))
(EQ (BIN STREAM)
(CHARCODE a))
(EQ (BIN STREAM)
(CHARCODE r))
(EQ (BIN STREAM)
(CHARCODE t))
(EQ (BIN STREAM)
(CHARCODE *))
(SELCHARQ (BIN STREAM)
(CR T)
(LF (EQ *EOL* (CHARCODE LF))))
NIL])
```

**(MAILSCAVENGE.DUPLICATE?**

```
[LAMBDA (FOLDERSTRM OLDPTR GOODPTR STAMPLENGTH MSGLENGTH SCRATCH)
; Edited 2-May-89 12:06 by bvm
;; True if the message at pointer OLDPTR is a duplicate of the one starting at GOODPTR with lengths STAMPLENGTH & MSGLENGTH.
(SETFILEPTR FOLDERSTRM OLDPTR)
(LET (OLDLENGTH OLDSTAMP)
(AND (LA.READSTAMP FOLDERSTRM)
(SETQ OLDLENGTH (LA.READCOUNT FOLDERSTRM))
(SETQ OLDSTAMP (LA.READCOUNT FOLDERSTRM))
(\LAFITE.CHECK.DUPLICATE FOLDERSTRM SCRATCH GOODPTR STAMPLENGTH MSGLENGTH OLDPTR OLDSTAMP
OLDLENGTH]))
```

**(MAILSCAVENGE.FORMAT**

```
(CL:LAMBDA (&REST ARGS) ; Edited 21-Apr-89 15:25 by bvm
(if (TEXTSTREAM *ERRORMSGSTREAM*)
then ;; It is MUCH faster to cons the string and hand it to tedit than to print a character at a time. One difference: unless we set the
;; "dontscroll" flag, the window will scroll when we run off the bottom. This is probably desirable, as it means we look like we're
;; doing something.
(TEDIT.INSERT *ERRORMSGSTREAM* (CL:APPLY (FUNCTION CL:FORMAT)
NIL ARGS)
(ADD1 (GETEOFPTR *ERRORMSGSTREAM*)))
else (CL:APPLY (FUNCTION CL:FORMAT)
*ERRORMSGSTREAM* ARGS)))
```

**(MAILSCAVENGE.MAKEWINDOW**

```
[LAMBDA (FOLDER) ; Edited 7-Feb-2022 11:51 by rmk
; Edited 21-Apr-89 15:34 by bvm
;; Return a tedit window to use for Scavenger report, or NIL if FOLDER doesn't have a browser
(LET ((BROWSERWINDOW (fetch (MAILFOLDER BROWSERWINDOW) of FOLDER)))
(if BROWSERWINDOW
then (LET* ((FONT (DSPFONT NIL (fetch (MAILFOLDER BROWSERWINDOW) of FOLDER)))
(ERRHEIGHT (HEIGHTIFWINDOW (TIMES 10 (FONTPROP FONT 'HEIGHT)
T))
(ERRW (CREATEW (CREATEREGION 0 0 10 ERRHEIGHT)
(CONCAT "Mail Scavenger Report for " (fetch (MAILFOLDER SHORTFOLDERNAME)
of FOLDER)
T)))
(ATTACHWINDOW ERRW BROWSERWINDOW (if (< (fetch (REGION BOTTOM) of (WINDOWPROP BROWSERWINDOW
'REGION))
ERRHEIGHT)
then ; Won't fit below
'TOP
else 'BOTTOM)
'JUSTIFY
'LOCALCLOSE)
(OPENTEXTSTREAM NIL ERRW NIL NIL `(FONT ,FONT PROMPTWINDOW DON'T)
ERRW]))
```

**(MAILSCAVENGE.ASKUSER**

```
[LAMBDA (PROMPT)
(DECLARE (CL:SPECIAL *FOLDER*)) ; Edited 2-May-89 11:42 by bvm
(LET (BROWSERWINDOW)
(if (AND *FOLDER* (SETQ BROWSERWINDOW (fetch (MAILFOLDER BROWSERWINDOW) of *FOLDER*)))
then ; Use the browser for interaction
(CLEARW BROWSERWINDOW)
(FLASHWINDOW BROWSERWINDOW)
(if (> (STRINGWIDTH PROMPT BROWSERWINDOW)
(WINDOWPROP BROWSERWINDOW 'WIDTH))
then ; Sigh, too wide to centerprint. I wish we had better text layout...
(RELMOVETO 0 (- (IQUOTIENT (WINDOWPROP BROWSERWINDOW 'HEIGHT)
2))
```

```

        BROWSERWINDOW)
    (PRIN3 PROMPT BROWSERWINDOW)
else
    ; Nicely center the prompt
    (CENTERPRINTINREGION PROMPT NIL BROWSERWINDOW))
(LET* ((MENU (fetch (MAILFOLDER BROWSERMENUWINDOW) of *FOLDER*))
      (MENUWREG (WINDOWPROP MENUW 'REGION))
      (MENUWIDTH (fetch (REGION WIDTH) of MENUWREG))
      [ITEMS ' ("Proceed" T "Continue the scavenge as asked")
            ("Abort" NIL "Abort the mail scavenge operation")]
      (MENU (create MENU
            ITEMS _ ITEMS
            CENTERFLG _ T
            MENUFONT _ LAFITEMENUFONT
            MENUROWS _ 1
            ITEMWIDTH _ (MAX (STRINGWIDTH (CAAR ITEMS)
                              LAFITEMENUFONT)
                             (IQUOTIENT MENUWIDTH 4))
            MENUOUTLINESIZE _ 0
            MENUBORDERSIZE _ 0)))
      ; Position the menu in the middle of the browser's menu window
      (PROG1 (MENU MENU (LA.POSITION.FROM.REGION MENUWREG (IQUOTIENT
                                                            (- MENUWIDTH (fetch (MENU IMAGEWIDTH
                                                                    )
                                                                    )
                                                                    )
                                                                    )
                                                            2)
              (WINDOWPROP MENUW 'BORDER))
            T)
      (CLEARW BROWSERWINDOW)))
else (EQ (ASKUSER NIL NIL PROMPT)
        'Y])

```

**(MAILSCAVENGE.FIX.LENGTHS**

```

[LAMBDA (FIXUPS STREAM)
    ; Edited 3-May-89 12:42 by bvm
    ;; Perform length fixups. FIXUPS has entries of the form (startptr length fieldwidth fixheader)

```

```

    (for ENTRY in FIXUPS do (DESTRUCTURING-BIND (START LENGTH FIELDWIDTH FIXHEADER)
      ENTRY
      (SETFILEPTR STREAM (+ START *START*LENGTH))
      (if LENGTH
        then (LA.PRINTCOUNT LENGTH STREAM `(FIX ,FIELDWIDTH 10 T))
        else (LA.READCOUNT STREAM))
      (if FIXHEADER
        then
            ; Write the rest of the header, too
            (if LENGTH
              then (LA.PRINTCOUNT (+ FIELDWIDTH LAFITEBASICSTAMPLENGTH)
                                   STREAM)
              else (LA.READCOUNT STREAM))
            (PRIN3 "UU
                  " STREAM])

```

**(MAILSCAVENGE.CONFIRM**

```

[LAMBDA (BADNO TOTALNO PROMPT)
    ; Edited 21-Apr-89 15:27 by bvm
    (DECLARE (CL:SPECIAL *FOLDER* *ERRORMSGSTREAM*))

```

```

    ;; Called at end of scavenge to report results. Return T/NIL response to PROMPT
    (LET ((FORMATSTRING "~2%%Finished, found ~D bad messages out of ~D total messages.~%%"))
      (MAILSCAVENGE.FORMAT FORMATSTRING BADNO TOTALNO)
      (if (MAILSCAVENGE.ASKUSER PROMPT)
        then [if *FOLDER*
              then
                  ; Make sure to delete any toc that might be hanging around
                  (DELFILE (TOCFILENAME (fetch (MAILFOLDER FULLFOLDERNAME) of *FOLDER*))
                           (MAILSCAVENGE.FORMAT "Working... "))
                  ; Show some response
              T])

```

```

)
(DECLARE%: EVAL@COMPILE DONTCOPY
(DECLARE%: EVAL@COMPILE
(RPAQQ *START*LENGTH 8)
(CONSTANTS (*START*LENGTH 8))
)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(SPECVARS *FOLDER* *ERRORMSGSTREAM* *EOL*)
)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(LOCALVARS . T)
)
)
)

```

```
{MEDLEY}<library>lafite>LAFITE-MAILSCAVENGE.;1  
(DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS  
(ADDTOVAR NLAMA )  
(ADDTOVAR NLAML )  
(ADDTOVAR LAMA \MAILSCAVENGE.FORMAT)  
)
```



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