

File created: 26-Jan-88 15:45:41 {ERINYES}<LISPUSERS>LYRIC>DIRGRAPHER.;2

changes to: (VARS DIRGRAPHERCOMS)
(FNS DG.ADVISE-GENERATE-FILE)

previous date: 20-Aug-87 19:28:44 {ERINYES}<LISPUSERS>LYRIC>DIRGRAPHER.;1

Read Table: XCL

Package: INTERLISP

Format: XCCS

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(RPAQQ DIRGRAPHERCOMS

((FILES GRAPHER FILEBROWSER)
(INITVARS

::: VARIABLES TO BE SET BY THE USER

(DG.PROMPTWINDOWFONT (FONTCREATE '(GACHA 8)))
(DG.GRAPH-LABEL-FONT (FONTCREATE '(GACHA 8)))
(DG.VERTICAL-HORIZONTAL-OPTION 'VERTICAL)
(DG.COPY-OVER NIL)
(DG.BOX-ALL T)
(DG.DEFAULT-DIR '{DSK}<LISPFILES>)
(DG.CONCURRENT NIL)
(DG.CONCURRENT-ALL T)
(DG.MAX-WIDTH 900)
(DG.MAX-HEIGHT 700)
(DG.MIN-WIDTH 200)
(DG.MIN-HEIGHT 100)
(DG.MENU-EDGE 'RIGHT)
(DG.MENU-FONT LITTLEFONT)
(DG.FILE-INFO-ATTRIBUTES '(SIZE CREATIONDATE WRITEDATE AUTHOR))
(DG.DEFAULT-BACKUP-DIRECTORY '{FLOPPY})
(DG.STAND-ALONE-HOSTS '(DSK FLOPPY CORE))
(DG.BACKGROUND-DIRECTORIES NIL)
(VARS DG.CANCEL-BUTTON-BM DG.OK-BUTTON-BM DG.RESET-BUTTON-BM

::: PROGRAM VARIABLES

(DG.ICONFONT (FONTCREATE '(GACHA 8)))
(DG.DIRECTORY-WAS-SELECTED-EVENT (CREATE.EVENT))
(DG.MONITOR-LOCK (CREATE.MONITORLOCK "DG.MONITOR"))
(DG.LAST-DIRECTORY-SELECTED NIL)
(DG.WINDOW-OF-LAST-DIRECTORY NIL)
(FNS DG.ADD-ITEM-TO-BACKGROUND-MENU DG.ADVISE-GENERATE-FILE DG.APPLY-DIRGRAPHER-COMMAND
DG.APPLY-FB-ON-DIR-AND-SUBDIRS-COMMAND DG.APPLY-FILEBROWSER-COMMAND DG.ASK-FOR-BACKUP-TYPE
DG.ATTACH-DIRECTORY-FILES-MENU DG.BACKUP-COMMAND DG.FILE-EXISTS DG.FILE-INFO-COMMAND
DG.FILE-INFO-SELECTION-FN DG.FILES-HARDCOPY-COMMAND DG.LOAD-FILES-COMMAND DG.NEWER-FILE
DG.BACKUP-ON-DEFAULT-COMMAND DG.BACKUP-ON-SELECTED-COMMAND DG.CONNECT-DIR-COMMAND
DG.COPY-DIRECTORY-COMMAND DG.COPY-FILE-COMMAND DG.COPYBUTTONEVENTFN DG.CREATE-BACKUP-FREE-MENU
DG.CREATE-BACKUP-NAME DG.CREATE-DIRECTORY-CHAIN DG.CREATE-DIRECTORY-SPEC DG.CREATE-DIRECTORY-TREE
DG.CREATE-GRAPH-FROM-TREE DG.CREATE-ICON-TITLE DG.CREATE-MENU DG.CREATE-PATH-FROM-FILE-NAME
DG.CREATE-PREFIX-FROM-PATH DG.CREATE-QUIT-MENU DG.CREATE-SUBDIR-COMMAND DG.CREATE-TREE-FROM-LISTS
DG.CREATE-TREE-NODES DG.CREATEICONW DG.CURRENT-CONNECTED-DIRECTORY DG.DELETE-DIRECTORY-COMMAND
DG.DELETE-FROM-TREE DG.DELETE-OLD-VERSIONS-COMMAND DG.DELETE-SELECTED-FILES-COMMAND
DG.DIRECTORY-MINUS-PREFIX DG.DIRECTORY-SELECTION-FUNCTION DG.DISPLAY-DIRECTORY-TREE DG.DOCOMMAND
DG.DOCOMMAND-WITH-MONITOR DG.DOCOMMAND-WITHOUT-MONITOR DG.EXCLUSIVE-DIRECTORY
DG.EXCLUSIVE-NEW-VERSIONS DG.EXCLUSIVE-OLD-VERSIONS DG.FBICONFN DG.FILE-SELECTION-FN DG.FILECOPY
DG.FIND-DIRECTORY-SUBTREE DG.FIND-MENU-ITEM DG.FIND-PARENT-DIRECTORY DG.FLASHALLWINDOWS
DG.GET-FB-PATTERN DG.GET-FILE-LIST DG.GET-INITIAL-REGION DG.KILL-PROCESS DG.MOVE-DIR-COMMAND
DG.MOVE-FILE-COMMAND DG.MOVECOPY-COMMAND DG.MOVECOPY-DIR-COMMAND DG.PACK-NAME-VER-EXT
DG.PROMPTWINDOW DG.REDISPLAYFN DG.RESIDUAL-PATH DG.RESTORE-COMMAND DG.RESTORE-FROM-DEFAULT-COMMAND
DG.RESTORE-FROM-SELECTED-COMMAND DG.SETIFY DG.SHADE-CURRENT-DIRECTORY DG.TRIM DG.UNADVISE
DG.UNADVISE-GENERATE-FILE DG.UNPACK-DIRECTORY-NAME DG.UPDATE-COMMAND DG.UPDATE-DIRECTORY-TREE
DG.UPDATE-DIRECTORY-TREE DG.WAIT-FOR-DIR-SELECTION DIRGRAPHER)
(BITMAPS DG.ICON DG.MASK DG.FILL-WINDOW-TEXTURE DG.WHITEBM)
(P (DG.ADVISE-GENERATE-FILE)
(SETQ DG.BACKGROUND-DIRECTORIES (UNION DG.BACKGROUND-DIRECTORIES
(UNION DIRECTORIES (CONS '(FLOPPY)
(FOR D IN (VOLUMES)
WHEN
(LISPDICTIONARY D)
COLLECT
(PACK* '(DSK)< D '>))))))
(DG.ADD-ITEM-TO-BACKGROUND-MENU
'|DirGrapher|
'(DIRGRAPHER)
"Will initiate dirgrapher process on the current directory"
(CONS 'SUBITEMS (CONS '("DG Windows to top" (|for| W |in| (OPENWINDOWS)
|when|
(OR (WINDOWPROP W 'DG.PATH-TO-ROOT)
(AND (WINDOWPROP W 'ICONFOR)
(WINDOWPROP (WINDOWPROP W 'ICONFOR)
'DG.PATH-TO-ROOT))))



```

|do|
(TOTOPW W))
(FOR D IN DG.BACKGROUND-DIRECTORIES COLLECT (LIST D (LIST 'DIRGRAPHER
(KWOTE D))
(CONCAT "WILL APPLY
DIRGRAPHER ON " D))))
)))

```

;;; (declare\ dontcopy (prop makefile-environment dirgrapher))

```

(FILESLoad GRAPHER FILEBROWSER)
(RPAQ? DG.PROMPTWINDOWFONT (FONTCREATE ' (GACHA 8)))
(RPAQ? DG.GRAPH-LABEL-FONT (FONTCREATE ' (GACHA 8)))
(RPAQ? DG.VERTICAL-HORIZONTAL-OPTION 'VERTICAL)
(RPAQ? DG.COPY-OVER NIL)
(RPAQ? DG.BOX-ALL T)
(RPAQ? DG.DEFAULT-DIR ' {DSK}<LISPFILES>)
(RPAQ? DG.CONCURRENT NIL)
(RPAQ? DG.CONCURRENT-ALL T)
(RPAQ? DG.MAX-WIDTH 900)
(RPAQ? DG.MAX-HEIGHT 700)
(RPAQ? DG.MIN-WIDTH 200)
(RPAQ? DG.MIN-HEIGHT 100)
(RPAQ? DG.MENU-EDGE 'RIGHT)
(RPAQ? DG.MENU-FONT LITTLEFONT)
(RPAQ? DG.FILE-INFO-ATTRIBUTES ' (SIZE CREATIONDATE WRITEDATE AUTHOR))
(RPAQ? DG.DEFAULT-BACKUP-DIRECTORY ' {FLOPPY})
(RPAQ? DG.STAND-ALONE-HOSTS ' (DSK FLOPPY CORE))
(RPAQ? DG.BACKGROUND-DIRECTORIES NIL)
(RPAQQ DG.CANCEL-BUTTON-BM )
(RPAQQ DG.OK-BUTTON-BM )
(RPAQQ DG.RESET-BUTTON-BM )
(RPAQ DG.ICONFONT (FONTCREATE ' (GACHA 8)))
(RPAQ DG.DIRECTORY-WAS-SELECTED-EVENT (CREATE.EVENT))
(RPAQ DG.MONITOR-LOCK (CREATE.MONITORLOCK "DG.MONITOR"))
(RPAQQ DG.LAST-DIRECTORY-SELECTED NIL)
(RPAQQ DG.WINDOW-OF-LAST-DIRECTORY NIL)

```

(DG.ADD-ITEM-TO-BACKGROUND-MENU

```

(LAMBDA (LABEL COMMAND MESSAGE SUBITEMLIST) (* |edited:| "13-May-86 14:03")
(DECLARE (GLOBALVARS |BackgroundMenuCommands| |BackgroundMenu|)
(SETQ |BackgroundMenuCommands| (REMOVE (FASOC LABEL |BackgroundMenuCommands|)
|BackgroundMenuCommands|))
(NCONC1 |BackgroundMenuCommands| (LIST LABEL COMMAND MESSAGE SUBITEMLIST))
(SETQ |BackgroundMenu| NIL)))

```

(DG.ADVISE-GENERATE-FILE

```

(LAMBDA NIL
(MOVD '\GENERATENEXTFILE 'DG.GENERATE-NEXT-FILE T)
(UNADVISE (\GENERATENEXTFILE IN FB.UPDATEBROWSERITEMS))
(ADVISE ' (\GENERATENEXTFILE IN FB.UPDATEBROWSERITEMS))

```

; Edited 26-Jan-88 15:42 by sml

```
' AROUND
' (PROG* ((WINDOW (TB.WINDOW (FB.TABLEBROWSER BROWSER)))
(PATTERN (DG.GET-FB-PATTERN WINDOW))
(FBDIR (U-CASE (FILENAMEFIELD PATTERN 'DIRECTORY)))
(FBHOST (U-CASE (FILENAMEFIELD PATTERN 'HOST)))
NEXT-FILE TEMP-HOST)
(DECLARE (GLOBAL DG.STAND-ALONE-HOSTS))
(SETQ FBHOST (|if| (MEMB FBHOST DG.STAND-ALONE-HOSTS)
|then| FBHOST
|else| (OR (CANONICAL.HOSTNAME FBHOST)
FBHOST)))
NEXT
(SETQ NEXT-FILE (DG.GENERATE-NEXT-FILE GENOBJ NAMEONLY))
(|if| (NULL NEXT-FILE)
|then| (RETURN NIL))
(|if| (LISTP NEXT-FILE)
|then| (SETQ NEXT-FILE (PACKC NEXT-FILE)))
(|if| (OR (NOT (WINDOWPROP (MAINWINDOW WINDOW)
'DG.DIRECTORY-ONLY))
(AND (EQ (U-CASE (FILENAMEFIELD NEXT-FILE 'DIRECTORY))
FBDIR)
(EQ (FILENAMEFIELD NEXT-FILE 'HOST)
FBHOST)))
|then| (RETURN NEXT-FILE)
|else| (GO NEXT))))))
```

(DG.APPLY-DIRGRAPHER-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| " 3-Apr-85 11:27")
(PROG (CURRENT-PATH DIR-FILE-LIST FB-WINDOW TEMP-STRING)
(SETQ CURRENT-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory on which to apply
DirGrapher.")))
(COND
(CURRENT-PATH (INVERTW WINDOW)
(DIRGRAPHER (DG.CREATE-PREFIX-FROM-PATH CURRENT-PATH))
(INVERTW WINDOW))))))
```

(DG.APPLY-FB-ON-DIR-AND-SUBDIRS-COMMAND

```
(LAMBDA (WINDOW) (* |sm| "10-Jun-85 14:42")
(DG.APPLY-FILEBROWSER-COMMAND WINDOW T))
```

(DG.APPLY-FILEBROWSER-COMMAND

```
(LAMBDA (WINDOW SUBDIRS) (* |edited:| " 7-May-86 13:09")
(PROG (CURRENT-PATH DIR-FILE-LIST FB-WINDOW TEMP-STRING)
(SETQ CURRENT-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory on which to apply
FileBrowser.")))
(COND
(CURRENT-PATH (INVERTW WINDOW)
(SETQ FB-WINDOW (FILEBROWSER (DG.CREATE-PREFIX-FROM-PATH CURRENT-PATH)))
(|if| (NOT SUBDIRS)
|then| (WINDOWPROP FB-WINDOW 'DG.DIRECTORY-ONLY T))
(WINDOWPROP FB-WINDOW 'ICONFN 'DG.FBICONFN)
(INVERTW WINDOW))))))
```

(DG.ASK-FOR-BACKUP-TYPE

```
(LAMBDA (CURRENT-DIRECTORY) (* |sm| " 9-Jun-85 11:53")
(PROG (BACKUP-TYPE)
(COND
((NULL (CDR CURRENT-DIRECTORY))
(SETQ BACKUP-TYPE 'FILES-ONLY))
(T (SETQ BACKUP-TYPE (MENU (|create| MENU
ITEMS _ (LIST (LIST "Back up files in this directory (but not in
subdirectories)" 'FILES-ONLY)
(LIST "Backup files of this directory and
subdirectories" 'FILES-AND-SUBS))
MENUFONT _ BIGFONT)
NIL T))))
(RETURN BACKUP-TYPE)))
```

(DG.ATTACH-DIRECTORY-FILES-MENU

```
(LAMBDA (PATH WINDOW MAIN-WINDOW FILE-SELECTION-FN INCLUDEFULLNAMES)
(* |edited:| "16-May-86 15:56")
(DECLARE (GLOBALVARS LITTLEFONT SCREENHEIGHT))
(PROG (MENU FILE-LIST NUMBER-OF-COLUMNS NUMBER-OF-ROWS LENGTH-FILE-LIST MAX-WIDTH MENU-WINDOW)
(SETQ FILE-SELECTION-FN (OR FILE-SELECTION-FN 'DG.FILE-SELECTION-FN))
(SETQ FILE-LIST (CONS '\ STOP (|for| F |in| (DG.EXCLUSIVE-DIRECTORY (DG.CREATE-PREFIX-FROM-PATH PATH))
|collect| (|if| INCLUDEFULLNAMES
|then| (LIST (DG.PACK-NAME-VER-EXT F)
F)
|else| (DG.PACK-NAME-VER-EXT F))))))
(|if| (CDR FILE-LIST)
|then| (SETQ LENGTH-FILE-LIST (LENGTH FILE-LIST))
(SETQ MAX-WIDTH 6))
```

```

(|for| F |in| FILE-LIST |bind| WIDTH |when| (GREATERP (SETQ WIDTH (STRINGWIDTH
                                                                    (|if| INCLUDEFULLNAMES
                                                                    |then| (CAR F)
                                                                    |else| F)
                                                                    LITTLEFONT))
                                                                    MAX-WIDTH)
|do| (SETQ MAX-WIDTH WIDTH))
(SETQ NUMBER-OF-COLUMNS (MAX 1 (IQUOTIENT (CAR (WINDOWSIZE MAIN-WINDOW))
                                                                    MAX-WIDTH)))
(SETQ NUMBER-OF-ROWS (IPLUS (IQUOTIENT LENGTH-FILE-LIST NUMBER-OF-COLUMNS)
                                                                    (|if| (EQ (IREMAINDER LENGTH-FILE-LIST NUMBER-OF-COLUMNS)
                                                                    0)
                                                                    |then| 0
                                                                    |else| 1)))
(SETQ FILE-LIST (APPEND FILE-LIST (|for| I |from| (ADD1 LENGTH-FILE-LIST)
                                                                    |to| (ITIMES NUMBER-OF-COLUMNS NUMBER-OF-ROWS)
                                                                    |collect| " ")))
(SETQ FILE-LIST (|for| ROW |from| 1 |to| NUMBER-OF-ROWS
                                                                    |join| (|for| I |in| (NTH FILE-LIST ROW) |by| (NTH I (ADD1 NUMBER-OF-ROWS))
                                                                    |collect| I)))
(SETQ MENU-WINDOW
  (ATTACHMENU (|create| MENU
    ITEMS _ FILE-LIST
    WHENSELECTEDFN _ FILE-SELECTION-FN
    MENCOLUMNS _ NUMBER-OF-COLUMNS
    MENUFONT _ LITTLEFONT)
  MAIN-WINDOW
  (|if| (GREATERP (IPLUS (|fetch| BOTTOM |of| (WINDOWREGION MAIN-WINDOW))
                                                                    (IQUOTIENT (CDR (WINDOWSIZE MAIN-WINDOW))
                                                                    2))
                                                                    (IQUOTIENT SCREENHEIGHT 2))
    |then| 'BOTTOM
    |else| 'TOP)
  'JUSTIFY))
  (RETURN MENU-WINDOW)
|else| (RETURN NIL))))

```

(DG.BACKUP-COMMAND

```

(LAMBDA (WINDOW BACKUP-DIR)
  (* |edited:| "13-May-86 14:02")
  (DECLARE (GLOBALVARS DG.DIRECTORY-SUBTREE DG.FILES-BACKUP-NAMES COPYRIGHTFLG DG.COPY-OVER FILELST))
  (PROG (BACKUP-TYPE SOURCE-PATH SOURCE-DIRECTORY FILES-TO-BACKUP ROUND-OF-FILES FILES-BACKUP-NAMES
    BACKUP-HOST OLDCOPYRIGHTFLG SOURCE-PATH-AND-WINDOW SOURCE-WINDOW)
    (SETQ SOURCE-PATH-AND-WINDOW (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select the directory that you want to
      back up." T))
    (SETQ SOURCE-PATH (CAR SOURCE-PATH-AND-WINDOW))
    (SETQ SOURCE-WINDOW (CADR SOURCE-PATH-AND-WINDOW))
    (SETQ SOURCE-DIRECTORY (DG.FIND-DIRECTORY-SUBTREE SOURCE-PATH SOURCE-WINDOW))
    (SETQ BACKUP-TYPE (DG.ASK-FOR-BACKUP-TYPE SOURCE-DIRECTORY))
    (|if| (NULL (FILENAMEFIELD BACKUP-DIR 'DIRECTORY))
      |then| (SETQ BACKUP-DIR (PACK* BACKUP-DIR '<)))
    (SETQ BACKUP-HOST (FILENAMEFIELD BACKUP-DIR 'HOST))
    (INVERTW WINDOW)
    (SETQ FILES-TO-BACKUP (|if| (EQ BACKUP-TYPE 'FILES-AND-SUBS)
      |then| (DIRECTORY (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
      |else| (DG.EXCLUSIVE-DIRECTORY (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))))
    (SETQ FILES-BACKUP-NAMES (|for| F |in| FILES-TO-BACKUP |collect| (DG.CREATE-BACKUP-NAME F SOURCE-PATH
      SOURCE-DIRECTORY)))
    (SETQ DG.FILES-BACKUP-NAMES FILES-BACKUP-NAMES)
    (SETQ DG.DIRECTORY-SUBTREE SOURCE-DIRECTORY)
    (SET (FILECOMS 'BACKUPINFO)
      '((VARS DG.FILES-BACKUP-NAMES DG.DIRECTORY-SUBTREE)))
    (PUTPROP 'BACKUPINFO 'FILETYPE 'DON\TLIST)
    (COND
      ((EQ BACKUP-TYPE 'FILES-AND-SUBS)
        (SETQ DG.DIRECTORY-SUBTREE SOURCE-DIRECTORY))
      (T (SETQ DG.DIRECTORY-SUBTREE NIL)))
    (|if| (EQ BACKUP-HOST 'FLOPPY)
      |then| (INVERTW WINDOW)
        (|printout| (DG.PROMPTWINDOW WINDOW)
          T "Insert floppy.")
        (FLOPPY.WAIT.FOR.FLOPPY)
        (INVERTW WINDOW))
    (SETQ OLDCOPYRIGHTFLG COPYRIGHTFLG)
    (SETQ COPYRIGHTFLG NIL)
    (MAKEFILE (PACK* BACKUP-DIR (CAR SOURCE-DIRECTORY)
      '>
      'BACKUPINFO)
      'NEW)
    (SETQ COPYRIGHTFLG OLDCOPYRIGHTFLG)
    (|while| FILES-TO-BACKUP
      |do| (|for| F1 |in| FILES-TO-BACKUP |as| F2 |in| FILES-BACKUP-NAMES
        |do| (|if| (AND (NOT DG.COPY-OVER)
          (DG.FILE-EXISTS (PACK* BACKUP-DIR F2))
          (NOT (DG.NEWER-FILE F1 (PACK* BACKUP-DIR F2))))
          |then| (|printout| (DG.PROMPTWINDOW WINDOW)
            T "File " F1 " exists on " BACKUP-DIR " and was not copied."))

```

```

      (SETQ FILES-TO-BACKUP (REMOVE F1 FILES-TO-BACKUP))
      (SETQ FILES-BACKUP-NAMES (REMOVE F2 FILES-BACKUP-NAMES))
|else| (|if| (AND DG.COPY-OVER (DG.FILE-EXISTS (PACK* BACKUP-DIR F2)))
|then| (DELFILE (PACK* BACKUP-DIR F2)))
      (|if| (OR (NEQ BACKUP-HOST 'FLOPPY)
                (GREATERP (FLOPPY.FREE.PAGES)
                          (IPLUS (GETFILEINFO F1 'SIZE)
                                400)))
|then| (|if| (DG.FILECOPY F1 (PACK* BACKUP-DIR F2)
                DG.COPY-OVER)
|then| (|printout| (DG.PROMPTWINDOW WINDOW)
                T "File " F1 " is backed up.")
|else| (|printout| (DG.PROMPTWINDOW WINDOW)
                T "File " F1 " exists on " BACKUP-DIR " and was not
                copied."))
      (SETQ FILES-TO-BACKUP (REMOVE F1 FILES-TO-BACKUP))
      (SETQ FILES-BACKUP-NAMES (REMOVE F2 FILES-BACKUP-NAMES))))
(|if| FILES-TO-BACKUP
|then| (INVERTW WINDOW)
      (CLEARW (DG.PROMPTWINDOW WINDOW))
      (|printout| (DG.PROMPTWINDOW WINDOW)
                T "No more space on this floppy. Insert a new one. ")
      (FLASHWINDOW (DG.PROMPTWINDOW WINDOW)
                  3)
      (|for| I |from| 100 |to| 1000 |by| 200 |do| (PLAYTUNE (LIST (CONS I 5000))))
      (FLOPPY.WAIT.FOR.FLOPPY T)
      (INVERTW WINDOW))
      (SETQ FILELST (REMOVE 'BACKUPINFO FILELST))
      (INVERTW WINDOW)))

```

(DG.FILE-EXISTS

```

(LAMBDA (F)
  (INFILEP F))

```

(* |edited:| " 6-Mar-86 14:43")

(DG.FILE-INFO-COMMAND

```

(LAMBDA (WINDOW)
  (DECLARE (GLOBALVARS DG.PROMPTWINDOWFONT LITTLEFONT DG.FILE-INFO-ATTRIBUTES)
  (PROG (SOURCE-PATH SELECTED-FILES SOURCE-PREFIX MENU-WINDOW SOURCE-PATH-WINDOW WREGION TITLE-WIDTH TITLE
        COLUMNS DATEWIDTH PWINDOW)
    (SETQ PWINDOW (DG.PROMPTWINDOW WINDOW))
    (SETQ SOURCE-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory from which you want to
                          files info.")))
    (COND
      (SOURCE-PATH (INVERTW WINDOW)
        (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
        (SETQ TITLE " ")
        (|while| (GREATERP (STRINGWIDTH "MMMMMMMMMMMMMMMMMMMM : " DG.PROMPTWINDOWFONT)
                          (STRINGWIDTH TITLE LITTLEFONT))
|do| (SETQ TITLE (CONCAT TITLE " ")))
        (SETQ DATEWIDTH (STRINGWIDTH (DATE)
                                     DG.PROMPTWINDOWFONT))
        (|for| I |in| DG.FILE-INFO-ATTRIBUTES |bind| I-WITH-BLANKS
|do| (SETQ COLUMNS (NCONC1 COLUMNS (STRINGWIDTH TITLE LITTLEFONT)))
        (SETQ I-WITH-BLANKS I)
        (|if| (MEMBER I '(WRITEDATE READDATE CREATIONDATE))
|then| (|while| (GREATERP DATEWIDTH (STRINGWIDTH I-WITH-BLANKS LITTLEFONT))
|do| (SETQ I-WITH-BLANKS (CONCAT I-WITH-BLANKS " "))))
        (SETQ TITLE (CONCAT TITLE I-WITH-BLANKS " ")))
        (WINDOWPROP WINDOW 'DG.INFO-COLUMNS COLUMNS)
        (SETQ TITLE-WIDTH (STRINGWIDTH TITLE LITTLEFONT))
        (|if| (GREATERP TITLE-WIDTH (|fetch| WIDTH |of| (WINDOWPROP PWINDOW 'REGION)))
|then| (SETQ WREGION (WINDOWREGION WINDOW))
        (|replace| WIDTH |of| WREGION |with| (IPLUS (|fetch| WIDTH |of| WREGION)
                                                    (IDIFFERENCE TITLE-WIDTH
                                                                (|fetch| WIDTH
                                                                |of| (WINDOWPROP PWINDOW
                                                                'REGION)))))
        (INVERTW WINDOW)
        (RESHAPEALLWINDOWS WINDOW WREGION)
        (INVERTW WINDOW))
        (WINDOWPROP PWINDOW 'TITLE TITLE)
        (SETQ MENU-WINDOW (DG.ATTACH-DIRECTORY-FILES-MENU SOURCE-PATH WINDOW WINDOW
                  'DG.FILE-INFO-SELECTION-FN T))
        (INVERTW WINDOW)
        (|if| MENU-WINDOW
|then| (WINDOWPROP MENU-WINDOW 'DG.DETACH T)
        (CLEARW (DG.PROMPTWINDOW WINDOW))
        (AWAIT.EVENT (WINDOWPROP WINDOW 'DG.FILE-SELECTION-ENDED-EVENT)
                    1000000)
        (DETACHWINDOW MENU-WINDOW)
        (CLOSEW MENU-WINDOW))
        (WINDOWPROP PWINDOW 'TITLE NIL))))))

```

(DG.FILE-INFO-SELECTION-FN

```
(LAMBDA (ITEM MENU KEY) (* |edited:| "13-May-86 14:17")
  (DECLARE (GLOBALVARS DG.FILE-INFO-ATTRIBUTES))
  (PROG (WINDOW
    (SETQ WINDOW (MAINWINDOW (WFROMMENU MENU)))
    (COND
      ((EQ ITEM '\ STOP)
        (NOTIFY.EVENT (WINDOWPROP WINDOW 'DG.FILE-SELECTION-ENDED-EVENT)))
      ((EQUAL ITEM " ")
        (ITEM (PRINTOUT (DG.PROMPTWINDOW WINDOW)
          T
          (SUBSTRING (CAR ITEM)
            1
            (MIN (NCHARS (CAR ITEM)
              20)))
          " : ")
        (|for| ATT |in| DG.FILE-INFO-ATTRIBUTES |as| COL |in| (WINDOWPROP WINDOW 'DG.INFO-COLUMNS)
        |do| (DSPXPOSITION COL (DG.PROMPTWINDOW WINDOW))
          (PRINTOUT (DG.PROMPTWINDOW WINDOW)
            (GETFILEINFO (CADR ITEM)
              ATT))))))))
```

(DG.FILES-HARDCOPY-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| "13-May-86 14:06")
  (PROG (SOURCE-PATH SELECTED-FILES SOURCE-PREFIX MENU-WINDOW SOURCE-PATH-WINDOW)
    (SETQ SOURCE-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory from which you want to
      hardcopy selected files.)))
    (COND
      (SOURCE-PATH (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
        (SETQ MENU-WINDOW (DG.GET-FILE-LIST " The selected files will be hardcopied. " WINDOW
          SOURCE-PATH WINDOW))
        (SETQ SELECTED-FILES (WINDOWPROP MENU-WINDOW 'DG.SELECTED-FILES))
        (|if| SELECTED-FILES
          |then| (INVERTW WINDOW)
            (|for| FILE |in| SELECTED-FILES |do| (LISTFILES1 (PACK* SOURCE-PREFIX FILE))
              (SHADEITEM FILE (CAR (WINDOWPROP MENU-WINDOW
                'MENU))
                HIGHLIGHTSHADE MENU-WINDOW)
              (BLOCK))
            (INVERTW WINDOW))
          (DETACHWINDOW MENU-WINDOW)
          (CLOSEW MENU-WINDOW))))))
```

(DG.LOAD-FILES-COMMAND

```
(LAMBDA (WINDOW LOADTYPE LDFLG) (* |edited:| "13-May-86 16:31")
  (DECLARE (GLOBALVARS HIGHLIGHTSHADE))
  (PROG (SOURCE-PATH SELECTED-FILES SOURCE-PREFIX MENU-WINDOW SOURCE-PATH-WINDOW)
    (SETQ LOADTYPE (OR LOADTYPE 'LOAD))
    (SETQ SOURCE-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW (CONCAT "Select directory from which you want
      to " LOADTYPE " selected files.))))
    (COND
      (SOURCE-PATH (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
        (SETQ MENU-WINDOW (DG.GET-FILE-LIST " The selected files will be LOADED. " WINDOW SOURCE-PATH
          WINDOW))
        (SETQ SELECTED-FILES (WINDOWPROP MENU-WINDOW 'DG.SELECTED-FILES))
        (|if| SELECTED-FILES
          |then| (INVERTW WINDOW)
            (|for| FILE |in| SELECTED-FILES |do| (APPLY* LOADTYPE (PACK* SOURCE-PREFIX FILE)
              LDFLG)
              (SHADEITEM FILE (CAR (WINDOWPROP MENU-WINDOW
                'MENU))
                HIGHLIGHTSHADE MENU-WINDOW)
              (BLOCK))
            (INVERTW WINDOW))
          (DETACHWINDOW MENU-WINDOW)
          (CLOSEW MENU-WINDOW))))))
```

(DG.NEWER-FILE

```
(LAMBDA (F1 F2) (* |edited:| " 7-Mar-86 15:31")
  (GREATERP (GETFILEINFO F1 'ICREATIONDATE)
    (GETFILEINFO F2 'ICREATIONDATE)))
```

(DG.BACKUP-ON-DEFAULT-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| "13-May-86 13:56")
  (DECLARE (GLOBALVARS DG.DEFAULT-BACKUP-DIRECTORY))
  (|if| (NULL DG.DEFAULT-BACKUP-DIRECTORY)
    |then| (DG.FLASHALLWINDOWS WINDOW)
      (|printout| (DG.PROMPTWINDOW WINDOW)
        T "NULL default directory.Backup aborted")
    |else| (DG.BACKUP-COMMAND WINDOW DG.DEFAULT-BACKUP-DIRECTORY)))
```

(DG.BACKUP-ON-SELECTED-COMMAND

```
(LAMBDA (WINDOW) (* |sm| " 8-Jun-85 12:49")
```

```
(PROG (BACKUP-DIRECTORY)
  (SETQ BACKUP-DIRECTORY (DG.CREATE-PREFIX-FROM-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select the
  directory that will contain the
  backup." T))))
  (DG.BACKUP-COMMAND WINDOW BACKUP-DIRECTORY)))
```

(DG.CONNECT-DIR-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| "13-May-86 13:55")
  (DECLARE (GLOBALVARS DG.BOX-ALL))
  (PROG (CURRENT-PATH CURRENT-PREFIX)
    (SETQ CURRENT-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select the directory to which you want to
    be connected")))
    (COND
      (CURRENT-PATH (CNDIR (SETQ CURRENT-PREFIX (DG.CREATE-PREFIX-FROM-PATH CURRENT-PATH)))
        (|if| DG.BOX-ALL
          |then| (|for| W |in| (OPENWINDOWS) |when| (WINDOWPROP W 'DG.TREE) |do| (
            DG.SHADE-CURRENT-DIRECTORY
            W)
          |else| (DG.SHADE-CURRENT-DIRECTORY WINDOW))))))
```

(DG.COPY-DIRECTORY-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| " 2-Apr-85 18:02")
  (DG.MOVECOPY-DIR-COMMAND WINDOW)))
```

(DG.COPY-FILE-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| " 2-Apr-85 18:05")
  (DG.MOVECOPY-COMMAND WINDOW)))
```

(DG.COPYBUTTONEVENTFN

```
(LAMBDA (WINDOW) (* |sm| " 9-Jul-85 12:28")
  (PROG (CURSOR-POS SELECTED-NODE NODE-REGION RELEASED)
    (SETQ CURSOR-POS (CURSORPOSITION NIL WINDOW))
    (SETQ RELEASED (MOUSESTATE (AND (NOT LEFT)
    (NOT MIDDLE)
    (NOT RIGHT))))
    (|if| (SETQ SELECTED-NODE (|for| NODE |in| (|fetch| GRAPHNODES |of| (WINDOWPROP WINDOW 'GRAPH)
    |thereis| (INSIDEP (SETQ NODE-REGION (NODEREGION NODE))
    CURSOR-POS)))
      |then| (FLIPNODE SELECTED-NODE WINDOW)
      |else| (GRAPHERCOPYBUTTONEVENTFN WINDOW))
    (|if| (AND RELEASED SELECTED-NODE)
      |then| (BKSYSBUF (DG.CREATE-PREFIX-FROM-PATH (APPEND (WINDOWPROP WINDOW 'DG.PATH-TO-ROOT)
    (CDR (|fetch| NODEID |of| SELECTED-NODE))))))))))
```

(DG.CREATE-BACKUP-FREE-MENU

```
(LAMBDA (LEFT BOTTOM) (* |edited:| "16-May-86 17:50")
  (FM.FORMATMENU (LIST '((TYPE TITLE LABEL "Files to Backup : " FONT (MODERN 12 BOLD))
    (TYPE TOGGLE LABEL "Include SubDirectories" ID SUBDIRS)
    (TYPE TOGGLE LABEL "No Old Versions" ID SUBDIRS))
    (LIST '(TYPE NWAY LABEL ,DG.OK-BUTTON-BM ID BUTTONS)
    '(TYPE NWAY LABEL ,\,DG.RESET-BUTTON-BM ID BUTTONS)
    '(TYPE NWAY LABEL ,\,DG.CANCEL-BUTTON-BM ID BUTTONS))))))
```

(DG.CREATE-BACKUP-NAME

```
(LAMBDA (F CURRENT-PATH CURRENT-DIRECTORY) (* |edited:| " 5-Apr-85 10:34")
  (PROG (SECOND-HALF FILE-BACKUP-NAME)
    (SETQ SECOND-HALF (SUBSTRING (FILENAMEFIELD F 'DIRECTORY)
    (IPLUS 2 (NCHARS (DG.CREATE-DIRECTORY-CHAIN (CDR CURRENT-PATH))))
    (NCHARS (FILENAMEFIELD F 'DIRECTORY))))
    (SETQ FILE-BACKUP-NAME (PACKFILENAME 'DIRECTORY (COND
      (SECOND-HALF (DG.CREATE-DIRECTORY-CHAIN
        (LIST (CAR CURRENT-DIRECTORY)
        SECOND-HALF))
      (T (CAR CURRENT-DIRECTORY)))
      'NAME
      (FILENAMEFIELD F 'NAME)
      'EXTENSION
      (FILENAMEFIELD F 'EXTENSION)
      'VERSION
      (FILENAMEFIELD F 'VERSION))))
    (RETURN (PACK (CDR (UNPACK FILE-BACKUP-NAME))))))
```

(DG.CREATE-DIRECTORY-CHAIN

```
(LAMBDA (PATH) (* |sm| " 9-Jun-85 11:49")
  (COND
    ((NULL PATH)
      '""))
    ((NULL (CDR PATH))
      (CAR PATH))
    (T (PACK* (CAR PATH)
```

'>
(DG.CREATE-DIRECTORY-CHAIN (CDR PATH))))))

(DG.CREATE-DIRECTORY-SPEC

(* |edited:| "31-Dec-00 22:14")

(LAMBDA (PATH WINDOW)
(PROG (CURRENT-DIRECTORY SPEC)
(SETQ CURRENT-DIRECTORY (DG.FIND-DIRECTORY-SUBTREE PATH WINDOW))
(SETQ SPEC (DG.CREATE-PREFIX-FROM-PATH PATH))
(|for| SUB |in| (CDR CURRENT-DIRECTORY) |do| (SETQ SPEC (LIST SPEC '- (DG.CREATE-PREFIX-FROM-PATH
(APPEND PATH (LIST (CAR SUB)))))))
(RETURN SPEC))))

(DG.CREATE-DIRECTORY-TREE

(* |edited:| "13-May-86 12:34")

(LAMBDA (PATH)
(PROG (TREE-PATHS ROOT TREE)
(SETQ TREE-PATHS (|for| F |in| (DIRECTORY (DG.CREATE-PREFIX-FROM-PATH PATH))
|collect| (NTH (DG.CREATE-PATH-FROM-FILE-NAME F)
(LENGTH PATH))))
(SETQ TREE-PATHS (DG.SETIFY TREE-PATHS))
(SETQ TREE (CAR (DG.CREATE-TREE-FROM-LISTS TREE-PATHS)))
(|if| TREE
|then| (RETURN TREE)
|else| (RETURN (LAST PATH))))))

(DG.CREATE-GRAPH-FROM-TREE

(* |edited:| "13-May-86 14:09")

(LAMBDA (TREE)
(DECLARE (GLOBALVARS DG.VERTICAL-HORIZONTAL-OPTION DG.GRAPH-LABEL-FONT))
(PROG (NODE-LIST)
(SETQ NODE-LIST (DG.CREATE-TREE-NODES TREE NIL))
(RETURN (LAYOUTGRAPH (CDR NODE-LIST)
(LIST (CAR NODE-LIST))
(LIST DG.VERTICAL-HORIZONTAL-OPTION)
DG.GRAPH-LABEL-FONT))))

(DG.CREATE-ICON-TITLE

(* |edited:| " 5-Apr-85 11:16")

(LAMBDA (L)
(COND
(L (COND
((GREATERP (LENGTH L)
3)
(SETQ L (CDR (LASTN L 3))))
(APPLY 'CONCAT (CONS (DG.TRIM (CAR L)
11)
(|for| W |in| (CDR L) |collect| (CONCAT (CHARACTER 13)
(DG.TRIM W 11))))))
(T " "))))

(DG.CREATE-MENU

(* |edited:| "16-May-86 16:19")

(LAMBDA (WINDOW)
(DECLARE (GLOBALVARS DG.MENU-EDGE DG.MENU-FONT))
(PROG (MENUITEMS TEMP)
(SETQ MENUITEMS '(("Create Dir" DG.CREATE-SUBDIR-COMMAND "Creates subdirectory. Will wait for parent
directory selection, and prompt for subdirectory name")
("Delete Dir" DG.DELETE-DIRECTORY-COMMAND "Will delete entire directory including
all files in subdirectories. Will wait for directory selection and if the
directory is nonempty it will ask for confirmation")
("Backup Dir" DG.BACKUP-ON-SELECTED-COMMAND "Will ask you to select the directory on which the
which the backup should be stored" (SUBITEMS ("On default"
DG.BACKUP-ON-DEFAULT-COMMAND
"Will backup the selected
directory on the default
backup directory (the
value of
DG.DEFAULT-BACKUP-DIRECTO
) ")
("On selected"
DG.BACKUP-ON-SELECTED-COMMAND
"Will ask you to select the
directory on which the
backup should be stored")))
("Restore Dir" DG.RESTORE-FROM-SELECTED-COMMAND "Will ask you to select the
directory from where the backup should be restored" (SUBITEMS ("From
default"
DG.RESTORE-FROM-DEFAULT-COMMAND
"Will
restore
the
selected
director
from the

RY

Y


```

default
backup
director

(the
value of
DG.DEFAU

) ")
("From selected"

DG.RESTORE-FROM-SELECTED-COMMAND
  "Will ask you to
  select the
  directory from
  where the backup
  should be
  restored"))
("Move Dir" DG.MOVE-DIR-COMMAND "Will move the selected directory (including
subdirectories) to a new parent directory.")
("Copy Dir" DG.COPY-DIRECTORY-COMMAND "Will copy the selected directory (including
subdirectories) to a new parent directory.")
("Connect Dir" DG.CONNECT-DIR-COMMAND "Changes the current directory")
("Apply DG" DG.APPLY-DIRGRAPHER-COMMAND "Calls DirGrapher on the selected
directory")
("Apply FB" DG.APPLY-FILEBROWSER-COMMAND "Calls FileBrowser on files in the selected
directory (but not files in the subdirectories).") (SUBITEMS ("on directory
only"
  DG.APPLY-FILEBROWSER-COMMAND
    "Calls
    FileBrows
    on files
    in the
    selected
    directory
    (but not
    files in
    the
    subdirect
    ories).")
    ("On directory and
    subdirectories"
    DG.APPLY-FB-ON-DIR-AND-SUBDIRS-COMMAND
      "Calls FileBrowser
      on files in the
      selected directory
      and
      subdirectories."))
)
("Files" NULL " The subitems of the <Files> item manipulate files within selected
directories" (SUBITEMS ("Move Files" DG.MOVE-FILE-COMMAND "Will ask you to
select: (1) source directory, (2) files to be
moved, and (3) target directory.")
("Copy Files" DG.COPY-FILE-COMMAND "Will ask you to
select: (1) source directory, (2) files to be
copied, and (3) target directory.")
("Load Files" (DG.LOAD-FILES-COMMAND LOAD NIL)
  "Will ask you to select a directory and files to
  be loaded"
  (SUBITEMS ("LOAD" (DG.LOAD-FILES-COMMAND LOAD NIL
    )
    "Will ask you to select a
    directory and files to be
    loaded"
    (SUBITEMS ("LDFLG=NIL"
      (
        DG.LOAD-FILES-COMMAND
        LOAD NIL))
      ("LDFLG=SYSLOAD"
        (DG.LOAD-FILES-COMMAND
        LOAD SYSLOAD))))
    ("LOAD?" (DG.LOAD-FILES-COMMAND LOAD? NIL)
      "Will ask you to select a directory
      and files to be loaded USING LOAD?
      function"
      (SUBITEMS ("LDFLG=NIL" (
        DG.LOAD-FILES-COMMAND
        LOAD? NIL))
        ("LDFLG=SYSLOAD" (
        DG.LOAD-FILES-COMMAND
        LOAD?
        SYSLOAD))))
    ("LOADFROM" (DG.LOAD-FILES-COMMAND
      LOADFROM NIL)
      "Will ask you to select a directory

```

```

and files to be loaded USING
LOADFROM function"
(SUBITEMS ("LDFLG=NIL" (
DG.LOAD-FILES-COMMAND
LOADFROM NIL
))
("LDFLG=SYSLOAD" (
DG.LOAD-FILES-COMMAND
LOADFROM
SYSLOAD))))

```

```

("Delete Files" DG.DELETE-SELECTED-FILES-COMMAND "Will
ask you to select a directory and files to be
deleted (EXPUNGED)." (SUBITEMS ("Selected Files"
DG.DELETE-SELECTED-FILES-COMMAND
"Will ask you to
select a directory
and files to be
deleted
(EXPUNGED).")
("Old Versions"
DG.DELETE-OLD-VERSIONS-COMMAND
" Will ask you
to select a
directory, and
will delete all
old versions of
files in the
selected
directory. Only
DG.NUMBER-OF-VE
(1 by default)
last versions
will remain")))

```

RSIONS

```

("Info" DG.FILE-INFO-COMMAND "Will ask you to select a
directory, and will display info on selected
files. ")
("Hardcopy" DG.FILES-HARDCOPY-COMMAND "Will ask you to
select a directory and files to be hardcopied."))
("Update" DG.UPDATE-COMMAND "Will update the tree structure according to the current
file system state"))
(|if| (FMEMB DG.MENU-EDGE '(TOP BOTTOM))
|then| (SETQ MENUITEMS (COPY MENUITEMS))
(SETQ TEMP (CADDR MENUITEMS))
(RPLACA (CDDR MENUITEMS)
(CAR (NTH MENUITEMS 8)))
(RPLACA (NTH MENUITEMS 8)
TEMP))
(RETURN (|create| MENU
ITEMS _ MENUITEMS
MENUCOLUMNS _ (|if| (FMEMB DG.MENU-EDGE '(TOP BOTTOM))
|then| 4
|else| 1)
WHENSELECTEDFN _ 'DG.DOCOMMAND
MENUFONT _ DG.MENU-FONT))))

```

(DG.CREATE-PATH-FROM-FILE-NAME

(* |edited:| " 3-Apr-85 15:41")

```

(LAMBDA (FNAME)
(PROG (DIR HOST)
(SETQ DIR (FILENAMEFIELD FNAME 'DIRECTORY))
(SETQ HOST (FILENAMEFIELD FNAME 'HOST))
(RETURN (|if| HOST
|then| (CONS (PACKFILENAME 'HOST (FILENAMEFIELD FNAME 'HOST))
(|if| (NULL DIR)
|then| NIL
|else| (DG.UNPACK-DIRECTORY-NAME (UNPACK DIR))))
|else| (|if| (NULL DIR)
|then| NIL
|else| (DG.UNPACK-DIRECTORY-NAME (UNPACK DIR)))))))

```

(DG.CREATE-PREFIX-FROM-PATH

(* |edited:| "17-Jul-84 14:58")

```

(LAMBDA (PATH)
(COND
((CDR PATH)
(PACK* (CAR PATH)
'<
(PACK (|for| D |in| (CDR PATH) |join| (LIST D '>))))
(T (CAR PATH))))

```

(DG.CREATE-QUIT-MENU

(* |edited:| "12-May-86 13:06")

```

(LAMBDA (WINDOW)
(|create| MENU

```

```

ITEMS _ (SUBST WINDOW 'WINDOW ' (" I n t e r r u p t / R e s e t " (DG.KILL-PROCESS WINDOW)
"Will kill the current DirGrapher process if active, and will
reset the DirGrapher display.)))
CENTERFLG _ T))

```

(DG.CREATE-SUBDIR-COMMAND

(* |edited:| "30-Sep-85 14:45")

```

(LAMBDA (WINDOW)
  (PROG (CURRENT-PATH NEW-DIR-NAME DIRECTORY-SUBTREE)
    (SETQ CURRENT-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select parent directory.")))
    (COND
      (CURRENT-PATH (SETQ DIRECTORY-SUBTREE (DG.FIND-DIRECTORY-SUBTREE CURRENT-PATH WINDOW))
        (TERPRI (DG.PROMPTWINDOW WINDOW))
        (SETQ NEW-DIR-NAME (MKATOM (PROMPTFORWARD (CONCAT "Enter name for new subdirectory (of "
(CAR DIRECTORY-SUBTREE)
") :")
NIL NIL (DG.PROMPTWINDOW WINDOW)
NIL
' TTY)))
      (COND
        ((MEMBER NEW-DIR-NAME (CDR DIRECTORY-SUBTREE)))
        (T (RPLACD DIRECTORY-SUBTREE (CONS (LIST NEW-DIR-NAME)
(CDR DIRECTORY-SUBTREE))))
          (DG.DISPLAY-DIRECTORY-TREE (DG.CREATE-GRAPH-FROM-TREE (WINDOWPROP WINDOW
'DG.TREE)
WINDOW))))))

```

(DG.CREATE-TREE-FROM-LISTS

(* |edited:| "13-May-86 12:10")

```

(LAMBDA (LISTS)
  (PROG (TEMP L2)
    (|for| X |in| LISTS |when| X |do| (COND
      ((NOT (SETQ TEMP (FASSOC (CAR X)
L2)))
        (SETQ L2 (CONS (LIST (CAR X)
(CDR X))
L2)))
      (T (RPLACD TEMP (CONS (CDR X)
(CDR TEMP)))))
      (BLOCK))
    (RETURN (|for| X |in| L2 |collect| (CONS (CAR X)
(DG.CREATE-TREE-FROM-LISTS (CDR X)))))))

```

(DG.CREATE-TREE-NODES

(* |edited:| " 3-Apr-85 22:05")

```

(LAMBDA (TREE FORMER-PATH)
  (PROG (CURRENT-ID TO-NODES CURRENT-NODE)
    (COND
      (TREE (RETURN (CONS (SETQ CURRENT-ID (APPEND FORMER-PATH (LIST (CAR TREE))))
(CONS (SETQ CURRENT-NODE (|create| GRAPHNODE
NODEID _ CURRENT-ID
NODELABEL _ (CAR TREE)
FROMNODES _ (LIST FORMER-PATH)
NODEBORDER _ -2))
      (PROG (SON-LIST)
        (SETQ SON-LIST (|for| SON |in| (CDR TREE)
|join| (PROG (N-LIST)
          (SETQ N-LIST (DG.CREATE-TREE-NODES
SON CURRENT-ID))
          (SETQ TO-NODES (CONS (CAR N-LIST)
TO-NODES))
          (RETURN (CDR N-LIST))))))
        (|replace| TONODES |of| CURRENT-NODE |with| TO-NODES)
        (RETURN SON-LIST))))))

```

(DG.CREATEICONW

(* |edited:| " 5-Apr-85 11:13")

```

(LAMBDA (WINDOW ICON)
  (COND
    ((NULL ICON)
      (SETQ ICON (TITLEDICONW (|create| TITLEDICON
ICON _ DG.ICON
MASK _ DG.MASK
TITLEREG _ (CREATEREGION 5 5 65 60))
(WINDOWPROP WINDOW 'DG.ICONTITLE)
DG.ICONFONT))))
  ICON))

```

(DG.CURRENT-CONNECTED-DIRECTORY

(* |edited:| "22-May-85 13:55")

```

(LAMBDA NIL
  (PROG (CURRENT-DIR)
    (SETQ CURRENT-DIR (DIRECTORYNAME T T))
    (|if| (NOT (FMEMB (CAR (LAST (UNPACK CURRENT-DIR)))
' ( ) >)))
      |then| (RETURN (PACK* CURRENT-DIR '>))
      |else| (RETURN CURRENT-DIR))))

```

(DG.DELETE-DIRECTORY-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| "19-Apr-85 14:23")
  (PROG (CURRENT-PATH CURRENT-DIRECTORY FATHER-DIRECTORY FILES-TO-BE-DELETED NUMBER-OF-FILES)
    (SETQ CURRENT-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory to be deleted")))
    (COND
      (CURRENT-PATH (INVERTW WINDOW)
        (SETQ FILES-TO-BE-DELETED (DIRECTORY (DG.CREATE-PREFIX-FROM-PATH CURRENT-PATH)))
        (INVERTW WINDOW)
        (SETQ NUMBER-OF-FILES (LENGTH FILES-TO-BE-DELETED))
        (COND
          ((GREATERP NUMBER-OF-FILES 0)
            (|printout| (DG.PROMPTWINDOW WINDOW)
              T "CAUTION !!! " NUMBER-OF-FILES " files are going to be deleted !!! " "Confirm
                with left button .")
            (FLASHWINDOW (DG.PROMPTWINDOW WINDOW)
              2)
            (COND
              ((MOUSECONFIRM)
                (INVERTW WINDOW)
                (|for| F |in| FILES-TO-BE-DELETED |do| (DELFILE F)
                  (|printout| (DG.PROMPTWINDOW WINDOW)
                    T "File " F " was deleted."))
                (INVERTW WINDOW)
                (T (|printout| (DG.PROMPTWINDOW WINDOW)
                  T "Delete directory aborted."))
                (RETURN NIL))))))
          (COND
            (EQUAL CURRENT-PATH (WINDOWPROP WINDOW 'DG.PATH-TO-ROOT))
            (CLOSEW WINDOW)
            (RETURN NIL)))
          (DG.DELETE-FROM-TREE CURRENT-PATH WINDOW))))))
```

(DG.DELETE-FROM-TREE

```
(LAMBDA (PATH WINDOW) (* |edited:| "13-May-86 13:58")
  (PROG (PARENT-AND-SON FATHER-DIRECTORY)
    (SETQ PARENT-AND-SON (DG.FIND-PARENT-DIRECTORY PATH WINDOW))
    (SETQ FATHER-DIRECTORY (CAR PARENT-AND-SON))
    (RPLACD FATHER-DIRECTORY (REMOVE (CADR PARENT-AND-SON)
      (CDR FATHER-DIRECTORY)))
    (DG.DISPLAY-DIRECTORY-TREE (DG.CREATE-GRAPH-FROM-TREE (WINDOWPROP WINDOW 'DG.TREE)
      WINDOW))))
```

(DG.DELETE-OLD-VERSIONS-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| "13-May-86 12:07")
  (PROG (SOURCE-PATH SELECTED-FILES SOURCE-PREFIX MENU-WINDOW SOURCE-PATH-WINDOW)
    (SETQ SOURCE-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory from which you want to
      delete old versions of files.")))
    (COND
      (SOURCE-PATH (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
        (SETQ SELECTED-FILES (DG.EXCLUSIVE-OLD-VERSIONS SOURCE-PREFIX))
        (|if| SELECTED-FILES
          |then| (PRINTOUT (DG.PROMPTWINDOW WINDOW)
            T " " (LENGTH SELECTED-FILES)
            " files will be DELETED from " SOURCE-PREFIX " . Approve with left button.
          ")
          (|if| (MOUSECONFIRM)
            |then| (INVERTW WINDOW)
              (|for| FILE |in| SELECTED-FILES |do| (DELFILE FILE)
                (PRINTOUT (DG.PROMPTWINDOW WINDOW)
                  T FILE " was deleted. ")
                (BLOCK))
              (INVERTW WINDOW)
              |else| (PRINTOUT (DG.PROMPTWINDOW WINDOW)
                T " Delete files aborted.")))
            (DETACHWINDOW MENU-WINDOW)
            (CLOSEW MENU-WINDOW))))))
```

(DG.DELETE-SELECTED-FILES-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| "13-May-86 16:31")
  (DECLARE (GLOBALVARS HIGHLIGHTSHADE))
  (PROG (SOURCE-PATH SELECTED-FILES SOURCE-PREFIX MENU-WINDOW SOURCE-PATH-WINDOW)
    (SETQ SOURCE-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory from which you want to
      delete selected files.")))
    (COND
      (SOURCE-PATH (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
        (SETQ MENU-WINDOW (DG.GET-FILE-LIST (CONCAT " The selected files will be " " DELETED
          (EXPUNGED) " " from " SOURCE-PREFIX " .")
          WINDOW SOURCE-PATH WINDOW))
        (SETQ SELECTED-FILES (WINDOWPROP MENU-WINDOW 'DG.SELECTED-FILES))
        (|if| SELECTED-FILES
          |then| (PRINTOUT (DG.PROMPTWINDOW WINDOW)
            T " " (LENGTH SELECTED-FILES)
```

```

" )
      " files will be DELETED from " SOURCE-PREFIX " . Approve with left button.
      (|if| (MOUSECONFIRM)
        |then| (INVERTW WINDOW)
              (|for| FILE |in| SELECTED-FILES
                |do| (DELFILE (PACK* SOURCE-PREFIX FILE))
                    (SHADEITEM FILE (CAR (WINDOWPROP MENU-WINDOW 'MENU))
                      HIGHLIGHTSHADE MENU-WINDOW)
                    (BLOCK))
                  (INVERTW WINDOW)
                |else| (PRINTOUT (DG.PROMPTWINDOW WINDOW)
                          T " Delete files aborted.)))
        (DETACHWINDOW MENU-WINDOW)
        (CLOSEW MENU-WINDOW))))))

```

(DG.DIRECTORY-MINUS-PREFIX

(* |edited:| "27-Mar-85 23:50")

```

(LAMBDA (DIRECTORY PREFIX)
  (COND
    (PREFIX (SUBATOM DIRECTORY (IPLUS 2 (NCHARS PREFIX))
      (NCHARS DIRECTORY)))
    (T DIRECTORY))))

```

(DG.DIRECTORY-SELECTION-FUNCTION

(* |edited:| "13-May-86 14:26")

```

(LAMBDA (SELECTED-OBJ G-WINDOW)
  (DECLARE (GLOBALVARS DG.LAST-DIRECTORY-SELECTED DG.WINDOW-OF-LAST-DIRECTORY DG.DIRECTORY-WAS-SELECTED-EVENT)
  )
  (PROG (CURRENT-NODE)
    (COND
      (SELECTED-OBJ (SETQ DG.LAST-DIRECTORY-SELECTED (APPEND (WINDOWPROP G-WINDOW 'DG.PATH-TO-ROOT)
        (CDR (|fetch| NODEID |of| SELECTED-OBJ))))
        (SETQ DG.WINDOW-OF-LAST-DIRECTORY G-WINDOW)))
      (NOTIFY.EVENT DG.DIRECTORY-WAS-SELECTED-EVENT T))))

```

(DG.DISPLAY-DIRECTORY-TREE

(* |sm| " 8-Jul-85 17:27")

```

(LAMBDA (GRAPH WINDOW)
  (SHOWGRAPH GRAPH WINDOW 'DG.DIRECTORY-SELECTION-FUNCTION 'DG.DIRECTORY-SELECTION-FUNCTION)
  (WINDOWPROP WINDOW 'REPAINTFN (CONS 'DG.REDISPLAYFN (MKLIST (WINDOWPROP WINDOW 'REPAINTFN))))
  (WINDOWPROP WINDOW 'COPYBUTTONEVENTFN 'DG.COPYBUTTONEVENTFN)
  (DG.SHADE-CURRENT-DIRECTORY WINDOW)))

```

(DG.DOCOMMAND

(* |edited:| "13-May-86 14:27")

```

(LAMBDA (ITEM MENU KEY)
  (DECLARE (GLOBALVARS DG.CONCURRENT DG.CONCURRENT-ALL DG.MONITOR-LOCK))
  (PROG (WINDOW)
    (SETQ WINDOW (MAINWINDOW (WFROMMENU MENU)))
    (COND
      ((NOT DG.CONCURRENT-ALL)
        (DG.DOCOMMAND-WITH-MONITOR DG.MONITOR-LOCK WINDOW ITEM MENU))
      ((NOT DG.CONCURRENT)
        (DG.DOCOMMAND-WITH-MONITOR (WINDOWPROP WINDOW 'DG.LOCK)
          WINDOW ITEM MENU))
      (T (DG.DOCOMMAND-WITHOUT-MONITOR WINDOW ITEM MENU))))))

```

(DG.DOCOMMAND-WITH-MONITOR

(* |edited:| " 8-May-86 12:10")

```

(LAMBDA (MONITOR-LOCK WINDOW ITEM MENU)
  (PROG (PARENT-ITEM)
    (SETQ PARENT-ITEM (DG.FIND-MENU-ITEM ITEM (|fetch| ITEMS |of| MENU)))
    (WINDOWPROP WINDOW 'DG.PROCESS
      (ADD.PROCESS (SUBPAIR ' (MONITOR-LOCK WINDOW MENU ITEM PARENT-ITEM)
        (LIST MONITOR-LOCK WINDOW MENU ITEM PARENT-ITEM)
        ' (PROGN (WITH.MONITOR MONITOR-LOCK
          (TTYDISPLAYSTREAM (DG.PROMPTWINDOW WINDOW))
          (SHADEITEM 'PARENT-ITEM MENU GRAYSHADE)
          (WINDOWPROP WINDOW 'DG.UNSHADE-IF-SHADED
            ' (SHADEITEM 'PARENT-ITEM MENU WHITESHADE)))
          (CLEARW (DG.PROMPTWINDOW WINDOW))
          (IF (ATOM (CADR 'ITEM))
            THEN (APPLY* (CADR 'ITEM)
              WINDOW)
            ELSE (APPLY (CAADR 'ITEM)
              (CONS WINDOW (CDADR 'ITEM))))
          (PRINTOUT (DG.PROMPTWINDOW WINDOW)
            T
            (CAR 'PARENT-ITEM)
            " Completed. ")
          (WINDOWPROP WINDOW 'DG.UNSHADE-IF-SHADED NIL)
          (SHADEITEM 'PARENT-ITEM MENU WHITESHADE)
          (WINDOWPROP WINDOW 'DG.SHADED-ITEM NIL)
          (WINDOWPROP WINDOW 'DG.PROCESS NIL))))
        ' WINDOW
        (DG.PROMPTWINDOW WINDOW)
        ' NAME

```

(CAR PARENT-ITEM))))))

(DG.DOCOMMAND-WITHOUT-MONITOR

(* |edited:| "8-May-86 12:10")

```
(LAMBDA (WINDOW ITEM MENU)
  (WINDOWPROP WINDOW 'DG.PROCESS (ADD.PROCESS
    (SUBPAIR '(WINDOW MENU ITEM)
      (LIST WINDOW MENU ITEM)
      '(PROGN (TTYDISPLAYSTREAM (DG.PROMPTWINDOW WINDOW))
        (SHADEITEM 'ITEM MENU GRAYSHADE)
        (WINDOWPROP WINDOW 'DG.SHADED-ITEM 'ITEM)
        (CLEARW (DG.PROMPTWINDOW WINDOW))
        (IF (ATOM (CADR 'ITEM))
          THEN (APPLY* (CADR 'ITEM)
            WINDOW)
          ELSE (APPLY (CAADR 'ITEM)
            (CONS WINDOW (CDADR 'ITEM))))))
    (PRINTOUT (DG.PROMPTWINDOW WINDOW)
      T
      (CAR 'ITEM)
      " Completed. ")
    (SHADEITEM 'ITEM MENU WHITESHADE)
    (WINDOWPROP WINDOW 'DG.SHADED-ITEM NIL)
    (WINDOWPROP WINDOW 'DG.PROCESS NIL)))
  'WINDOW
  (DG.PROMPTWINDOW WINDOW)
  'NAME
  (CAR ITEM))))))
```

(DG.EXCLUSIVE-DIRECTORY

(* |edited:| "22-May-85 12:23")

```
(LAMBDA (DIRECTORY-PATTERN)
  (PROG (CURRENT-DIRECTORY)
    (SETQ CURRENT-DIRECTORY (FILENAMEFIELD DIRECTORY-PATTERN 'DIRECTORY))
    (RETURN (|for| F |in| (DIRECTORY DIRECTORY-PATTERN) |when| (EQ (FILENAMEFIELD F 'DIRECTORY)
      CURRENT-DIRECTORY)
      |collect| F))))))
```

(DG.EXCLUSIVE-NEW-VERSIONS

(* |edited:| "16-May-86 16:24")

```
(LAMBDA (DIRECTORY-PATTERN)
  (PROG (CURRENT-DIRECTORY)
    (SETQ CURRENT-DIRECTORY (FILENAMEFIELD DIRECTORY-PATTERN 'DIRECTORY))
    (RETURN (|for| FILE |in| (|for| F |in| (DIRECTORY DIRECTORY-PATTERN) |when| (EQ (FILENAMEFIELD F 'DIRECTORY)
      CURRENT-DIRECTORY)
      |collect| F)
      |when| (EQUAL FILE (INFILEP (PACKFILENAME.STRING 'VERSION NIL 'BODY FILE))) |collect| FILE))))))
```

(DG.EXCLUSIVE-OLD-VERSIONS

(* |edited:| "7-May-86 17:59")

```
(LAMBDA (DIRECTORY-PATTERN)
  (PROG (CURRENT-DIRECTORY)
    (SETQ CURRENT-DIRECTORY (FILENAMEFIELD DIRECTORY-PATTERN 'DIRECTORY))
    (RETURN (|for| FILE |in| (|for| F |in| (DIRECTORY DIRECTORY-PATTERN) |when| (EQ (FILENAMEFIELD F 'DIRECTORY)
      CURRENT-DIRECTORY)
      |collect| F)
      |when| (NOT (EQUAL FILE (INFILEP (PACKFILENAME.STRING 'VERSION NIL 'BODY FILE))))
      |collect| FILE))))))
```

(DG.FBICONFN

(* |edited:| "13-May-86 14:25")

```
(LAMBDA (WINDOW ICON)
  (DECLARE (GLOBALVARS FILEDRAWER FILEDRAWERREGION DG.ICONFONT))
  (COND
    ((NULL ICON)
      (SETQ ICON (TITLEDICONW (|create| TITLEDICON
        ICON _ FILEDRAWER
        TITLEREG _ FILEDRAWERREGION)
        (DG.CREATE-ICON-TITLE (DG.CREATE-PATH-FROM-FILE-NAME (DG.GET-FB-PATTERN WINDOW))
          DG.ICONFONT)))
      ((ICONW.TITLE ICON (DG.CREATE-ICON-TITLE (DG.CREATE-PATH-FROM-FILE-NAME (DG.GET-FB-PATTERN WINDOW))))))
    (ICON))
```

(DG.FILE-SELECTION-FN

(* |edited:| "13-May-86 14:08")

```
(LAMBDA (ITEM MENU KEY)
  (DECLARE (GLOBALVARS WHITESHADE BLACKSHADE))
  (PROG (WINDOW)
    (SETQ WINDOW (WFROMMENU MENU))
    (COND
      ((EQ ITEM '\ STOP)
        (NOTIFY.EVENT (WINDOWPROP (MAINWINDOW WINDOW)
          'DG.FILE-SELECTION-ENDED-EVENT)))
      ((EQUAL ITEM " ")
        (ITEM (COND
          ((FMEMB ITEM (WINDOWPROP WINDOW 'DG.SELECTED-FILES))
            (WINDOWDELPROP WINDOW 'DG.SELECTED-FILES ITEM))
```

```
(SHADEITEM ITEM MENU WHITESHAE WINDOW))
(T (WINDOWADDPROP WINDOW 'DG.SELECTED-FILES ITEM
(SHADEITEM ITEM MENU BLACKSHAE WINDOW))))))
```

(DG.FILECOPY

```
(LAMBDA (F1 F2 OVER-FLAG) (* |edited:| " 6-Mar-86 15:06")
(COND
((DG.FILE-EXISTS F2)
(COND
((OR OVER-FLAG (DG.NEWER-FILE F1 F2))
(DELFILE F2)
(COPYFILE F1 F2))
(T NIL)))
(T (COPYFILE F1 F2)
T))))
```

(DG.FIND-DIRECTORY-SUBTREE

```
(LAMBDA (PATH WINDOW) (* |edited:| "31-Dec-00 22:10")
(PROG (DIRECTORY-SUBTREE)
(SETQ PATH (NTH PATH (LENGTH (WINDOWPROP WINDOW 'DG.PATH-TO-ROOT))))
(SETQ DIRECTORY-SUBTREE (LIST (WINDOWPROP WINDOW 'DG.TREE)))
(|for| X |in| PATH |do| (SETQ DIRECTORY-SUBTREE (FASSOC X DIRECTORY-SUBTREE)))
(RETURN DIRECTORY-SUBTREE))))
```

(DG.FIND-MENU-ITEM

```
(LAMBDA (ITEM ITEM-LIST) (* |edited:| "26-Sep-85 14:19")
(COND
((NULL ITEM-LIST)
NIL)
((ATOM ITEM-LIST)
NIL)
((FMEMB ITEM ITEM-LIST)
ITEM)
((AND (CDDDR (CAR ITEM-LIST))
(EQ (CAR (CADDDR (CAR ITEM-LIST)))
'SUBITEMS)
(DG.FIND-MENU-ITEM ITEM (CDR (CADDDR (CAR ITEM-LIST))))))
(CAR ITEM-LIST))
(T (DG.FIND-MENU-ITEM ITEM (CDR ITEM-LIST))))))
```

(DG.FIND-PARENT-DIRECTORY

```
(LAMBDA (PATH WINDOW) (* |edited:| "30-Mar-85 16:29")
(PROG (FATHER-DIRECTORY CURRENT-DIRECTORY)
(SETQ FATHER-DIRECTORY (WINDOWPROP WINDOW 'DG.TREE))
(SETQ PATH (CDR (DG.RESIDUAL-PATH WINDOW PATH)))
(|while| (AND (SETQ CURRENT-DIRECTORY (FASSOC (CAR PATH)
FATHER-DIRECTORY))
(CDR PATH))
|do| (SETQ FATHER-DIRECTORY CURRENT-DIRECTORY)
(SETQ PATH (CDR PATH)))
(|if| (NOT (LISTP CURRENT-DIRECTORY))
|then| (RETURN (LIST NIL FATHER-DIRECTORY))
|else| (RETURN (LIST FATHER-DIRECTORY CURRENT-DIRECTORY))))))
```

(DG.FLASHALLWINDOWS

```
(LAMBDA (WINDOW) (* |edited:| " 3-Apr-85 16:21")
(|for| W |in| (CONS WINDOW (ATTACHEDWINDOWS WINDOW)) |do| (FLASHWINDOW W)))
```

(DG.GET-FB-PATTERN

```
(LAMBDA (W) (* |edited:| " 7-May-86 12:50")
(FETCHFIELD '(FILEBROWSER 14 POINTER)
(WINDOWPROP (MAINWINDOW W)
'FILEBROWSER)))
```

(DG.GET-FILE-LIST

```
(LAMBDA (MESSAGE WINDOW SOURCE-PATH SOURCE-WINDOW) (* |edited:| "16-May-86 16:16")
(PROG (MENU-WINDOW)
(INVERTW WINDOW)
(SETQ MENU-WINDOW (DG.ATTACH-DIRECTORY-FILES-MENU SOURCE-PATH SOURCE-WINDOW WINDOW))
(INVERTW WINDOW)
(|if| MENU-WINDOW
|then| (WINDOWPROP MENU-WINDOW 'DG.DETACH T)
(CLEARW (DG.PROMPTWINDOW WINDOW))
(|printout| (DG.PROMPTWINDOW WINDOW)
"Select files from menu. When done select STOP." T MESSAGE)
(AWAIT.EVENT (WINDOWPROP WINDOW 'DG.FILE-SELECTION-ENDED-EVENT)
100000))
(RETURN MENU-WINDOW)))
```

(DG.GET-INITIAL-REGION

```
(LAMBDA (GRAPH) ; Edited 19-Aug-87 08:55 by sml
  (DECLARE (GLOBALVARS DG.MAX-WIDTH DG.MAX-HEIGHT DG.MIN-WIDTH DG.MIN-HEIGHT))
  ;; Edited by sml to use WIDTHIFWINDOW and HEIGHTIFWINDOW
  (LET ((G-REGION (GRAPHREGION GRAPH))
        (GETMOUSESTATE)
        (GETREGION (MIN DG.MAX-WIDTH (WIDTHIFWINDOW (MAX (|fetch| WIDTH |of| G-REGION)
                                                           DG.MIN-WIDTH))))
                (MIN DG.MAX-HEIGHT (HEIGHTIFWINDOW (MAX (|fetch| HEIGHT |of| G-REGION)
                                                         DG.MIN-HEIGHT)
              T))))))
```

(DG.KILL-PROCESS

```
(LAMBDA (WINDOW) (* |edited:| "12-May-86 13:03")
  (COND
    ((WINDOWPROP WINDOW 'DG.PROCESS)
     (DEL.PROCESS (WINDOWPROP WINDOW 'DG.PROCESS))
     (DG.FLASHALLWINDOWS WINDOW)
     (CLEARW (DG.PROMPTWINDOW WINDOW))
     (|printout| (DG.PROMPTWINDOW WINDOW)
                "User interrupt. Directory Grapher process aborted."))
    (|for| W |in| (ATTACHEDWINDOWS WINDOW) |when| (WINDOWPROP W 'DG.DETACH) |do| (DETACHWINDOW W)
              (CLOSEW W))
    (WINDOWPROP (DG.PROMPTWINDOW WINDOW)
                 'TITLE NIL)
    (REDISPLAYW WINDOW)
    (EVAL (WINDOWPROP WINDOW 'DG.UNSHADE-IF-SHADED))
    (WINDOWPROP WINDOW 'DG.PROCESS NIL)))
```

(DG.MOVE-DIR-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| " 2-Apr-85 18:02")
  (DG.MOVECOPY-DIR-COMMAND WINDOW T))
```

(DG.MOVE-FILE-COMMAND

```
(LAMBDA (WINDOW) (* |edited:| " 2-Apr-85 18:05")
  (DG.MOVECOPY-COMMAND WINDOW T))
```

(DG.MOVECOPY-COMMAND

```
(LAMBDA (WINDOW MOVE) (* |edited:| "20-May-86 23:22")
  (DECLARE (GLOBALVARS DG.COPY-OVER HIGHLIGHTSHADE))
  (PROG (TARGET-PATH SOURCE-PATH SELECTED-FILES TARGET-PREFIX SOURCE-PREFIX MENU-WINDOW SOURCE-WINDOW
        SOURCE-PATH-WINDOW)
    (SETQ SOURCE-PATH-WINDOW (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select source directory " T))
    (SETQ SOURCE-WINDOW (CADR SOURCE-PATH-WINDOW))
    (SETQ SOURCE-PATH (CAR SOURCE-PATH-WINDOW))
    (COND
      (SOURCE-PATH (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
        (SETQ TARGET-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select target directory " T)))
        (|if| TARGET-PATH
          |then| (SETQ TARGET-PREFIX (DG.CREATE-PREFIX-FROM-PATH TARGET-PATH))
                (SETQ MENU-WINDOW (DG.GET-FILE-LIST (CONCAT " The selected files will be "
                                                           (|if| MOVE
                                                           |then| " MOVED "
                                                           |else| " COPIED ")
                                                           " from " SOURCE-PREFIX " to "
                                                           TARGET-PREFIX ".")
              WINDOW SOURCE-PATH SOURCE-WINDOW))
          (SETQ SELECTED-FILES (WINDOWPROP MENU-WINDOW 'DG.SELECTED-FILES))
          (|if| SELECTED-FILES
            |then| (INVERTW WINDOW)
                  (|for| FILE |in| SELECTED-FILES
                    |do| (|if| (DG.FILECOPY (PACK* SOURCE-PREFIX FILE)
                                           (PACK* TARGET-PREFIX FILE)
                                           DG.COPY-OVER)
                              |then| (|printout| (DG.PROMPTWINDOW WINDOW)
                                                T FILE " : " SOURCE-PREFIX " --> " TARGET-PREFIX)
                              |else| (|printout| (DG.PROMPTWINDOW WINDOW)
                                                T FILE " already exists and was not copied. "))
                            (|if| MOVE
                              |then| (DELFILE (PACK* SOURCE-PREFIX FILE)))
                            (SHADEITEM FILE (CAR (WINDOWPROP MENU-WINDOW 'MENU))
                                         HIGHLIGHTSHADE MENU-WINDOW)
                            (BLOCK))
                            (INVERTW WINDOW))
                    (DETACHWINDOW MENU-WINDOW)
                    (CLOSEW MENU-WINDOW))))))
```

(DG.MOVECOPY-DIR-COMMAND

```
(LAMBDA (WINDOW MOVE) (* |edited:| "13-May-86 14:13")
  (DECLARE (GLOBALVARS DG.COPY-OVER))
  (PROG (TARGET-PATH SOURCE-PATH SELECTED-FILES TARGET-PREFIX SOURCE-PREFIX SOURCE-WINDOW-PATH MENU-WINDOW
```



```

SOURCE-FATHER-SON TARGET-FATHER-SON TARGET-PATH-WINDOW SOURCE-WINDOW TARGET-WINDOW FILE-NAME
NEW-NAME NEW-PREFIX)
(SETQ SOURCE-WINDOW-PATH (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select the directory that you want to
transfer." T))
(SETQ SOURCE-PATH (CAR SOURCE-WINDOW-PATH))
(SETQ SOURCE-WINDOW (CADR SOURCE-WINDOW-PATH))
(COND
  (SOURCE-PATH (INVERTW WINDOW)
    (SETQ SOURCE-PREFIX (DG.CREATE-PREFIX-FROM-PATH SOURCE-PATH))
    (SETQ SELECTED-FILES (DIRECTORY SOURCE-PREFIX))
    (INVERTW WINDOW)
    (SETQ TARGET-PATH-WINDOW (DG.WAIT-FOR-DIR-SELECTION WINDOW (CONCAT "Select new parent for
directory "
(CAR (LAST SOURCE-PATH)))
T))
    (SETQ TARGET-PATH (CAR TARGET-PATH-WINDOW))
    (|if| (AND MOVE (GREATERP (LENGTH TARGET-PATH)
(LENGTH SOURCE-PATH))
(|for| A1 |in| SOURCE-PATH |as| A2 |in| TARGET-PATH |always| (EQUAL A1 A2)))
|then| (DG.FLASHALLWINDOWS WINDOW)
(|printout| (DG.PROMPTWINDOW WINDOW)
T "Can not move a directory to its descendants")
(RETURN NIL))
    (SETQ TARGET-WINDOW (CADR TARGET-PATH-WINDOW))
    (COND
      (TARGET-PATH
        (INVERTW WINDOW)
        (SETQ TARGET-PREFIX (DG.CREATE-PREFIX-FROM-PATH TARGET-PATH))
        (|for| FILE |in| SELECTED-FILES
          |do| (|if| (DG.FILECOPY FILE (SETQ NEW-NAME (PACK* (SETQ NEW-PREFIX
(DG.CREATE-PREFIX-FROM-PATH
(APPEND TARGET-PATH
(NTH (
DG.CREATE-PATH-FROM-FILE-NAME
FILE)
(LENGTH SOURCE-PATH))))
)
(SETQ FILE-NAME (
DG.PACK-NAME-VER-EXT
FILE))))
          DG.COPY-OVER)
          |then| (|printout| (DG.PROMPTWINDOW WINDOW)
T FILE-NAME " : " (PACKFILENAME 'HOST (FILENAMEFIELD FILE
'HOST)
'DIRECTORY
(FILENAMEFIELD FILE 'DIRECTORY))
" --> " NEW-PREFIX)
|else| (|printout| (DG.PROMPTWINDOW WINDOW)
T NEW-NAME " already exists and was not copied. "))
          (|if| MOVE
            |then| (DELFILE FILE))
          (BLOCK))
          (SETQ SOURCE-FATHER-SON (DG.FIND-PARENT-DIRECTORY SOURCE-PATH SOURCE-WINDOW))
          (SETQ TARGET-FATHER-SON (DG.FIND-PARENT-DIRECTORY TARGET-PATH TARGET-WINDOW))
          (RPLACD (CADR TARGET-FATHER-SON)
            (CONS (COPY (CADR SOURCE-FATHER-SON))
              (CDR (CADR TARGET-FATHER-SON))))
          (|if| MOVE
            |then| (RPLACD (CAR SOURCE-FATHER-SON)
              (REMOVE (CADR SOURCE-FATHER-SON)
                (CDAR SOURCE-FATHER-SON))))
          (DG.DISPLAY-DIRECTORY-TREE (DG.CREATE-GRAPH-FROM-TREE (WINDOWPROP SOURCE-WINDOW
'DG.TREE))
            SOURCE-WINDOW)
          (|if| (NEQ TARGET-WINDOW SOURCE-WINDOW)
            |then| (DG.DISPLAY-DIRECTORY-TREE (DG.CREATE-GRAPH-FROM-TREE (WINDOWPROP
TARGET-WINDOW
'DG.TREE))
              TARGET-WINDOW)))))))))

```

(DG.PACK-NAME-VER-EXT

```

(LAMBDA (F)
  (PACKFILENAME 'NAME (FILENAMEFIELD F 'NAME)
    'VERSION
    (FILENAMEFIELD F 'VERSION)
    'EXTENSION
    (FILENAMEFIELD F 'EXTENSION)))

```

(* |edited:| " 3-Apr-85 11:31")

(DG.PROMPTWINDOW

```

(LAMBDA (WINDOW)
  (CAR (WINDOWPROP WINDOW 'PROMPTWINDOW)))

```

(* |edited:| "29-Mar-85 16:07")

(DG.REDISPLAYFN

```

(LAMBDA (WINDOW)

```

(* |edited:| "26-Sep-85 15:05")

(DG.SHADE-CURRENT-DIRECTORY WINDOW))

(DG.RESIDUAL-PATH

(LAMBDA (WINDOW PATH) (* |edited:| "29-Mar-85 12:37")
(NTH PATH (LENGTH (WINDOWPROP WINDOW 'DG.PATH-TO-ROOT))))

(DG.RESTORE-COMMAND

(LAMBDA (WINDOW BACKUP-DIR) (* |edited:| "12-May-86 14:57")
(DECLARE (GLOBALVARS DG.FILES-BACKUP-NAMES DG.DIRECTORY-SUBTREE DG.COPY-OVER))
(PROG (TARGET-PATH TARGET-DIRECTORY FILES-TO-BACKUP N OVER-WRITE-FLAG FLOPPY-FILES DSK-FILES
DIRECTORY-INFO-FILE-NAME F-NAME NEW-NAME OVER-FLAG-ASKED UNFOUND-FILES INFO-NAME BACKUP-HOST
FILES-BACKUP-NAMES TARGET-PATH-AND-WINDOW TARGET-WINDOW)
(SETQ TARGET-PATH-AND-WINDOW (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select directory that you want to
restore" T))
(SETQ TARGET-PATH (CAR TARGET-PATH-AND-WINDOW))
(SETQ TARGET-WINDOW (CADR TARGET-PATH-AND-WINDOW))
(SETQ TARGET-DIRECTORY (DG.FIND-DIRECTORY-SUBTREE TARGET-PATH TARGET-WINDOW))
(SETQ BACKUP-HOST (FILENAMEFIELD BACKUP-DIR 'HOST))
(|if| (EQ BACKUP-HOST 'FLOPPY)
|then| (|printout| (DG.PROMPTWINDOW WINDOW)
T "Insert Floppy")
(FLOPPY.WAIT.FOR.FLOPPY))
(|if| (NULL (FILENAMEFIELD BACKUP-DIR 'DIRECTORY))
|then| (SETQ BACKUP-DIR (PACK* BACKUP-DIR '<'))
(INVERTW WINDOW)
(SETQ INFO-NAME (PACK* BACKUP-DIR (CAR TARGET-DIRECTORY)
'>BACKUPINFO))
(|if| (NULL (DIRECTORY INFO-NAME))
|then| (CLEARW (DG.PROMPTWINDOW WINDOW))
(INVERTW WINDOW)
(DG.FLASHALLWINDOWS WINDOW)
(|printout| (DG.PROMPTWINDOW WINDOW)
T "Couldn't find the file " INFO-NAME " . Resore aborted. ")
|else| (PROG NIL
(LOAD INFO-NAME 'SYSLOAD)
(RPLACD TARGET-DIRECTORY (APPEND (CDR TARGET-DIRECTORY)
(|for| SUB |in| (CDR DG.DIRECTORY-SUBTREE)
|when| (NOT (FASSOC (CAR SUB)
(CDR TARGET-DIRECTORY)))
|collect| SUB)))
(DG.DISPLAY-DIRECTORY-TREE (DG.CREATE-GRAPH-FROM-TREE (WINDOWPROP TARGET-WINDOW
'DG.TREE))
TARGET-WINDOW)
(|if| (NEQ TARGET-WINDOW WINDOW)
|then| (INVERTW WINDOW))
(SETQ FILES-BACKUP-NAMES DG.FILES-BACKUP-NAMES)
NEWROUNDFOFCOPY
(INVERTW WINDOW)
(|for| F |in| FILES-BACKUP-NAMES |bind| F-WITH-<
|do| (COND
((DG.FILE-EXISTS (SETQ F-NAME (PACK* BACKUP-DIR F)))
(SETQ NEW-NAME (PACK* (DG.CREATE-PREFIX-FROM-PATH
(APPEND TARGET-PATH (CDR (
DG.CREATE-PATH-FROM-FILE-NAME
(SETQ F-WITH-<
(PACK* '< F))))))
(DG.PACK-NAME-VER-EXT F-WITH-<)))
(COND
((DG.FILECOPY F-NAME NEW-NAME DG.COPY-OVER)
(|printout| (DG.PROMPTWINDOW WINDOW)
T NEW-NAME " Restored.")
(T (|printout| (DG.PROMPTWINDOW WINDOW)
T NEW-NAME " exists and wasn't restored. "))))
(T (COND
((NOT (FMEMB F UNFOUND-FILES))
(SETQ UNFOUND-FILES (CONS F UNFOUND-FILES))))))
(INVERTW WINDOW)
(COND
(UNFOUND-FILES (RINGBELLS)
(DG.FLASHALLWINDOWS WINDOW)
(CLEARW (DG.PROMPTWINDOW WINDOW))
(|if| (EQ BACKUP-HOST 'FLOPPY)
|then| (|printout| (DG.PROMPTWINDOW WINDOW)
(LENGTH UNFOUND-FILES)
" Files were not found on this floppy !! please insert another
one. ")
(SETQ FILES-BACKUP-NAMES UNFOUND-FILES)
(SETQ UNFOUND-FILES NIL)
(FLOPPY.WAIT.FOR.FLOPPY T)
(GO NEWROUNDFOFCOPY)
|else| (|printout| (DG.PROMPTWINDOW WINDOW)
(LENGTH UNFOUND-FILES)
" Files wre not found on the backup directory and were not
restored"))))))))

(DG.RESTORE-FROM-DEFAULT-COMMAND

(* |edited:| "13-May-86 13:57")

```
(LAMBDA (WINDOW)
  (DECLARE (GLOBALVARS DG.DEFAULT-BACKUP-DIRECTORY))
  (|if| (NULL DG.DEFAULT-BACKUP-DIRECTORY)
    |then| (DG.FLASHALLWINDOWS WINDOW)
    (|printout| (DG.PROMPTWINDOW WINDOW)
      T "NULL default directory.Backup aborted")
    |else| (DG.RESTORE-COMMAND WINDOW DG.DEFAULT-BACKUP-DIRECTORY)))
```

(DG.RESTORE-FROM-SELECTED-COMMAND

(* |sm| " 8-Jun-85 13:05")

```
(LAMBDA (WINDOW)
  (PROG (BACKUP-DIRECTORY)
    (SETQ BACKUP-DIRECTORY (DG.CREATE-PREFIX-FROM-PATH (CAR (DG.WAIT-FOR-DIR-SELECTION WINDOW "Select the
      directory that contains the backup."
      T))))
    (DG.RESTORE-COMMAND WINDOW BACKUP-DIRECTORY)))
```

(DG.SETIFY

(* |edited:| "13-May-86 12:10")

```
(LAMBDA (L)
  (PROG (NEW-SET)
    (|for| ONE-ELEMENT |in| L |when| (NOT (MEMBER ONE-ELEMENT NEW-SET)) |do| (SETQ NEW-SET (CONS ONE-ELEMENT
      NEW-SET))
      (BLOCK))
    (RETURN NEW-SET)))
```

(DG.SHADE-CURRENT-DIRECTORY

(* |edited:| "22-May-85 13:56")

```
(LAMBDA (WINDOW)
  (PROG (CURRENT-PATH)
    (SETQ CURRENT-PATH (NTH (DG.CREATE-PATH-FROM-FILE-NAME (DG.CURRENT-CONNECTED-DIRECTORY))
      (LENGTH (WINDOWPROP WINDOW 'DG.PATH-TO-ROOT))))
    (|for| NODE |in| (|fetch| GRAPHNODES |of| (WINDOWPROP WINDOW 'GRAPH))
      |do| (COND
        ((EQUAL CURRENT-PATH (|fetch| NODEID |of| NODE))
          (RESET/NODE/BORDER NODE 2 WINDOW))
        (T (COND
          ((GREATERP (|fetch| NODEBORDER |of| NODE)
            0)
            (RESET/NODE/BORDER NODE -2 WINDOW))))))))))
```

(DG.TRIM

(* |edited:| " 5-Apr-85 11:08")

```
(LAMBDA (W N)
  (COND
    ((GREATERP (NCHARS W)
      N)
      (SUBATOM W 1 N))
    (T W)))
```

(DG.UNADVISE

(* |edited:| "31-Mar-85 23:26")

```
(LAMBDA NIL
  (UNADVISE (\\GENERATENEXTFILE IN FB.UPDATEBROWSERITEMS)))
```

(DG.UNADVISE-GENERATE-FILE

(* |edited:| "31-Mar-85 23:26")

```
(LAMBDA NIL
  (UNADVISE (\\GENERATENEXTFILE IN FB.UPDATEBROWSERITEMS)))
```

(DG.UNPACK-DIRECTORY-NAME

(* |edited:| " 3-Apr-85 17:01")

```
(LAMBDA (NAME)
  (COND
    ((NULL NAME)
      NIL)
    (T (CONS (PACK (PROG (PACKED-NAME)
      LOOP
        (COND
          ((OR (NULL NAME)
            (EQ (CAR NAME)
              '>))
            (RETURN PACKED-NAME))
          (T (SETQ PACKED-NAME (NCONC1 PACKED-NAME (CAR NAME)))
            (SETQ NAME (CDR NAME))
            (GO LOOP))))))
      (DG.UNPACK-DIRECTORY-NAME (CDR NAME))))))
```

(DG.UPDATE-COMMAND

(* |edited:| " 3-Apr-85 13:38")

```
(LAMBDA (WINDOW)
  (INVERTW WINDOW)
  (DG.UPDATE-DIRECTORY-TREE WINDOW)))
```

(DG.UPDATE-DIRECTORY-TREE

```
(LAMBDA (WINDOW) (* |edited:| " 3-Apr-85 22:20")
  (PROG (TREE)
    (SETQ TREE (DG.CREATE-DIRECTORY-TREE (WINDOWPROP WINDOW 'DG.PATH-TO-ROOT)))
    (WINDOWPROP WINDOW 'DG.TREE TREE)
    (DG.DISPLAY-DIRECTORY-TREE (DG.CREATE-GRAPH-FROM-TREE TREE)
      WINDOW)))
```

(DG.UPDATE-DIRECTROY-TREE

```
(LAMBDA (WINDOW) (* |edited:| "30-Mar-85 15:21")
  (PROG (TREE)
    (SETQ TREE (DG.CREATE-DIRECTORY-TREE (WINDOWPROP WINDOW \'DG.PATH-TO-ROOT)))
    (DG.DISPLAY-DIRECTORY-TREE TREE WINDOW)))
```

(DG.WAIT-FOR-DIR-SELECTION

```
(LAMBDA (WINDOW MESSAGE ALLOW-OTHER-WINDOWS) (* |edited:| "13-May-86 14:31")
  (DECLARE (GLOBALVARS DG.LAST-DIRECTORY-SELECTED DG.DIRECTORY-WAS-SELECTED-EVENT DG.WINDOW-OF-LAST-DIRECTORY
    ))
  (PROG (WAITS)
    (SETQ DG.LAST-DIRECTORY-SELECTED NIL)
    (SETQ WAITS 0)
    (|printout| (DG.PROMPTWINDOW WINDOW)
      T MESSAGE)
    WAIT-AGAIN
    (SETQ WAITS (ADD1 WAITS))
    (AWAIT.EVENT DG.DIRECTORY-WAS-SELECTED-EVENT 1000)
    (COND
      ((OR (NULL DG.LAST-DIRECTORY-SELECTED)
        (AND (NOT ALLOW-OTHER-WINDOWS)
          (NEQ DG.WINDOW-OF-LAST-DIRECTORY WINDOW)))
        (COND
          ((GREATERP WAITS 50)
            (RETURN NIL))
          ((ZEROP (IMOD WAITS 10))
            (FLASHWINDOW (DG.PROMPTWINDOW WINDOW))
            (PLAYTUNE (LIST (CONS (ITIMES 100 (IQUOTIENT WAITS 10))
              10000)
              (CONS (ITIMES 100 (ADD1 (IQUOTIENT WAITS 10)))
                10000)
              (CONS (ITIMES 100 (IQUOTIENT WAITS 10))
                10000))))))
            (GO WAIT-AGAIN)))
      (RETURN (LIST DG.LAST-DIRECTORY-SELECTED DG.WINDOW-OF-LAST-DIRECTORY))))))
```

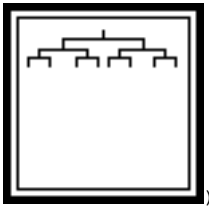
(DIRGRAPHER

```
(LAMBDA ({DEV}<DIR> WINDOW-REGION PATH?) (* |edited:| "13-May-86 14:24")
  (DECLARE (GLOBALVARS DG.DEFAULT-DIR WAITINGCURSOR PROMPTWINDOW DG.MIN-WIDTH DG.MIN-HEIGHT
    DG.PROMPTWINDOWFONT DG.MENU-EDGE))
  (PROG (TREE DG.WINDOW PATH OLD-CURSOR GRAPH)
    (COND
      ((NULL {DEV}<DIR>)
        (SETQ {DEV}<DIR> DG.DEFAULT-DIR))
      (SETQ OLD-CURSOR (CURSOR WAITINGCURSOR))
      (PRINTOUT PROMPTWINDOW T "DirGrapher : Computing directory structure ")
      (|if| (LISTP {DEV}<DIR>)
        |then| (SETQ TREE {DEV}<DIR>)
          (SETQ PATH (OR PATH? (LIST (CAR TREE))))
        |else| (SETQ PATH (DG.CREATE-PATH-FROM-FILE-NAME {DEV}<DIR>))
          (SETQ TREE (DG.CREATE-DIRECTORY-TREE (COPY PATH))))
      (SETQ GRAPH (DG.CREATE-GRAPH-FROM-TREE TREE))
      (PRINTOUT PROMPTWINDOW T "DirGrapher : Done.")
      (CURSOR OLD-CURSOR)
      (|if| WINDOW-REGION
        |then| (SETQ DG.WINDOW (CREATEW WINDOW-REGION {DEV}<DIR>))
        |else| (SETQ DG.WINDOW (CREATEW (DG.GET-INITIAL-REGION GRAPH)
          {DEV}<DIR>))
          (WINDOWPROP DG.WINDOW 'MINSIZE (CONS DG.MIN-WIDTH DG.MIN-HEIGHT)))
      (WINDOWPROP DG.WINDOW 'DG.PATH-TO-ROOT PATH)
      (DG.DISPLAY-DIRECTORY-TREE GRAPH DG.WINDOW)
      (WINDOWPROP DG.WINDOW 'DG.TREE TREE)
      (WINDOWADDPROP DG.WINDOW 'REPAINTFN 'DG.REDISPLAYFN)
      (WINDOWPROP DG.WINDOW 'ICONFN 'DG.CREATEICONW)
      (WINDOWPROP DG.WINDOW 'EXPANDFN ' (DG.SHADE-CURRENT-DIRECTORY REDISPLAYGRAPH))
      (WINDOWPROP DG.WINDOW 'DG.ICONTITLE (DG.CREATE-ICON-TITLE PATH))
      (WINDOWPROP DG.WINDOW 'DG.PROCESS NIL)
      (WINDOWPROP DG.WINDOW 'DG.FILE-SELECTION-ENDED-EVENT (CREATE.EVENT "DGEVENT"))
      (WINDOWPROP DG.WINDOW 'DG.LOCK (CREATE.MONITORLOCK "DG.LOCK"))
      (GETPROMPTWINDOW DG.WINDOW 3 DG.PROMPTWINDOWFONT)
      (ATTACHMENU (DG.CREATE-MENU DG.WINDOW)
        DG.WINDOW DG.MENU-EDGE 'JUSTIFY)
      (ATTACHMENU (DG.CREATE-QUIT-MENU DG.WINDOW)
        DG.WINDOW
        'BOTTOM
        'JUSTIFY)
```

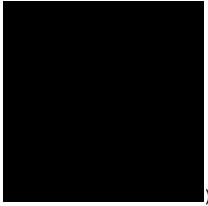
(RETURN DG.WINDOW)))

)

(RPAQQ DG.ICON



(RPAQQ DG.MASK



(RPAQQ DG.FILL-WINDOW-TEXTURE

)

(RPAQQ DG.WHITEBM

)

(DG.ADVISE-GENERATE-FILE)

```
(SETQ DG.BACKGROUND-DIRECTORIES (UNION DG.BACKGROUND-DIRECTORIES (UNION DIRECTORIES
  (CONS '{FLOPPY}
    (FOR D IN (VOLUMES)
      WHEN (LISPDIRECTORYP D)
        COLLECT (PACK* '{DSK}< D
                  '>))))))
```

(DG.ADD-ITEM-TO-BACKGROUND-MENU

'|DirGrapher|
'(DIRGRAPHER)

"Will initiate dirgrapher process on the current directory"

(CONS 'SUBITEMS (CONS '("DG Windows to top" (|for| W |in| (OPENWINDOWS)

|when| (OR (WINDOWPROP W 'DG.PATH-TO-ROOT)

(AND (WINDOWPROP W 'ICONFOR)

(WINDOWPROP (WINDOWPROP W 'ICONFOR)

'DG.PATH-TO-ROOT)))

|do| (TOTOPW W)))

(FOR D IN DG.BACKGROUND-DIRECTORIES COLLECT (LIST D (LIST 'DIRGRAPHER (KWOTE D))
(CONCAT "WILL APPLY DIRGRAPHER ON " D)
))))

;;; (declare): dontcopy (prop makefile-environment dirgrapher))

(PUTPROPS DIRGRAPHER COPYRIGHT ("Shaul Markovitch" 1985 1986 1990 1987 1988))

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