

File created: 23-Feb-2024 22:24:01 {WMEDLEY}<library>lafite>LAFITE-FOLDERS.;2

edit by: rmk

changes to: (VARS LAFITE-FOLDERSCOMS)

previous date: 23-Feb-2024 22:01:00 {WMEDLEY}<library>lafite>LAFITE-FOLDERS.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

(RPAQQ LAFITE-FOLDERSCOMS

;; Maintenance of Lafite's folder structures, menus etc.

```
[COMS ; The profile
(FNS \LAFITE.READ.PROFILE \LAFITE.PROCESS.PROFILE \LAFITE.WRITE.PROFILE \LAFITE.MERGE.NAMELISTS
\LAFITE.READ.OLD.PROFILE \LAFITE.MERGE.FOLDERS \LAFITE.MERGE.STRUCTURES
\LAFITE.REPACK.FOLDERS)
(INITVARS (\LAFITEPROFILECHANGED)
(LAFITEMAILFOLDERS)
(\LAFITEPROFILEDATE))
(ADDVARS (LAFITE.PROFILE.VARS (*LA.ABBREVS.IN.PROFILE*)
(LAFITEMAILFOLDERS \LAFITE.MERGE.FOLDERS)
(LAFITEFORMFILES \LAFITE.MERGE.NAMELISTS)
(LAFITE.FOLDER.STRUCTURE \LAFITE.MERGE.STRUCTURES])
[COMS ; Prompting for folders
(FNS \LAFITE.PROMPTFORFOLDER PROMPTFORFILENAME MAKELAFITEMAILFOLDERSMENU
MAKELAFITEFOLDERSMENUITEMS LAFITE.GROUP.ITEM \LAFITE.ARRANGE.MENU \LAFITE.MAKE.FOLDER.MENU
LAFITE.SELECT.GROUP.FOLDERS LAFITE.SELECT.MULTIPLE \LAFITE.HANDLE.MULTIPLE.SELECTION
COLLECT.SHADED.ITEMS)
(INITVARS (LAFITE.2COLUMN.MENU.MIN.ITEMS 10)
(LAFITEFOLDERSMENU)
(LAFITEMULTIPLEFOLDERSMENU))
(ADDVARS (LAFITEMENUVARS LAFITEFOLDERSMENU LAFITEMULTIPLEFOLDERSMENU))
[COMS ; Name hacking
(FNS LA.LONGFILENAME LA.SHORTFILENAME FORGETMAILFILE \LAFITE.FOLDER.NAME.CHANGED
\LAFITE.CHANGE.NAME.IN.LIST \LAFITE.RECOMPUTE.FOLDER.NAMES \LAFITE.NEW.SHORT.NAME
\LAFITE.NOTICE.FILE \LAFITE.UNCACHE.FOLDER)
(INITVARS LAFITE.HOST.ABBREVS \LAFITE.PSEUDO.DEVICES))
[COMS ; Hacking the hierarchy
(FNS \LAFITE.NOTICE.FOLDERS \LAFITE.GC.FOLDERS \LAFITE.GC.FOLDERS.CONFIRM
\LAFITE.MAKE.RANDOM.DISPLAY \LAFITE.CHANGE.FOLDER.LIST \LAFITE.RENAME.FOLDER
\LAFITE.ADD.NEW.GROUP \LAFITE.CHECK.GROUP.NAME \LAFITE.CHANGE.GROUP.MEMBERS
\LAFITE.SELECT.GROUP.FOLDERS \LAFITE.CHANGE.SUBGROUPS \LAFITE.CHANGE.TOP.GROUPS
\LAFITE.DELETE.GROUP LAFITE.RENAME.GROUP \LAFITE.EDIT.HIERARCHY LAFITE.FIND.GROUP
UALPHORDERCAR)
(VARS LAFITE.SPACER.MENU.ITEM LAFITE.GROUP.COMMANDS (LAFITE.GROUP.COMMANDS.MENU))
(DECLARE%: EVAL@COMPILE DONTCOPY (FILES (SOURCE)
LAFITE-DECLS)
(LLOCALVARS . T)
(GLOBALVARS MENUFONT LAFITE.GROUP.COMMANDS.MENU LAFITE.GROUP.COMMANDS)
(P (CL:PROCLAIM ' (CL:SPECIAL *LA.ABBREVS.IN.PROFILE*]))
```

;; Maintenance of Lafite's folder structures, menus etc.

;; The profile

(DEFINEQ

(\LAFITE.READ.PROFILE

```
[LAMBDA (ONLYIFCHANGED) ; Edited 8-May-89 16:20 by bvm
(WITH.MONITOR \LAFITE.PROFILELOCK
[PROG ((*UPPER-CASE-FILE-NAMES* NIL)
(*LA.ABBREVS.IN.PROFILE* NIL)
FILENAME NEWDATE)
(SETQ \LAFITEPROFILECHANGED)
(if (SETQ FILENAME (INFILEP (LA.LONGFILENAME LAFITEINFO.NAME)))
then [COND
((OR (NOT ONLYIFCHANGED)
(NULL \LAFITEPROFILEDATE)
[NULL (SETQ NEWDATE (GETFILEINFO FILENAME 'ICREATIONDATE])
(> NEWDATE \LAFITEPROFILEDATE)) ; read in the profile file
(LET [(STREAM (\LAFITE.OPENSTREAM FILENAME 'INPUT)
(CL:UNWIND-PROTECT
(PROGN (SETQ \LAFITEPROFILEDATE (GETFILEINFO STREAM 'ICREATIONDATE))
(\LAFITE.PROCESS.PROFILE STREAM))
(CLOSEF STREAM))])
elseif [AND (NOT ONLYIFCHANGED)
(SETQ FILENAME (INFILEP (LA.LONGFILENAME "Lafite.profile")
then ; Read old-style profile
(\LAFITE.READ.OLD.PROFILE FILENAME))
[if (NULL LAFITEMAILFOLDERS)
then (SETQ LAFITEMAILFOLDERS (LIST (fetch PACKEDHOST&DIR of \LAFITEDEFAULTHOST&DIR)))
(SETQ LAFITEFORMFILES (SETQ LAFITE.FOLDER.STRUCTURE NIL))
else [if [AND LAFITE.FOLDER.STRUCTURE (LET [(TMP (CADR (CAR LAFITE.FOLDER.STRUCTURE]
```



```

' BOTH
' OLD]

(\LAFITE.PROCESS.PROFILE PFSTREAM T)
(SETFILEPTR PFSTREAM 0))
(T (SETQ PFSTREAM (OPENSTREAM (OR OLDNAME NAME)
                              ' OUTPUT
                              ' OLD/NEW])
(LINELENGTH MAX.SMALLP PFSTREAM)
(for V in LAFITE.PROFILE.VARS
 do (PRIN2 (LIST (fetch PFVARNAME of V)
                (CL:FUNCALL (OR (fetch PFDUMPFN of V)
                               (FUNCTION CL:IDENTITY))
                           (EVALV (fetch PFVARNAME of V))
                           (fetch PFVARNAME of V)))
          PFSTREAM LAFITEPROFILERDTBL))
[COND
 (OVERWRITING ; Truncate old file to current length
 (SETFILEINFO PFSTREAM 'LENGTH (GETFILEPTR PFSTREAM)
 (FORCEOUTPUT PFSTREAM)
 ; Do this first to ensure that any change of creation date has
 ; happened.
 (SETQ \LAFITEPROFILEDATE (GETFILEINFO PFSTREAM 'ICREATIONDATE))
 (CLOSEF PFSTREAM)
 (SETQ \LAFITEPROFILECHANGED)])])

```

(\LAFITE.MERGE.NAMELISTS

[LAMBDA (OLDNAMES NEWNAMES)

; Edited 12-Sep-88 16:04 by bvm

;; Remove duplicates from the two lists NAMES1 and NAMES2 and merge them

```

(LET [(DIFFNAMES (CL:SET-DIFFERENCE OLDNAMES NEWNAMES :TEST (FUNCTION STRING-EQUAL)
(COND
 ([AND DIFFNAMES (OR (EQUAL *LA.ABBREVS.IN.PROFILE* (CDR \LAFITE.PSEUDO.DEVICES))
 (SETQ DIFFNAMES (CL:SET-DIFFERENCE OLDNAMES
 (for NAME in NEWNAMES
 collect ; Grumble--abbrevs changed, so have to recompute old list as if
 ; with new abbrevs
 (LA.SHORTFILENAME (LA.LONGFILENAME NAME NIL
 NIL
 *LA.ABBREVS.IN.PROFILE*
 T)))
 :TEST
 (FUNCTION STRING-EQUAL)
 ; Yes, there are some new names
 (SORT (APPEND DIFFNAMES NEWNAMES)
 (FUNCTION UALPHORDER)))
 (T NEWNAMES)])

```

(\LAFITE.READ.OLD.PROFILE

[LAMBDA (FILE)

; Edited 21-Sep-87 15:16 by bvm:

;; Read old-style profile, which consisted of the list of folders, then the list of forms.

```

(LET [(STREAM (\LAFITE.OPENSTREAM FILE 'INPUT 'OLD]
 (CL:UNWIND-PROTECT
 (PROGN (SETQ LAFITEMAILFOLDERS (MAPCAR (READ STREAM LAFITEPROFILERDTBL)
 (FUNCTION MKSTRING)))
 (RPLACD LAFITEMAILFOLDERS (CL:SORT (CDR LAFITEMAILFOLDERS)
 (FUNCTION UALPHORDER)))
 ; just in case it wasn't already sorted
 (SETQ LAFITEFORMFILES (READ STREAM LAFITEPROFILERDTBL))
 (SETQ \LAFITEPROFILECHANGED T))
 (CLOSEF STREAM)]))

```

(\LAFITE.MERGE.FOLDERS

[LAMBDA (OLDFOLDERS CURRENTFOLDERS)

; Edited 9-Sep-87 16:16 by bvm:

```

(COND
 [(STRING-EQUAL (CAR OLDFOLDERS)
 (CAR CURRENTFOLDERS))
 (CONS (CAR CURRENTFOLDERS)
 (\LAFITE.MERGE.NAMELISTS (CDR OLDFOLDERS)
 (CDR CURRENTFOLDERS)
 (T CURRENTFOLDERS)])

```

; same host&dir, ok to merge

(\LAFITE.MERGE.STRUCTURES

[LAMBDA (NEWSTRUCTURE)

; Edited 12-Apr-89 16:57 by bvm

```

(for GROUP in NEWSTRUCTURE do (RPLACD (CDR GROUP)
 (CL:INTERSECTION (CDDR GROUP)
 (CDR LAFITEMAILFOLDERS)])

```

(\LAFITE.REPACK.FOLDERS

[LAMBDA (NAMES OLDDIR OLDABBREVS)

; Edited 12-Sep-88 15:57 by bvm

;; Action taken when you load a profile whose internal host&dir is different from the directory where it lives. Fix up any partially specified names,

:: returning a new list of "short" names. We assume that completely unqualified folder names have been moved along with the profile, but that
:: other names haven't.

```
(for FILE in NAMES bind FIELDS FIRSTFIELD (OLDFIELDS _ (AND OLDDIR (UNPACKFILENAME.STRING OLDDIR)))
collect (SETQ FIELDS (UNPACKFILENAME.STRING FILE))
(if (EQ (SETQ FIRSTFIELD (CAR FIELDS))
'NAME)
then FILE ; No host & dir at all, so nothing to change.
else (LA.SHORTFILENAME (LA.LONGFILENAME FIELDS NIL OLDFIELDS OLDABBREVS T)))
)
```

(RPAQ? \LAFITEPROFILECHANGED)

(RPAQ? LAFITEMAILFOLDERS)

(RPAQ? \LAFITEPROFILEDATE)

```
(ADDTOVAR LAFITE.PROFILE.VARS (*LA.ABBREVS.IN.PROFILE*)
(LAFITEMAILFOLDERS \LAFITE.MERGE.FOLDERS)
(LAFITEFORMFILES \LAFITE.MERGE.NAMELISTS)
(LAFITE.FOLDER.STRUCTURE \LAFITE.MERGE.STRUCTURES))
```

:: Prompting for folders

(DEFINEQ

(\LAFITE.PROMPTFORFOLDER

[LAMBDA (WINDOW) ; Edited 20-Jun-88 17:03 by bvm

:: Prompts for a folder name from the folders menu and returns it. WINDOW is used if "Other" was selected; if NIL, a pop-up window is used. If a
:: filename was typed manually, second value returned is T.

```
(LET [(FILE (MENU (OR LAFITEFOLDERSMENU (MAKELAFITEMAILFOLDERSMENU)
(SELECTQ FILE
(NIL NIL)
(%##ANOTHERFILE##
(if (SETQ FILE (PROMPTFORFILENAME WINDOW \LAFITE.LAST.FOLDER.NAME))
then (SETQ \LAFITE.LAST.FOLDER.NAME FILE)
(CL:VALUES FILE T)))
FILE])])
```

(PROMPTFORFILENAME

[LAMBDA (WINDOW DEFAULT PROMPT) ; Edited 2-Nov-89 17:56 by bvm

(OR PROMPT (SETQ PROMPT (if DEFAULT
then "File name (null name aborts command): "
else "File name (CR to abort): ")))

```
(RESETLST
(RESETSAVE (TTY.PROCESS (THIS.PROCESS)))
(RESETSAVE NIL (LIST (COND
(WINDOW (FUNCTION CLEARW))
(T [SETQ WINDOW (LET* [(FONT (DEFAULTFONT 'DISPLAY))
[WIDTH (WIDTHIFWINDOW (+ (STRINGWIDTH PROMPT FONT)
(TIMES 50 (CHARWIDTH
(CHARCODE A)
FONT)
(HEIGHT (HEIGHTIFWINDOW (FONTPROP FONT 'HEIGHT)
(CREATEW (create REGION
LEFT _ (MIN LASTMOUSEX (- SCREENWIDTH
WIDTH))
BOTTOM _ (MIN LASTMOUSEY (- SCREENHEIGHT
HEIGHT))
WIDTH _ WIDTH
HEIGHT _ HEIGHT]
(WINDOWPROP WINDOW 'PAGEFULLFN (FUNCTION NIL))
(FUNCTION CLOSEW))
WINDOW))
(TTYINPROMPTFORWARD PROMPT DEFAULT NIL WINDOW NIL NIL (CHARCODE (CR))))]))
```

(MAKELAFITEMAILFOLDERSMENU

[LAMBDA NIL ; Edited 12-Apr-89 15:31 by bvm

(SETQ LAFITEFOLDERSMENU (\LAFITE.MAKE.FOLDER.MENU (MAKELAFITEFOLDERSMENUITEMS]))

(MAKELAFITEFOLDERSMENUITEMS

[LAMBDA NIL ; Edited 29-Jun-89 10:33 by bvm

```
(if LAFITE.FOLDER.STRUCTURE
then (LET (UNGROUPED.FOLDERS GROUPED.FOLDERS SUBGROUPS GROUP)
(for GROUP in LAFITE.FOLDER.STRUCTURE do (SETQ GROUPED.FOLDERS (APPEND (fetch FGFOLDERS
of GROUP)
GROUPED.FOLDERS))
(SETQ SUBGROUPS (APPEND (fetch FGSUBGROUPS of GROUP)
SUBGROUPS)))
[SETQ UNGROUPED.FOLDERS (for FOLDER in (CDR LAFITEMAILFOLDERS) collect FOLDER
unless (CL:MEMBER FOLDER GROUPED.FOLDERS :TEST 'STRING-EQUAL])
```

```

; This is just SET-DIFFERENCE, but writing it this way forces the
; order to be preserved, so I don't have to SORT again.
(NCONC [for GROUP in LAFITE.FOLDER.STRUCTURE
      when [OR (fetch FGTOPLEVEL of GROUP)
             (NOT (CL:MEMBER (fetch FGNAME of GROUP)
                             SUBGROUPS :TEST 'STRING-EQUAL]
      collect
        (LAFITE.GROUP.ITEM GROUP (LIST (fetch FGNAME of GROUP)
        (LIST LAFITE.SPACER.MENU.ITEM)
        UNGROUPED.FOLDERS
        (LIST ANOTHERFOLDERMENUITEM)))
      else (APPEND (CDR LAFITEMAILFOLDERS)
                (LIST LAFITE.SPACER.MENU.ITEM ANOTHERFOLDERMENUITEM))

```

(LAFITE.GROUP.ITEM

```

[LAMBDA (GROUP SUPERS) ; Edited 8-May-89 15:51 by bvm
  (LET [(FOLDERS (fetch FGFOLDERS of GROUP))
        (SUBGROUPITEMS (for SUBGROUP in (fetch FGSUBGROUPS of GROUP) unless (CL:MEMBER SUBGROUP SUPERS :TEST 'STRING-EQUAL)
                          collect (LAFITE.GROUP.ITEM (LAFITE.FIND.GROUP SUBGROUP)
                                                      (CONS SUBGROUP SUPERS]
        ` (, (CAR GROUP)
          NIL "Slide out the submenu to choose a folder from this group" (SUBITEMS ,@FOLDERS
                                                                           ,@(AND SUBGROUPITEMS FOLDERS
                                                                           (LIST
                                                                           LAFITE.SPACER.MENU.ITEM
                                                                           )))
          ,@SUBGROUPITEMS])

```

(\LAFITE.ARRANGE.MENU

```

[LAMBDA (ITEMS FONT MAXHEIGHT TITLE) ; Edited 21-Jun-89 11:58 by bvm
  ;; Returns 2 values: the number of columns it takes to make a menu no taller than MAXHEIGHT containing ITEMS printed in FONT, and a
  ;; rearrangement of ITEMS to make the menu appear vertical. We do this manually to get around bugs in the MENU code (viz. that the column
  ;; width is at least as wide as the menu title). We also make 2 columns when the title is much wider than the columns would need to be
  (OR FONT (SETQ FONT MENUFONT))
  (LET* ((ITEMHEIGHT (FONTPROP FONT 'HEIGHT))
         (NITEMS (LENGTH ITEMS))
         (TOTALHEIGHT (TIMES NITEMS ITEMHEIGHT)))
    (if [OR (> TOTALHEIGHT MAXHEIGHT)
          (AND (> NITEMS LAFITE.2COLUMN.MENU.MIN.ITEMS)
               (> (TIMES 2 (STRINGWIDTH TITLE WINDOWTITLEFONT))
                   (TIMES 3 (for I in ITEMS bind (MAXWIDTH _ 0)
                                     when (AND (STRINGP (if (LISTP I)
                                                             then (SETQ I (CAR I))
                                                             else I))
                                     (> (SETQ I (STRINGWIDTH I FONT))
                                         MAXWIDTH))
                                     do (SETQ MAXWIDTH I) finally (RETURN MAXWIDTH)
                                     ; 1 column would be taller than MAXHEIGHT, or the title is more
                                     ; than 50% wider than the widest item
                                     (LET [(NCOLUMNS (MAX 2 (CL:CEILING TOTALHEIGHT MAXHEIGHT)
                                                             (CL:VALUES NCOLUMNS (\MAKE.ITEMS.VERT.ORDER ITEMS (CL:CEILING NITEMS NCOLUMNS)
                                                                 NCOLUMNS)))
                                     else (CL:VALUES 1 ITEMS])

```

(\LAFITE.MAKE.FOLDER.MENU

```

[LAMBDA (ITEMS TITLE) ; Edited 13-Apr-89 15:02 by bvm
  ;; Make a folders menu out of ITEMS.
  [OR TITLE (SETQ TITLE (CONCAT "Folders on " (L-CASE (fetch PACKEDHOST&DIR \LAFITEDEFAULTHOST&DIR)
  (CL:MULTIPLE-VALUE-BIND (NCOLUMNS ITEMS)
    (\LAFITE.ARRANGE.MENU ITEMS LAFITE.FOLDER.MENU.FONT (- SCREENHEIGHT (FONTPROP WINDOWTITLEFONT 'HEIGHT))
      TITLE)
    (create MENU
      ITEMS _ ITEMS
      MENCOLUMNS _ NCOLUMNS
      TITLE _ TITLE
      CENTERFLG _ T
      MENUFONT _ (OR LAFITE.FOLDER.MENU.FONT MENUFONT)))]

```

(LAFITE.SELECT.FOLDERS

```

[LAMBDA (PRESELECTED NILOK) ; Edited 8-May-89 16:43 by bvm
  ;; Offer menu of folders, return all folders selected. If NILOK is true, then return :ABORT if aborted, else just NIL.
  (LET [(RESULT (LAFITE.SELECT.MULTIPLE (CDR LAFITEMAILFOLDERS)
    PRESELECTED NIL NIL 'LAFITEMULTIPLEFOLDERSMENU)
        (AND (OR NILOK (NEQ RESULT :ABORT))
              RESULT)])

```

(LAFITE.SELECT.MULTIPLE

[LAMBDA (ITEMS PRESELECTED TITLE PROMPT MENUVAR) ; Edited 8-May-89 16:41 by bvm

;; Put up a menu containing ITEMS, with PRESELECTED among them already shaded. Let user select multiply from the menu, and return a list of the selected items. MENUVAR optionally caches the menu from last time--you must clear it whenever ITEMS changes.

```
(LET ((MENUW (AND MENUVAR (EVALV MENUVAR)))
      MENU OLDSHADED)
  (if (NULL MENUW)
      then (SETQ MENU (\LAFITE.MAKE.FOLDER.MENU [APPEND ITEMS (CONS LAFITE.SPACER.MENU.ITEM
                                                                    ' ("--OK--" :DONE "Click here when
                                                                    selection is satisfactory")
                                                                    ("--Abort--" :ABORT "Click here to
                                                                    abort selection."])
                                                                    TITLE))
          (replace (MENU MENUTITLEFONT) of MENU with WINDOWTITLEFONT)
          (replace (MENU WHENSELECTEDFN) of MENU with (FUNCTION \LAFITE.HANDLE.MULTIPLE.SELECTION))
          (SETQ MENUW (MENUWINDOW MENU))
          (if MENUVAR
              then (SET MENUVAR MENUW))
          else [SETQ OLDSHADED (COLLECT.SHADED.ITEMS (SETQ MENU (CAR (WINDOWPROP MENUW 'MENU)
                                                                    (if (LISTGET (fetch (MENU MENUUSERDATA) of MENU)
                                                                    'RESULT)
                                                                    then ; Erase any old result
                                                                    (LISTPUT (fetch (MENU MENUUSERDATA) of MENU)
                                                                    'RESULT NIL)))]
          [if PRESELECTED
              then [SETQ PRESELECTED (for ITEM in (fetch (MENU ITEMS) of MENU) collect ITEM
                                                                    when (AND (NLISTP ITEM)
                                                                    (CL:MEMBER ITEM PRESELECTED :TEST 'STRING-EQUAL)
                                                                    (if OLDSHADED
                                                                    then (SETQ OLDSHADED (CL:SET-DIFFERENCE OLDSHADED PRESELECTED :TEST 'EQ)
                                                                    (for ITEM in OLDSHADED do (SHADEITEM ITEM MENU 0))
                                                                    (CL:UNWIND-PROTECT
                                                                    (LET (RESULT)
                                                                    (ALLOW.BUTTON.EVENTS)
                                                                    (TTY.PROCESS (THIS.PROCESS)) ; To avoid caret fights
                                                                    [MOVEW MENUW (MIN LASTMOUSEX (- SCREENWIDTH (fetch (MENU IMAGEWIDTH) of MENU)))
                                                                    (MIN LASTMOUSEY (- SCREENHEIGHT (fetch (MENU IMAGEHEIGHT) of MENU)
                                                                    ; Move window to cursor position
                                                                    (OPENW MENUW)
                                                                    (if PROMPT
                                                                    then (CLRSPROMPT)
                                                                    (PRINTOUT PROMPTWINDOW PROMPT T "Click OK when finished."))
                                                                    (if (OR OLDSHADED PRESELECTED)
                                                                    then ; Have to get the shading to take effect
                                                                    (REDISPLAYW MENUW))
                                                                    (until (SETQ RESULT (LISTGET (fetch (MENU MENUUSERDATA) of MENU)
                                                                    'RESULT))
                                                                    do (BLOCK)
                                                                    (TOTOPW MENUW))
                                                                    (if (EQ RESULT :DONE)
                                                                    then (COLLECT.SHADED.ITEMS MENU)
                                                                    else ; Return keyword, such as :ABORT
                                                                    RESULT))
                                                                    (CLOSEW MENUW)
                                                                    (TTY.PROCESS T)
                                                                    (if PROMPT
                                                                    then (CLRSPROMPT)))]])
          (CL:UNWIND-PROTECT
          (LET (RESULT)
          (ALLOW.BUTTON.EVENTS)
          (TTY.PROCESS (THIS.PROCESS)) ; To avoid caret fights
          [MOVEW MENUW (MIN LASTMOUSEX (- SCREENWIDTH (fetch (MENU IMAGEWIDTH) of MENU)))
          (MIN LASTMOUSEY (- SCREENHEIGHT (fetch (MENU IMAGEHEIGHT) of MENU)
          ; Move window to cursor position
          (OPENW MENUW)
          (if PROMPT
          then (CLRSPROMPT)
          (PRINTOUT PROMPTWINDOW PROMPT T "Click OK when finished."))
          (if (OR OLDSHADED PRESELECTED)
          then ; Have to get the shading to take effect
          (REDISPLAYW MENUW))
          (until (SETQ RESULT (LISTGET (fetch (MENU MENUUSERDATA) of MENU)
          'RESULT))
          do (BLOCK)
          (TOTOPW MENUW))
          (if (EQ RESULT :DONE)
          then (COLLECT.SHADED.ITEMS MENU)
          else ; Return keyword, such as :ABORT
          RESULT))
          (CLOSEW MENUW)
          (TTY.PROCESS T)
          (if PROMPT
          then (CLRSPROMPT)))]])
```

(\LAFITE.HANDLE.MULTIPLE.SELECTION

[LAMBDA (ITEM MENU KEY) ; Edited 12-Apr-89 17:58 by bvm

```
(if (AND (LISTP ITEM)
        (CL:KEYWORDP (CADR ITEM)))
    then ; done
    (push (fetch (MENU MENUUSERDATA) of MENU)
          'RESULT
          (CADR ITEM))
    else ; Select or unselect an item
    (SHADEITEM ITEM MENU (SELECTQ (CDR (ASSOC (\ItemNumber ITEM (fetch (MENU ITEMS) of MENU))
                                              (fetch (MENU SHADEDITEMS) of MENU)))
                                ((NIL 0) ; Not yet selected
                                LAFITEHARDCOPYBATCHSHADE)
                                0))
```

(COLLECT.SHADED.ITEMS

[LAMBDA (MENU) ; Edited 29-Aug-88 12:38 by bvm

```
;; Return a list of the items currently shaded in MENU
(for PAIR in (fetch (MENU SHADEDITEMS) of MENU) bind (ITEMS _ (fetch (MENU ITEMS) of MENU))
  unless (EQ (CDR PAIR)
            0)
  collect (CAR (NTH ITEMS (CAR PAIR)))
```

)

(RPAQ? LAFITE.2COLUMN.MENU.MIN.ITEMS 10)

(RPAQ? LAFITEFOLDERSMENU)

(RPAQ? LAFITEMULTIPLEFOLDERSMENU)

(ADDOVAR LAFITEMENUVARS LAFITEFOLDERSMENU LAFITEMULTIPLEFOLDERSMENU)

:: Name hacking

(DEFINEQ

(LA.LONGFILENAME

[LAMBDA (FILENAME EXT UNPACKEDHOST&DIR HOST.ABBREVS UNPACKEDFLG) ; Edited 18-Apr-89 15:44 by bvm

:: Composes a (nearly) full-specified filename, filling in defaults from \LAFITEDEFAULTHOST&DIR

```

(LET* ((FILEFIELDS (OR (LISTP FILENAME)
                        (UNPACKFILENAME.STRING FILENAME)))
      (FIRSTFIELD (CAR FILEFIELDS))
      (QUALTAIL SYNONYM SYNFIELDS)
      (if [AND (EQ FIRSTFIELD 'DEVICE)
              (SETQ SYNONYM (for PAIR in (OR HOST.ABBREVS (CDR \LAFITE.PSEUDO.DEVICES))
                                         bind (DEV _ (CADR FILEFIELDS)) thereis (CL:MEMBER DEV (CAR PAIR)
                                                                                       :TEST
                                                                                       'STRING-EQUAL)]
              then
                (SETQ SYNFIELDS (APPEND (CDR SYNONYM)))
                (SETQ FILEFIELDS (CDDR FILEFIELDS))
                (if (AND (EQ (CAR FILEFIELDS)
                            'DIRECTORY)
                        (LISTGET SYNFIELDS 'DIRECTORY))
                    then
                      (LISTPUT SYNFIELDS 'DIRECTORY (CONCAT (LISTGET SYNFIELDS 'DIRECTORY)
                                                                ">"
                                                                (CADR FILEFIELDS)))
                      (SETQ FILEFIELDS (CDDR FILEFIELDS))
                      (SETQ FILEFIELDS (NCONC SYNFIELDS FILEFIELDS))
                      (SETQ FIRSTFIELD (CAR FILEFIELDS))
                    (OR UNPACKEDHOST&DIR (SETQ UNPACKEDHOST&DIR (fetch UNPACKEDHOST&DIR of \LAFITEDEFAULTHOST&DIR)))
                    (if [NEQ UNPACKEDHOST&DIR (SETQ QUALTAIL (find TAIL on UNPACKEDHOST&DIR by (CDDR TAIL)
                                                                suchthat (EQ (CAR TAIL)
                                                                FIRSTFIELD)]
                        then
                          ; Want default fields that do not occur in FILENAME, but only
                          ; until FILENAME shows up with any such field (so if FILENAME
                          ; has HOST, never default the directory).
                          ; I was going to write a single loop with xcl:collect, but dwim got
                          ; in the way...
                          (SETQ FILEFIELDS (NCONC (for TAIL on UNPACKEDHOST&DIR until (EQ TAIL QUALTAIL)
                                                    collect (CAR TAIL))
                                                    FILEFIELDS)))
                        [if EXT
                          then (SETQ FILEFIELDS (NCONC FILEFIELDS (LIST 'EXTENSION EXT)
                                                            (if UNPACKEDFLG
                                                                then
                                                                  FILEFIELDS
                                                                else (PACKFILENAME.STRING FILEFIELDS)]

```

(LA.SHORTFILENAME

[LAMBDA (FILE EXT KEEPVERSIONFLG) ; Edited 12-Sep-88 16:42 by bvm

:: returns that shortest file name that is compatible with \LAFITEDEFAULTHOST&DIR and EXT and no version number -- the result is used in menu
::: creation

```

(COND
  (FILE (LET ([FILEFIELDS (COND
                ((LISTP FILE) ; Already unpacked
                (APPEND FILE))
                (T (UNPACKFILENAME.STRING FILE]
            REST)
    ; Scan FILEFIELDS to see if it has a prefix matching either the default host&dir or one of our funny synonyms.
    (for SYNONYM in \LAFITE.PSEUDO.DEVICES
      when (for (FILETAIL _ FILEFIELDS)
              (SYNTAIL _ (CDR SYNONYM))
            do (if (NULL SYNTAIL)
                  then ; Matched completely
                    (RETURN (SETQ FILEFIELDS (SETQ REST FILETAIL)))
                  elseif [AND (EQ (CAR FILETAIL)
                                   (CAR SYNTAIL))
                            (STRING-EQUAL (CAR (SETQ FILETAIL (CDR FILETAIL)))
                                           (CAR (SETQ SYNTAIL (CDR SYNTAIL)))
                          then ; Matched that field, keep going

```

```

      (SETQ FILETAIL (CDR FILETAIL))
      (SETQ SYNTAIL (CDR SYNTAIL))
    else (RETURN NIL))
  do (if (CAR SYNONYM)
        then
          ; NIL is for default host & dir
          (push FILEFIELDS 'DEVICE (CAAR SYNONYM))
        (RETURN))
  finally
    (for (DEFAULTTAIL _ (fetch UNPACKEDHOST&DIR of \LAFITEDEFAULTHOST&DIR))
      while [AND DEFAULTTAIL (EQ (CAR FILEFIELDS)
                                (CAR DEFAULTTAIL))
            (STRING-EQUAL (CADR FILEFIELDS)
                          (CAR (SETQ DEFAULTTAIL (CDR DEFAULTTAIL))
                              ; Pop off the matching fields
                              (SETQ FILEFIELDS (CDDR FILEFIELDS))
                              (SETQ DEFAULTTAIL (CDR DEFAULTTAIL)))
                          (SETQ REST FILEFIELDS))]
      do
        ; Scan the rest of the name to worry about extension and version
        ; defaulting
        (if (SELECTQ (pop REST)
                    (EXTENSION (AND EXT (STRING-EQUAL (CAR REST)
                                                       EXT)))
                    (VERSION (NOT KEEPVERSIONFLG))
                    NIL)
          then
            ; Remove a field from the result
            (RPLACA REST NIL))
          (SETQ REST (CDR REST)))
      (PACKFILENAME.STRING FILEFIELDS])

```

(FORGETMAILFILE

[LAMBDA (FILENAME) ; Edited 7-Sep-88 18:14 by bvm

;;; removes FILENAME from the list of known mail files and invalidates the menu cache

```

(LET [(KNOWNFILE (OR (find F in (CDR LAFITEMAILFOLDERS) suchthat (STRING-EQUAL F FILENAME))
                    (find F in (CDR LAFITEMAILFOLDERS) bind (SHORTNAME _ (LA.SHORTFILENAME FILENAME
                                                                    LAFITEMAIL.EXT))
                    suchthat (STRING-EQUAL F SHORTNAME)]
      (COND
        (KNOWNFILE (\LAFITE.FOLDER.NAME.CHANGED KNOWNFILE]))

```

(\LAFITE.FOLDER.NAME.CHANGED

[LAMBDA (OLDNAME NEWNAME) ; Edited 8-May-89 15:44 by bvm

;; Called when a folder named OLDNAME has been renamed to NEWNAME, or deleted in the case where NEWNAME is NIL, or introduced in the
;; case where OLDNAME is NIL.

```

(if OLDNAME
  then
    ; Fix auto-move menus containing this one
    (for FOLDER in \ACTIVE\LAFITE\FOLDERS bind ITEMS FOUND WINDOW
      when [AND (SETQ WINDOW (fetch (MAILFOLDER BROWSERWINDOW) of FOLDER))
              (SETQ ITEMS (WINDOWPROP WINDOW 'LAFITE.AUTO.MOVE.NAMES))
              (SETQ FOUND (CL:MEMBER OLDNAME ITEMS :TEST 'STRING-EQUAL))]
      do
        ; Remove from the auto-move menu
        (WINDOWPROP WINDOW 'LAFITE.AUTO.MOVE.NAMES (if NEWNAME
              then (DSUBST NEWNAME (CAR FOUND)
                            ITEMS)
              else (DREMOVE (CAR FOUND)
                            ITEMS)))
        (\LAFITE.UPDATE.MOVE.MENU FOLDER)))
    (RPLACD LAFITEMAILFOLDERS (\LAFITE.CHANGE.NAME.IN.LIST (CDR LAFITEMAILFOLDERS)
                  OLDNAME NEWNAME))
    (for GROUP in LAFITE.FOLDER.STRUCTURE when (CL:MEMBER OLDNAME (fetch FGFOLDERS of GROUP)
                  :TEST 'STRING-EQUAL)
      do (replace FGFOLDERS of GROUP with (\LAFITE.CHANGE.NAME.IN.LIST (fetch FGFOLDERS of GROUP)
                  OLDNAME NEWNAME)))
    (SETQ LAFITEFOLDERSMENU (SETQ LAFITEMULTIPLEFOLDERSMENU NIL))
    (SETQ \LAFITEPROFILECHANGED T])

```

(\LAFITE.CHANGE.NAME.IN.LIST

[LAMBDA (FOLDERS OLDNAME NEWNAME) ; Edited 29-Aug-89 11:10 by bvm

;; Return FOLDERS with OLDNAME replace with NEWNAME (or deleted if new = nil)

```

[if OLDNAME
  then (SETQ FOLDERS (CL:DELETE OLDNAME FOLDERS :TEST 'STRING-EQUAL))
  (if NEWNAME
    then (CL:MERGE 'LIST (LIST NEWNAME)
                  FOLDERS
                  (FUNCTION UALPHORDER))
    else FOLDERS])

```

(\LAFITE.RECOMPUTE.FOLDER.NAMES

[LAMBDA (OLDABBREVS) ; Edited 8-May-89 15:45 by bvm


```

"Notice mail folders on directory: ")
WINDOW GEN FILE NEWFILES NEWCASEFILES OLDCASEFILES FOUND)
(COND
  (PATTERN [SETQ PATTERN (PACKFILENAME.STRING (APPEND (LA.LONGFILENAME (PACKFILENAME.STRING
    'BODY PATTERN
    'NAME
    '*))
    LAFITEMAIL.EXT NIL NIL T)
    ' (VERSION "")
    ; Default to *.MAIL;
  (SETQ WINDOW (\LAFITE.MAKE.RANDOM.DISPLAY "Noticed Mail Folders" PATTERN
    (CONCAT "Enumerating " PATTERN "...
    "))))
  [SETQ GEN (\GENERATEFILES PATTERN NIL ' (RESETLST)]
  (COND
    ((NULL (SETQ FILE (\GENERATENEXTFILE GEN)))
      (printout WINDOW T "No matching files found.))
    (T (do (if [NOT (SETQ FOUND (CL:MEMBER (SETQ FILE (LA.SHORTFILENAME FILE
      LAFITEMAIL.EXT))
      (CDR LAFITEMAILFOLDERS)
      :TEST
      'STRING-EQUAL]
      ; New file
      then
        (push NEWFILES FILE)
        (printout WINDOW FILE " ")
      elseif (NOT (STREQUAL (CAR FOUND)
        FILE))
      then
        ; New case or canonicalization
        (push NEWCASEFILES (CONS (CAR FOUND)
          FILE)))
      repeatwhile (SETQ FILE (\GENERATENEXTFILE GEN)))
    (if (NULL (OR NEWFILES NEWCASEFILES))
      then (printout WINDOW T "No new files found.")
      elseif (\LAFITE.GC.FOLDERS.CONFIRM WINDOW (CONCAT (if NEWCASEFILES
        then (CL:FORMAT NIL "~:[No
          new files,
          but~;~%%Also~]
          found new
          canonical names
          for ~D existing
          folders.~%%"
          NEWFILES
          (LENGTH
            NEWCASEFILES
          ))
        else ""))
        "Click Confirm to add these
        folders to set of known folders.))
      then (\LAFITE.CHANGE.FOLDER.LIST NEWFILES NEWCASEFILES NIL WINDOW)
      else (printout WINDOW T "Aborted.]]))

```

(\LAFITE.GC.FOLDERS

; Edited 12-Apr-89 16:35 by bvm

```

[LAMBDA NIL
  (LET ((*UPPER-CASE-FILE-NAMES* NIL)
    (WINDOW (\LAFITE.MAKE.RANDOM.DISPLAY "Folders no longer found" (CAR \LAFITEDEFAULTHOST&DIR))
      (OLDFILES (CDR LAFITEMAILFOLDERS))
      FOUND NOTFOUND NEWCASEFILES)
    (printout WINDOW "Scanning...")
    [for F in OLDFILES do (printout WINDOW ".")
      (if [NULL (SETQ FOUND (INFILEP (LA.LONGFILENAME F LAFITEMAIL.EXT)
        then (printout WINDOW T F " not found.")
        (push NOTFOUND F)
      elseif (NOT (STREQUAL (SETQ FOUND (LA.SHORTFILENAME FOUND LAFITEMAIL.EXT))
        F))
      then
        ; Different case
        (push NEWCASEFILES (CONS F FOUND])
    (COND
      ((NULL (OR NOTFOUND NEWCASEFILES))
        (printout WINDOW T "All known folders still exist.))
      ((\LAFITE.GC.FOLDERS.CONFIRM WINDOW (CONCAT (if NEWCASEFILES
        then (CL:FORMAT NIL "~:[All folders exist,
          but~;~%%Also~] found new canonical names
          for ~D folders.~%%" NOTFOUND (LENGTH
            NEWCASEFILES
          ))
        else ""))
        "Click Confirm to make these changes to the set of known
        folders.))
      (\LAFITE.CHANGE.FOLDER.LIST NIL NEWCASEFILES NOTFOUND WINDOW))
      (T (printout WINDOW T "Aborted"))

```

(\LAFITE.GC.FOLDERS.CONFIRM

[LAMBDA (TEXTSTREAM PROMPT)

; Edited 20-Apr-89 19:36 by bvm

::: Wait for confirming response from Proceed/Abort menu before changing folders menu. PROMPT is instructions to issue in TEXTSTREAM

```
(TEDIT.SETSEL TEXTSTREAM (GETEOFPTR TEXTSTREAM)
  0
  'RIGHT)
(TEDIT.NORMALIZECARET TEXTSTREAM) ; This makes the last line visible, I hope
(printout TEXTSTREAM T T PROMPT)
(PROG1 (MENU (create MENU
  ITEMS _ ' ("Confirm" T "Yes, change the folder menu as indicated."
            ("Abort" NIL "No, take no action"))
  MENUROWS _ 1
  CENTERFLG _ T
  MENUFONT _ LAFITEMENUFONT
  MENUBORDERSIZE _ 2)
 [LA.POSITION.FROM.REGION (WINDOWPROP (LA.WINDOW.FROM.TEXTSTREAM TEXTSTREAM)
                                     'REGION)
  NIL
  (- (+ 2 (FONTPROP LAFITEMENUFONT 'HEIGHT)
  T)
 (SETFILEPTR TEXTSTREAM -1])
```

(\LAFITE.MAKE.RANDOM.DISPLAY

```
[LAMBDA (TITLE SAMPLESTRING INITIALCONTENT) ; Edited 7-Feb-2022 11:59 by rmk
; Edited 23-Aug-88 14:54 by bvm
(LET ((REG (WINDOWREGION LAFITESTATUSWINDOW))
      (HEIGHT (HEIGHTIFWINDOW (TIMES 6 (FONTPROP NIL 'HEIGHT)
      T))
      BOTTOM WINDOW)
 [SETQ WINDOW (OPENTEXTSTREAM (OPENSTRINGSTREAM INITIALCONTENT)
 (CREATEW (MAKEWITHINREGION (create REGION
 LEFT _ (fetch (REGION LEFT) of REG)
 BOTTOM _ (COND
 ((< (SETQ BOTTOM
 (- (fetch (REGION BOTTOM)
 of REG)
 HEIGHT))
 0)
 ; tried placing it below status window, but that's off screen
(fetch (REGION TOP) of REG))
 (T BOTTOM))
 WIDTH _ [IMAX (FIXR (TIMES 1.5 (STRINGWIDTH
 SAMPLESTRING
 )))
 (TIMES 64 (CHARWIDTH (CHARCODE
 M)
 HEIGHT _ HEIGHT))
 TITLE)
 NIL NIL ' (PROMPTWINDOW DON'T)
 (SETFILEPTR WINDOW -1)
 (LINELENGTH MAX.SMALLP WINDOW)
 WINDOW])
```

(\LAFITE.CHANGE.FOLDER.LIST

```
[LAMBDA (NEWFILES NEWCASEFILES NOTFOUND TEXTSTREAM) ; Edited 12-Apr-89 16:34 by bvm
:: Change Lafite's set of folders by adding NEWFILES, removing NOTFOUND and renaming each (oldname . newname) in NEWCASEFILES.
:: Outputs "Done" to optional TEXTSTREAM
(for FILE in NEWFILES do ; add these
(\LAFITE.FOLDER.NAME.CHANGED NIL FILE))
(for FILE in NOTFOUND do ; forget these
(\LAFITE.FOLDER.NAME.CHANGED FILE NIL))
(for FILE in NEWCASEFILES do ; Fix case on these
(\LAFITE.FOLDER.NAME.CHANGED (CAR FILE)
(CDR FILE)))
(if TEXTSTREAM
 then ; Use TEDIT.INSERT here instead of printout to insure that
; scrolling occurs if needed.
(TEDIT.INSERT TEXTSTREAM "
Done." (ADD1 (GETEOFPTR TEXTSTREAM]))
```

(\LAFITE.RENAME.FOLDER

```
[LAMBDA NIL ; Edited 2-Nov-89 17:59 by bvm
(RESETLST
 [LET ((*UPPER-CASE-FILE-NAMES* NIL)
      (FOLDERNAME (\LAFITE.PROMPTFORFOLDER))
      FULLNAME NEWNAME FOLDER TOC NEWFULLNAME NEWSHORTNAME)
 (if (OR (NULL FOLDERNAME)
 [NULL (SETQ NEWNAME (PROMPTFORFILENAME NIL FOLDERNAME (CONCAT "Rename "
 (UNPACKFILENAME.STRING
 FOLDERNAME
 'NAME)
 " to be: ")
 (STREQUAL NEWNAME FOLDERNAME))
```

```

    then (PRINTOUT PROMPTWINDOW T FOLDERNAME " not renamed.")
  elseif [NULL (SETQ FULLNAME (INFILEP (LA.LONGFILENAME FOLDERNAME LAFITEMAIL.EXT)
    then (PRINTOUT PROMPTWINDOW T "Can't find " FOLDERNAME)
  else (PRINTOUT PROMPTWINDOW T "Renaming " FULLNAME "...")
    (SETQ NEWNAME (LA.LONGFILENAME NEWNAME LAFITEMAIL.EXT))
    (if (SETQ FOLDER (LAFITE.OBTAIN.FOLDER FULLNAME))
      then (OBTAIN.MONITORLOCK (fetch FOLDERLOCK of FOLDER)
        NIL T)
        (\LAFITE.CLOSE.FOLDER FOLDER T))
    (if (NULL (SETQ NEWFULLNAME (RENAMEFILE FULLNAME NEWNAME)))
      then (PRINTOUT PROMPTWINDOW " failed.")
    else (PRINTOUT PROMPTWINDOW T " to " NEWFULLNAME)
      (if (SETQ TOC (INFILEP (TOCFILENAME FULLNAME)))
        then (PRINTOUT PROMPTWINDOW T "Renaming toc file...")
          (if (NOT (RENAMEFILE TOC (TOCFILENAME NEWFULLNAME)))
            then (PRINTOUT PROMPTWINDOW T "Could not rename toc file " TOC " - you may
              want to delete or rename it yourself.)))
        (SETQ NEWSHORTNAME (LA.SHORTFILENAME NEWFULLNAME LAFITEMAIL.EXT))
      (if FOLDER
        then
          ; Fix up this guy's name
          (replace (MAILFOLDER FULLFOLDERNAME) of FOLDER with NEWFULLNAME)
          (replace (MAILFOLDER VERSIONLESSFOLDERNAME) of FOLDER with (PACKFILENAME.STRING
            'VERSION NIL
            'BODY NEWFULLNAME))

          (\LAFITE.NEW.SHORT.NAME FOLDER NEWSHORTNAME))
        (\LAFITE.FOLDER.NAME.CHANGED FOLDERNAME NEWSHORTNAME)
        (PRINTOUT PROMPTWINDOW " done.")]])

```

(\LAFITE.ADD.NEW.GROUP

```

[LAMBDA (SUPERGROUP) ; Edited 8-May-89 16:51 by bvm
  (LET ((GROUP (PROMPTFORFILENAME NIL NIL "Name of new group (CR to abort): ")
    MEMBERS)
    (if (AND GROUP (\LAFITE.CHECK.GROUP.NAME GROUP)
      (NEQ (SETQ MEMBERS (\LAFITE.SELECT.GROUP.FOLDERS GROUP))
        :ABORT))
      then [if SUPERGROUP
        then (SETQ SUPERGROUP (LAFITE.FIND.GROUP SUPERGROUP))
          (replace FGSUBGROUPS of SUPERGROUP with (MERGE (fetch FGSUBGROUPS of SUPERGROUP)
            (LIST GROUP)
            (FUNCTION UALPHORDER)
            (SETQ LAFITE.FOLDER.STRUCTURE (MERGE LAFITE.FOLDER.STRUCTURE
              (LIST (create FOLDERGROUP
                FGNAME _ GROUP
                FGTOPELVEL _ (NOT SUPERGROUP)
                FGFOLDERS _ MEMBERS))
                (FUNCTION UALPHORDERCAR)))
            (SETQ \LAFITEPROFILECHANGED T)
            (SETQ LAFITEFOLDERSMENU)))
        NIL])

```

(\LAFITE.CHECK.GROUP.NAME

```

[LAMBDA (NAME) ; Edited 8-May-89 15:53 by bvm
  ;; Verify that NAME is not yet the name of a group. Return NAME if unique, NIL if it already exists.
  (LET ((FOUND (LAFITE.FIND.GROUP NAME)))
    (if FOUND
      then (printout PROMPTWINDOW T "There's already a group named " (fetch FGNAME of FOUND)
        ".")
      NIL
    else NAME])

```

(\LAFITE.CHANGE.GROUP.MEMBERS

```

[LAMBDA (NAME) ; Edited 8-May-89 15:53 by bvm
  (LET* [(GROUP (LAFITE.FIND.GROUP NAME))
    (NEWMEMBERS (\LAFITE.SELECT.GROUP.FOLDERS NAME (fetch FGFOLDERS of GROUP))
    (if (NEQ NEWMEMBERS :ABORT)
      then (replace FGFOLDERS of GROUP with (SORT NEWMEMBERS (FUNCTION UALPHORDER)))
        (SETQ \LAFITEPROFILECHANGED T)
        (SETQ LAFITEFOLDERSMENU)))
    NIL])

```

(\LAFITE.SELECT.GROUP.FOLDERS

```

[LAMBDA (GROUPNAME PRESELECTED) ; Edited 8-May-89 16:42 by bvm
  ;; Like LAFITE.SELECT.FOLDERS, but called to select a subset of folders to put in group GROUPNAME.
  (LAFITE.SELECT.MULTIPLE (LET* [(ALLFOLDERS (CDR LAFITEMAILFOLDERS))
    (GROUPED (CL:REMOVE-DUPLICATES (for GROUP in LAFITE.FOLDER.STRUCTURE
      join (APPEND (fetch FGFOLDERS of GROUP)))
      :TEST
      'STRING-EQUAL))
    (UNGROUPED (AND (> (LENGTH ALLFOLDERS)
      (LENGTH GROUPED))
      (CL:SET-DIFFERENCE ALLFOLDERS GROUPED :TEST 'STRING-EQUAL)

```

```

; The LENGTH check is an optimization to skip the
; SET-DIFFERENCE call when everybody is in a group.
      (if UNGROUPED
        then
          ; Show the ungrouped ones in a clump to make it easier to see
          ; which folders still need to be classified
          (NCONC UNGROUPED (LIST LAFITE.SPACER.MENU.ITEM)
            (SORT GROUPED (FUNCTION UALPHORDER)))
        else ALLFOLDERS))
PRESELECTED
(CONCAT "Folders in group " GROUPNAME)
(CL:FORMAT NIL "Select which folders should belong to ~A." GROUPNAME])

```

(\LAFITE.CHANGE.SUBGROUPS

; Edited 8-May-89 16:41 by bvm

```

[LAMBDA (NAME)
  (LET* [(GROUP (LAFITE.FIND.GROUP NAME))
        (CANDIDATES (MAPCAR (CL:REMOVE GROUP LAFITE.FOLDER.STRUCTURE)
          (FUNCTION CAR))
        (if CANDIDATES
          then (LET [(NEWMEMBERS (LAFITE.SELECT.MULTIPLE CANDIDATES (fetch FGSUBGROUPS of GROUP)
            (CONCAT "Subgroups of " NAME)
            (CL:FORMAT NIL "Select which groups should lie below ~A in the
              folder hierarchy." NAME))
          (if (NEQ NEWMEMBERS :ABORT)
            then (replace FGSUBGROUPS of GROUP with (SORT NEWMEMBERS (FUNCTION UALPHORDER)))
              (SETQ \LAFITEPROFILECHANGED T)
              (SETQ LAFITEFOLDERSMENU))
            else (PROMPTPRINT "No other groups are yet defined."))

```

(\LAFITE.CHANGE.TOP.GROUPS

; Edited 8-May-89 16:43 by bvm

```

[LAMBDA NIL
  (if LAFITE.FOLDER.STRUCTURE
    then (LET ((NEWTOP (LAFITE.SELECT.MULTIPLE (for GROUP in LAFITE.FOLDER.STRUCTURE
      collect (fetch FGNAME of GROUP))
      (for GROUP in LAFITE.FOLDER.STRUCTURE when (fetch FGTOPLEVEL of GROUP)
      collect (fetch FGNAME of GROUP))
      "Top level groups" "Select which groups should appear in the top-level folder
      menu.")))
    (if (NEQ NEWTOP :ABORT)
      then (for GROUP in LAFITE.FOLDER.STRUCTURE
        do (replace FGTOPLEVEL of GROUP with (AND (CL:MEMBER (fetch FGNAME of GROUP)
          NEWTOP :TEST 'STRING-EQUAL)
          T)))
        (SETQ \LAFITEPROFILECHANGED T)
        (SETQ LAFITEFOLDERSMENU))
      else (PROMPTPRINT "No groups are yet defined."))

```

(\LAFITE.DELETE.GROUP

; Edited 8-May-89 15:54 by bvm

```

[LAMBDA (NAME)
  (LET ((GROUP (LAFITE.FIND.GROUP NAME)))
    (if (AND GROUP (MOUSECONFIRM (CONCAT "Click LEFT to confirm deleting group " NAME)
      ""))
      then [for OTHER in (SETQ LAFITE.FOLDER.STRUCTURE (DREMOVE GROUP LAFITE.FOLDER.STRUCTURE))
        bind FOUND when (SETQ FOUND (CL:MEMBER NAME (fetch FGSUBGROUPS of OTHER)
          :TEST
          'STRING-EQUAL))
          ; Remove this as subgroup
          (replace FGSUBGROUPS of OTHER with (DREMOVE (CAR FOUND)
            (fetch FGSUBGROUPS of OTHER))
            (SETQ \LAFITEPROFILECHANGED T)
            (SETQ LAFITEFOLDERSMENU])

```

(\LAFITE.RENAME.GROUP

; Edited 8-May-89 15:54 by bvm

```

[LAMBDA (OLDNAME NEWNAME)
  (if (AND [OR NEWNAME (SETQ NEWNAME (PROMPTFORFILENAME NIL OLDNAME (CONCAT "New name for group " OLDNAME
    " (CR to abort): "])
    (OR (STRING-EQUAL NEWNAME OLDNAME)
      (\LAFITE.CHECK.GROUP.NAME NEWNAME)))
    then (LET ((OLDGROUP (LAFITE.FIND.GROUP OLDNAME))
      FOUND)
      (if (NULL OLDGROUP)
        then (PRINTOUT PROMPTWINDOW T "Group " OLDNAME " not found.")
        else (replace FGNAME of OLDGROUP with NEWNAME)
          (for GROUP in (SORT LAFITE.FOLDER.STRUCTURE (FUNCTION UALPHORDERCAR))
            when (SETQ FOUND (CL:MEMBER OLDNAME (fetch FGSUBGROUPS of GROUP)
              :TEST
              'STRING-EQUAL))
              do (SORT (DSUBST NEWNAME (CAR FOUND)
                (fetch FGSUBGROUPS of GROUP))
                (FUNCTION UALPHORDER)))
                (SETQ \LAFITEPROFILECHANGED T)
                (SETQ LAFITEFOLDERSMENU)
                (PRINTOUT PROMPTWINDOW T "Group " OLDNAME " renamed to " NEWNAME])

```

(\LAFITE.EDIT.HIERARCHY

```

[LAMBDA NIL
  (if (NULL LAFITE.FOLDER.STRUCTURE)
    then (\LAFITE.ADD.NEW.GROUP)
    else (LET [(GROUP (MENU (create MENU
      ITEMS _ (NCONC1 (MAPCAR LAFITE.FOLDER.STRUCTURE (FUNCTION CAR))
        ' ("**New Group**" :NEW "Define a new folder group"))
      CENTERFLG _ T
      TITLE _ "Edit which group?"]
      (if (EQ GROUP :NEW)
        then (\LAFITE.ADD.NEW.GROUP)
        elseif GROUP
          then (LET [(CMD (MENU (.LAFITEMENU. LAFITE.GROUP.COMMANDS.MENU LAFITE.GROUP.COMMANDS
            "Change group how?")
            (AND CMD (CL:FUNCCALL CMD GROUP))

```

; Edited 13-Apr-89 14:43 by bvm

(LAFITE.FIND.GROUP

```

[LAMBDA (NAME)
  ;; Return the FOLDERGROUP object named NAME.
  (CL:ASSOC NAME LAFITE.FOLDER.STRUCTURE :TEST 'STRING-EQUAL])

```

; Edited 8-May-89 15:51 by bvm

(UALPHORDERCAR

```

[LAMBDA (X Y)
  (ALPHORDER (CAR X)
    (CAR Y)
    UPPERCASEARRAY))

```

; Edited 13-Apr-89 14:38 by bvm

```

(RPAQQ LAFITE.SPACER.MENU.ITEM (———— NIL "(this is not a choice)"))

```

```

(RPAQQ LAFITE.GROUP.COMMANDS
  (("Delete Group" '\LAFITE.DELETE.GROUP "Remove this group from the hierarchy")
  ("Rename Group" '\LAFITE.RENAME.GROUP "Change the name of this group")
  ("Change Members" '\LAFITE.CHANGE.GROUP.MEMBERS "Change the membership of this group")
  ("Change Subgroups" '\LAFITE.CHANGE.SUBGROUPS "Change the subgroups of this group")
  ("Create Subgroup" '\LAFITE.ADD.NEW.GROUP "Create a new group and make it a subgroup of this group")))

```

```

(RPAQQ LAFITE.GROUP.COMMANDS.MENU NIL)

```

```

(DECLARE%: EVAL@COMPILE DONTCOPY

```

```

(FILESLoad (SOURCE)
  LAFITE-DECLS)

```

```

(DECLARE%: DOEVAL@COMPILE DONTCOPY

```

```

(LOCALVARS . T)
)

```

```

(DECLARE%: DOEVAL@COMPILE DONTCOPY

```

```

(GLOBALVARS MENUFONT LAFITE.GROUP.COMMANDS.MENU LAFITE.GROUP.COMMANDS)
)

```

```

(CL:PROCLAIM ' (CL:SPECIAL *LA.ABBREVS.IN.PROFILE*))
)

```

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LAFITE.PROFILE.VARS	4	LAFITEMULTIPLEFOLDERSMENU	7		
