

File created: 4-Mar-87 17:04:08 {PHYLUM}<LISPUSERS>KOTO>ARCHIVEBROWSER.;3

changes to: (VARS ARCHIVEBROWSERCOMS)  
(FNS AB.Delete.Command AB.Retrieve.Command AB.Retrieve.Directory.Command AB.Retrieve.Renamed.Aux  
AB.Undelete.Command AB ARCHIVEBROWSER AB.Make.Cedar.Filename AB.Retrieve.Renamed.Command)

previous date: 22-Sep-86 13:12:01 {QV}<BRIGGS>LISP>ARCHIVEBROWSER.;4

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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## (RPAQQ ARCHIVEBROWSERCOMS

```
[( * * the user's interface to the archive browser)
 (FNS ARCHIVEBROWSER AB)
 (* * command processing functions)
 (FNS AB.When.Selected.Fn AB.Command.Fn AB.Delete.Command AB.Expunge.Command AB.Filter.Command
 AB.Recompute.Command AB.Retrieve.Command AB.Retrieve.Directory.Command AB.Retrieve.Renamed.Command
 AB.Retrieve.Renamed.Aux AB.Sort.Command AB.Undelete.Command)
 (* * miscellaneous functions)
 (FNS AB.Set.Browser.Title AB.Iconfn AB.Closefn AB.Printfn AB.Prompt.For.Input AB.Read.Directory
 AB.Subitemp AB.Make.Cedar.Filename)
 (* * the user that gets retrieval requests)
 (INITVARS (AB.archivist "Archivist"))
 (* * the structure for an archive entry)
 (RECORDS AB.item)
 (* * the icon)
 (BITMAPS AB.icon AB.icon.mask)
 [INITVARS (AB.titled.icon (create TITLEDICON ICON _ AB.icon MASK _ AB.icon.mask TITLEREG _
 (CREATEREGION 7 8 60 24]
 (* * the font for the browser, which must be a fixed pitch font for now)
 (VARS (AB.browser.font (FONTCREATE (QUOTE TERMINAL)
 10)))
 (* * based on the TableBrowser package)
 (FILES TABLEBROWSER)
 (DECLARE: EVAL@COMPILE DONTCOPY (FILES TABLEBROWSERDECLS))
 (DECLARE: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS (ADDVARS (NLAMA AB)
 (NLAML)
 (LAMA]))
```

(\* \* the user's interface to the archive browser)

(DEFINEQ

## (ARCHIVEBROWSER

```
[LAMBDA (archivefilespec filter)
 (LET* [(menu (create MENU
 ITEMS _ (QUOTE ((Retrieve AB.Retrieve.Command "Retrieve selected files"
 (SUBITEMS ("Retrieve selected files" AB.Retrieve.Command
 "Retrieve selected files")
 ("Retrieve to directory" AB.Retrieve.Directory.Command
 "Retrieve selected files to a different directory")
 ("Retrieve renamed" AB.Retrieve.Renamed.Command
 "Retrieve selected files specifying new name for
 each file"))))
 (Filter AB.Filter.Command "Set filter for displayed file names")
 (Sort AB.Sort.Command "Sort entries by file name"
 (SUBITEMS ("Sort by file name" AB.Sort.Command "Sort entries by
 file name")
 ("Sort by creation date" (AB.Sort.Command CreationDate)
 "Sort entries by creation date of the file")
 ("Sort by archive date" (AB.Sort.Command Archive)
 "Sort entries by date that the file was archived")
 (Reverse (AB.Sort.Command Reverse)
 "Reverse the order of the entries"))))
 (Recompute AB.Recompute.Command "Redisplay browser items after
 re-reading archive directory" (SUBITEMS ("Same directory"
 AB.Recompute.Command
 "Redisplay browser
 items after
 re-reading archive
 directory")
 ("New directory"
 (AB.Recompute.Command T)
 "Browse a different archive
 directory"))))
 (" " NIL "do nothing - a separator")
 (Delete AB.Delete.Command "Delete selected items")
 (Undelete AB.Undelete.Command "Undelete selected items"
 (SUBITEMS ("Undelete selected items" AB.Undelete.Command
 "Undelete selected items")
 ("Undelete ALL items" (AB.Undelete.Command T))
 (* N.H.Briggs " 2-Mar-87 16:56")
```

```

                                "Undelete all deleted items"))
                                (" " NIL "do nothing - a separator so you don't accidentally Expunge")
                                (Expunge AB.Expunge.Command "Expunge deleted items and rewrite the
                                  archive directory"))
                                CENTERFLG _ T
                                TITLE _ " Commands "
                                WHENSELECTEDFN _ (QUOTE AB.When.Selected.Fn))
(promptfont (FONTCREATE (QUOTE HELVETICA)
                        10))
(promptheight (HEIGHTIFWINDOW (TIMES 2 (FONTPROP promptfont (QUOTE HEIGHT))
T))
(promptwindow)
(windowregion (GETREGION (PLUS (fetch IMAGEWIDTH of menu)
                                144)
                              (PLUS (fetch IMAGEHEIGHT of menu)
                                promptheight)))
(window (CREATEW (CREATEREGION (fetch LEFT of windowregion)
                              (fetch BOTTOM of windowregion)
                              (DIFFERENCE (fetch WIDTH of windowregion)
                                (fetch IMAGEWIDTH of menu))
                              (DIFFERENCE (fetch HEIGHT of windowregion)
                                promptheight))
  ""))
(browser (TB.MAKE.BROWSER NIL window (BQUOTE (PRINTFN AB.Printfn FONT (\, AB.browser.font]
(ATTACHMENU menu window (QUOTE RIGHT)
  (QUOTE TOP))
(TB.USERDATA browser (LIST (QUOTE ARCHIVE)
  (PACKFILENAME.STRING (QUOTE HOST)
    (OR (FILENAMEFIELD archivefilespec (QUOTE HOST))
      (FILENAMEFIELD (DIRECTORYNAME)
        (QUOTE HOST)))
    (QUOTE DIRECTORY)
    (OR (FILENAMEFIELD archivefilespec (QUOTE DIRECTORY))
      (CAR (FULLUSERNAME T)))
    (QUOTE NAME)
    (OR (FILENAMEFIELD archivefilespec (QUOTE NAME))
      (QUOTE Archive))
    (QUOTE EXTENSION)
    (OR (FILENAMEFIELD archivefilespec (QUOTE EXTENSION))
      (QUOTE directory))
    (QUOTE BODY)
    archivefilespec)
    (QUOTE FILTER)
    (OR filter "*.*)"))
  (* (use something like this if the "attic" is used) L-CASE
    (OR filter (CONCAT (CAR (FULLUSERNAME T)) ">*.*)"))
(SETQ promptwindow (GETPROMPTWINDOW window 2 (FONTCREATE (QUOTE HELVETICA)
10)))
(AB.Set.Browser.Title browser)
[WINDOWPROP promptwindow (QUOTE MINSIZE)
  (CONS 0 (fetch (REGION HEIGHT) of (WINDOWPROP promptwindow (QUOTE REGION]
[WINDOWPROP promptwindow (QUOTE MAXSIZE)
  (CONS 64000 (fetch (REGION HEIGHT) of (WINDOWPROP promptwindow (QUOTE REGION]
(LINELENGTH MAX.SMALLP promptwindow)
(WINDOWPROP window (QUOTE ICONFN)
  (FUNCTION AB.Iconfn))
(WINDOWADDPROP window (QUOTE CLOSEFN)
  (FUNCTION AB.Closefn)
T)
(AB.Command.Fn (SASSOC (QUOTE Recompute)
  (fetch (MENU ITEMS) of menu))
  menu
  (QUOTE LEFT])

```

```

(AB
  [NLAMBDA filespec% filter
    (LET ((patternandfilter (NLAMBDA.ARGs filespec% filter)))
      (ARCHIVEBROWSER (CAR patternandfilter)
        (CADR patternandfilter))
      NIL])
  (* N.H.Briggs " 4-Mar-87 12:11")
)

```

(\* \* command processing functions)

```
(DEFINEQ
```

```

(AB.When.Selected.Fn
  [LAMBDA (Item Menu Key)
    (if (AND (LISTP Item)
      (CADR Item))
      then (TB.PROCESS (LIST (FUNCTION AB.Command.Fn)
        (KQUOTE Item)
        (KQUOTE Menu)
        (KQUOTE Key))
        (PACK* (QUOTE AB-)

```

(**AB.Command.Fn**

```
[LAMBDA (item menu key)
(RESETTST
(LET* [(realitem item)
(window (WINDOWPROP (WFROMMENU menu)
(QUOTE MAINWINDOW)))
(browser (WINDOWPROP window (QUOTE TABLEBROWSER)
[if (NOT (MEMBER item (fetch (MENU ITEMS) of menu)))
then
(* A subitem -- fetch main item)
(SETQ item (for I in (fetch (MENU ITEMS) of menu) thereis (AB.Subitemp item I)
(if (OBTAIN.MONITORLOCK (fetch (TABLEBROWSER TBLOCK) of browser)
T T)
then (RESETSAVE (SHADEITEM item menu MENUSELECTSHADE)
(List (FUNCTION SHADEITEM)
item menu WHITESHADE))
(LET ((function (CADR realitem))
(promptwindow (GETPROMPTWINDOW window))
extra)
(if (OPENWP promptwindow)
then (CLEARW promptwindow))
(if (LISTP function)
then (SETQ extra (CADR function))
(SETQ function (CAR function)))
(APPLY* function browser extra))
else (TB.BROWSER.BUSY browser)))))]])
```

## (\* N.H.Briggs " 4-Mar-87 17:01")

## (AB.Expunge.Command

```

[ LAMBDA (browser)
  (if (EQ (fetch (TABLEBROWSER TB#DELETED) of browser)
    0)
    then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
      "Nothing to expunge!")
    else (LET [(directorystream (OPENSTREAM (PACKFILENAME (QUOTE VERSION)
      NIL
      (QUOTE BODY)
      (LISTGET (TB.USERDATA browser)
        (QUOTE ARCHIVE)))
      (QUOTE OUTPUT]
      (if (NOT directorystream)
        then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
          "Error opening (new version of) archive directory "
          (LISTGET (TB.USERDATA browser)
            (QUOTE ARCHIVE))
          " ...aborted.")
        else (LINELENGTH MAX.SMALLP directorystream) (* ensure nothing wraps around)
          (LISTPUT (TB.USERDATA browser)
            (QUOTE ALLITEMS)
            (for item in (LISTGET (TB.USERDATA browser)
              (QUOTE ALLITEMS))
              when (NOT (TB.ITEM.DELETED? browser item))
              collect (printout directorystream (fetch (AB.item AB.Filename)
                of (fetch (TABLEITEM TIDATA) of item))
                (fetch (AB.item AB.Creation.Date) of (fetch (TABLEITEM TIDATA)
                  of item)))
              (for media on (fetch (AB.item AB.Media) of (fetch (TABLEITEM TIDATA)
                of item))
              by (CDDR media) do (printout directorystream ,, (CAR media))
                (printout directorystream , (CADR media))
              finally (printout directorystream T))
              item))
          (LISTPUT (TB.USERDATA browser)
            (QUOTE ARCHIVE)
            (L-CASE (FULLNAME directorystream)))
          (CLOSEF directorystream)
          (AB.Set.Browser.Title browser)

```

(TB.MAP.DELETED.ITEMS browser (FUNCTION TB.REMOVE.ITEM))

**(AB.Filter.Command**

```

[LAMBDA (browser)
  (LET ((pattern (AB.Prompt.For.Input "Files matching what? " (LISTGET (TB.USERDATA browser)
    (* N.H.Briggs "18-Jun-86 12:28")
    (QUOTE FILTER))
    browser T)))
    (if pattern
      then (LISTPUT (TB.USERDATA browser)
        (QUOTE FILTER)
        (L-CASE pattern))
        (AB.Set.Browser.Title browser)
        (AB.Recompute.Command browser]))

```

**(AB.Recompute.Command**

```

[LAMBDA (browser newdirectory?)
  (LET* ((window (TB.WINDOW browser))
    (windowregion (WINDOWPROP window (QUOTE REGION)))
    (region (CREATEREGION 0 0 (fetch (REGION WIDTH) of windowregion)
    (* N.H.Briggs "19-Sep-86 12:34")
    (fetch (REGION HEIGHT) of windowregion)))
    (namewidth 0)
    (userdata (TB.USERDATA browser))
    [filter (DIRECTORY.MATCH.SETUP (PACKFILENAME (QUOTE BODY)
    (LISTGET userdata (QUOTE FILTER)
    result)
    (if (NOT (ZEROP (fetch (TABLEBROWSER TB#DELETED) of browser)))
      then (if (MENU (create MENU
        ITEMS _ (QUOTE (("Expunge" (QUOTE Expunge)
          "Expunge items marked for deletion")
          ("Don't Expunge" NIL "Don't expunge items marked for
            deletion"))
        TITLE _ "Expunge deleted items?"
        CENTERFLG _ T))
        then (AB.Expunge.Command browser)))
      (if (AND newdirectory? (SETQ result (AB.Prompt.For.Input "New archive directory? " NIL browser T)))
        then (LISTPUT userdata (QUOTE ARCHIVE)
          (PACKFILENAME.STRING (QUOTE NAME)
            (OR (FILENAMEFIELD result (QUOTE NAME))
              (QUOTE Archive))
            (QUOTE EXTENSION)
            (OR (FILENAMEFIELD result (QUOTE EXTENSION))
              (QUOTE directory))
            (QUOTE BODY)
            result)))
        (if (OR (NOT newdirectory?)
          (AND newdirectory? result))
          then (TB.REPLACE.ITEMS browser)
            (LISTPUT userdata (QUOTE ALLITEMS)
              (for item in (AB.Read.Directory browser) bind tableitem
                eachtime (SETQ tableitem (create TABLEITEM
                  TIDATA _ item))
                collect (if (DIRECTORY.MATCH filter (PACKFILENAME (QUOTE BODY)
                  (fetch (AB.item AB.Filename) of item)))
                  then (SETQ namewidth (MAX namewidth (STRINGWIDTH (fetch (AB.item
                    AB.Filename)
                    of item)
                    AB.browser.font)))
                    (TB.INSERT.ITEM browser tableitem))
                    tableitem))
            (LISTPUT userdata (QUOTE NAMEWIDTH)
              namewidth)
            (TB.DISPLAY.LINES browser (TB.FIRST.VISIBLE.ITEM# browser region)
              (TB.LAST.VISIBLE.ITEM# browser region]))

```

**(AB.Retrieve.Command**

```

[LAMBDA (browser)
  (DECLARE (GLOBALVARS AB.archivist))
  (PROG ((count 0)
    registry corestream)
    (DECLARE (SPECVARS corestream count))
    [SETQ registry (SELECTQ (OR (LAFITEMODE)
    (* N.H.Briggs "4-Mar-87 16:54")
    (\LAFITE.INFER.MODE))
      (GV ".pa")
      (NS ":PA")
      (RETURN (printout (GETPROMPTWINDOW (TB.WINDOW browser))
        "Can't retrieve -- Lafite mode must be set to GV or NS"]
      (SETQ corestream (OPENSTREAM (QUOTE {NODIRCORE})
        (QUOTE BOTH)))
      (LINELENGTH MAX.SMALLP corestream)
      (printout corestream "Subject: Retrieve request" T "To: " AB.archivist registry T "cc: " (FULLUSERNAME
        T T)
        )
    [TB.MAP.SELECTED.ITEMS browser (FUNCTION (LAMBDA (browser item)
      (DECLARE (SPECVARS corestream count))

```

```

                                (printout corestream "Retrieve: "
                                  (fetch (AB.item AB.Filename)
                                    of (fetch (TABLEITEM TIDATA) of item))
                                  " of "
                                  (fetch (AB.item AB.Creation.Date)
                                    of (fetch (TABLEITEM TIDATA) of item))
                                  " from "
                                  (CAR (fetch (AB.item AB.Media)
                                    of (fetch (TABLEITEM TIDATA) of item)))
                                  " or "
                                  (CADR (fetch (AB.item AB.Media)
                                    of (fetch (TABLEITEM TIDATA) of item)))
                                  T)
                                (add count 1]

(if (EQ count 0)
  then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
    "Nothing to retrieve.")
    (CLOSEF corestream)
    (RETURN))
(SETQ corestream (OPENTEXTSTREAM corestream))
(printout (GETPROMPTWINDOW (TB.WINDOW browser))
  "Sending mail to " AB.archivist registry " requesting " count " file"
  (if (NEQ count 1)
    then "s: "
    else ": "))
(if (CAR (ERSETQ (LAFITE.SENDMESSAGE corestream)))
  then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
    " done.")
  else (printout (GETPROMPTWINDOW (TB.WINDOW browser))
    " failed."))

```

**(AB.Retrieve.Directory.Command**

(\* N.H.Briggs " 4-Mar-87 16:53")

```

[LAMBDA (browser)
  (DECLARE (GLOBALVARS AB.archivist))
  (PROG ((count 0)
    registry corestream newdirectory)
    (DECLARE (SPECVARS corestream count newdirectory))
    [SETQ registry (SELECTQ (OR (LAFITEMODE)
      (\LAFITE.INFER.MODE))
      (GV ".pa")
      (NS ":PA")
      (RETURN (printout (GETPROMPTWINDOW (TB.WINDOW browser))
        "Can't retrieve -- Lafite mode must be set to GV or NS"]
    (if (NOT (SETQ newdirectory (AB.Prompt.For.Input "Directory to retrieve into? " NIL browser T)))
      then (RETURN))
    (SETQ corestream (OPENSTREAM (QUOTE {NODIRCORE})
      (QUOTE BOTH)))
    (LINELENGTH MAX.SMALLP corestream)
    (printout corestream "Subject: Retrieve request" T "To: " AB.archivist registry T "cc: " (FULLUSERNAME
      T T)
    [TB.MAP.SELECTED.ITEMS browser (FUNCTION (LAMBDA (browser item)
      (DECLARE (SPECVARS corestream count newdirectory))
      (printout corestream "Retrieve: "
        (fetch (AB.item AB.Filename)
          of (fetch (TABLEITEM TIDATA) of item))
        " of "
        (fetch (AB.item AB.Creation.Date)
          of (fetch (TABLEITEM TIDATA) of item))
        " from "
        (CAR (fetch (AB.item AB.Media)
          of (fetch (TABLEITEM TIDATA) of item)))
        " or "
        (CADR (fetch (AB.item AB.Media)
          of (fetch (TABLEITEM TIDATA) of item)))
        " as "
        [AB.Make.Cedar.Filename
          (PACKFILENAME.STRING (QUOTE DIRECTORY)
            newdirectory
            (QUOTE VERSION)
            NIL
            (QUOTE BODY)
            (fetch (AB.item AB.Filename)
              of (fetch (TABLEITEM TIDATA) of item))
          T)
        (add count 1]

      (if (EQ count 0)
        then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
          "Nothing to retrieve.")
          (CLOSEF corestream)
          (RETURN))
        (SETQ corestream (OPENTEXTSTREAM corestream))
        (printout (GETPROMPTWINDOW (TB.WINDOW browser))
          "Sending mail to " AB.archivist registry " requesting " count " file"
          (if (NEQ count 1)
            then "s: "

```

```

      else ": ")
    (if (CAR (ERSETQ (LAFITE.SENDMESSAGE corestream)))
      then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
        " done.")
      else (printout (GETPROMPTWINDOW (TB.WINDOW browser))
        " failed."))

```

**(AB.Retrieve.Renamed.Command**

(\* N.H.Briggs " 3-Mar-87 12:34")

```

[LAMBDA (browser)
  (DECLARE (GLOBALVARS AB.archivist))
  (PROG ((count 0)
    registry corestream)
    (DECLARE (SPECVARS corestream count))
    [SETQ registry (SELECTQ (OR (LAFITEMODE)
      (\LAFITE.INFER.MODE))
      (GV ".pa")
      (NS ":PA")
      (RETURN (printout (GETPROMPTWINDOW (TB.WINDOW browser))
        "Can't retrieve -- Lafite mode must be set to GV or NS"]
      (SETQ corestream (OPENSTREAM (QUOTE {NODIRCORE})
        (QUOTE BOTH)))
      (LINELENGTH MAX.SMALLP corestream)
      (printout corestream "Subject: Retrieve request" T "To: " AB.archivist registry T "cc: " (FULLUSERNAME
        T T)
      (TB.MAP.SELECTED.ITEMS browser (FUNCTION AB.Retrieve.Renamed.Aux))
      (if (EQ count 0)
        then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
          "Nothing to retrieve.")
          (CLOSEF corestream)
          (RETURN))
        (SETQ corestream (OPENTEXTSTREAM corestream))
        (printout (GETPROMPTWINDOW (TB.WINDOW browser))
          "Sending mail to " AB.archivist registry " requesting " count " file"
          (if (NEQ count 1)
            then "s: "
            else ": ")
          (if (CAR (ERSETQ (LAFITE.SENDMESSAGE corestream)))
            then (printout (GETPROMPTWINDOW (TB.WINDOW browser))
              " done.")
            else (printout (GETPROMPTWINDOW (TB.WINDOW browser))
              " failed."))

```

**(AB.Retrieve.Renamed.Aux**

(\* N.H.Briggs " 4-Mar-87 16:52")

```

[LAMBDA (browser item)
  (DECLARE (SPECVARS corestream count))
  (LET ((newname (AB.Prompt.For.Input (CONCAT "Retrieve " (fetch (AB.item AB.Filename) of (fetch (TABLEITEM TIDATA)
    of item))
    " as ?")
    (fetch (AB.item AB.Filename) of (fetch (TABLEITEM TIDATA) of item))
    browser "... skipped")))
    (if newname
      then (printout corestream "Retrieve: " (fetch (AB.item AB.Filename) of (fetch (TABLEITEM TIDATA)
        of item))
        " of "
        (fetch (AB.item AB.Creation.Date) of (fetch (TABLEITEM TIDATA) of item))
        " from "
        (CAR (fetch (AB.item AB.Media) of (fetch (TABLEITEM TIDATA) of item)))
        " or "
        (CADR (fetch (AB.item AB.Media) of (fetch (TABLEITEM TIDATA) of item)))
        " as "
        (AB.Make.Cedar.Filename (PACKFILENAME.STRING (QUOTE VERSION)
          NIL
          (QUOTE BODY)
          newname))
        T)
      (add count 1])

```

**(AB.Sort.Command**

(\* N.H.Briggs "17-Jun-86 12:47")

```

[LAMBDA (browser sorttype)
  (LET ((items (fetch (TABLEBROWSER TBITEMS) of browser)))
    (if (EQ sorttype (QUOTE Reverse))
      then (SETQ items (DREVERSE items))
      else (SORT items (SELECTQ sorttype
        (CreationDate [FUNCTION (LAMBDA (x y)
          (IGREATERP (IDATE (fetch (AB.item AB.Creation.Date)
            of (fetch (TABLEITEM TIDATA)
              of x)))
          (IDATE (fetch (AB.item AB.Creation.Date)
            of (fetch (TABLEITEM TIDATA)
              of y])
        (Archive [FUNCTION (LAMBDA (x y)
          (ILESSP (fetch (AB.item AB.Sequence.Number)
            of (fetch (TABLEITEM TIDATA) of x))

```

```

                                (fetch (AB.item AB.Sequence.Number)
                                of (fetch (TABLEITEM TIDATA) of y))
(FUNCTION (LAMBDA (x y)
  (ALPHORDER (fetch (AB.item AB.Filename) of (fetch (TABLEITEM TIDATA)
                                of x))
  (fetch (AB.item AB.Filename) of (fetch (TABLEITEM TIDATA)
                                of y))
  (UPPERCASEARRAY]
(for item in items as i from 1 do (replace TI# of item with i))
(TB.REPLACE.ITEMS browser items)
(TB.REDISPLAY.ITEMS browser])

```

**(AB.Undelete.Command**

(\* N.H.Briggs " 4-Mar-87 17:00")

```

[LAMBDA (browser all?)
  (LET [(count 0)
    (browserpromptwindow (GETPROMPTWINDOW (TB.WINDOW browser))
    (DECLARE (SPECVARS count))
    [if all?
      then [TB.MAP.DELETED.ITEMS browser (FUNCTION (LAMBDA (browser item)
        (DECLARE (SPECVARS count))
        (TB.UNDELETE.ITEM browser item)
        (add count 1]
      else [TB.MAP.SELECTED.ITEMS browser (FUNCTION (LAMBDA (browser item)
        (DECLARE (SPECVARS count))
        (TB.UNDELETE.ITEM browser item)
        (add count 1]
    (if (EQ count 0)
      then (printout browserpromptwindow "No items were undeleted.")
      else (printout browserpromptwindow count " item" (if (NEQ count 1)
        then "s"
        else ""))
    " undeleted."))
  )

```

(\* \* miscellaneous functions)

(DEFINEQ

**(AB.Set.Browser.Title**

(\* N.H.Briggs "17-Jun-86 15:45")

```

[LAMBDA (browser)
  (LET [(archive (LISTGET (TB.USERDATA browser)
    (QUOTE ARCHIVE)))
    (filter (LISTGET (TB.USERDATA browser)
    (QUOTE FILTER))
    (WINDOWPROP (GETPROMPTWINDOW (TB.WINDOW browser))
    (QUOTE TITLE)
    (CONCAT "Archive Browser" (OR (AND archive (CONCAT " " archive))
    ""))
    (OR (AND filter (CONCAT " - files " filter))
    ""))
  )

```

**(AB.Iconfn**

(\* N.H.Briggs "19-Sep-86 18:58")

```

[LAMBDA (window icon)
  (DECLARE (GLOBALVARS AB.titled.icon))
  (LET* [(browser (WINDOWPROP window (QUOTE TABLEBROWSER)))
    (archive (LISTGET (TB.USERDATA browser)
    (QUOTE ARCHIVE)))
    (directory (UNPACKFILENAME.STRING archive (QUOTE DIRECTORY)))
    (host (UNPACKFILENAME.STRING archive (QUOTE HOST)))
    (title (PACKFILENAME.STRING (QUOTE HOST)
    host
    (QUOTE DIRECTORY)
    (SUBSTRING directory 1 (STRPOS directory ">"))
  (if icon
    then (ICONW.TITLE icon title)
    icon
    else (TITLEDICONW AB.titled.icon title (FONTCREATE (QUOTE MODERN)
    8)
    NIL NIL NIL (CHARCODE {}))
  )

```

**(AB.Closefn**

(\* edited: "20-Jun-86 12:42")

```

[LAMBDA (window)
  (LET [(browser (WINDOWPROP window (QUOTE TABLEBROWSER))
    (if (NOT (ZEROP (fetch (TABLEBROWSER TB#DELETED) of browser)))
      then (if (MENU (create MENU
        ITEMS _ (QUOTE (("Expunge" (QUOTE Expunge)
        "Expunge items marked for deletion")
        ("Don't Expunge" NIL "Don't expunge items marked for deletion")
        ))
        TITLE _ "Expunge deleted items?"
        CENTERFLG _ T))
      then (AB.Expunge.Command browser)))
  )

```

(AB.Printfn

(AB.Prompt.For.Input

(**AB.Read.Directory**

```
[LAMBDA (browser)
  (LET ([directorystream (AND (LISTGET (TB.USERDATA browser)
                                       (QUOTE ARCHIVE))
                              (CAR (NLSETQ (OPENSTREAM (LISTGET (TB.USERDATA browser)
                                                                  (QUOTE ARCHIVE))
                                                                (QUOTE INPUT))
                                             (linerddtable (COPYREADTABLE (QUOTE ORIG))))
                                             (promptwindow (GETPROMPTWINDOW (TB.WINDOW browser)))
                                             items))
        (if (NOT directorystream)
            then (printout promptwindow "Can't find archive directory " (LISTGET (TB.USERDATA browser)
                                                                                    (QUOTE ARCHIVE)))
            (LISTPUT (TB.USERDATA browser)
```



```

(73 73 "000000000000000000H@ " "000000000000000000H@ " "000000000000000000H@ " "ML000000000000000000H@ "
"LO000000000000000000IHE " "LJ000000000000000000IHE " "LK000000000000000000IHE " "LH000000000000000000IHE "
"LHF000000000000000000IHE " "LHC000000000000000000IHE " "LHA000000000000000000IHE " "LHL000000000000000000IHE "
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