```
14-Jun-90 21:20:39 {DSK}<usr>local>lde>lispcore>internal>library>FILEBANGER.;2
 File created:
 Read Table:
              INTERLISP
   Package:
              INTERLISP
      Format:
                XCCS
;; Copyright (c) 1983, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQO FILEBANGERCOMS
       ((FNS DOFILEBANGER DOMAKEFILEBANGER DOZEROBANGER FILEBANGER FBCOPYBYTES FBMAKETESTFILE MAKEBANGERWINDOW
             MAKEFILEBANGER ZEROBANGER SUSPEND.FILEBANGER WATCHDISKPAGES)
        (FNS BINCOM)
        (FNS CHECKFORZEROS)
        (INITVARS (FBREPEATCOUNT 4)
                (FILEBANGERS))
        (PROP FILETYPE FILEBANGER)))
(DEFINEO
(DOFILEBANGER
  [LAMBDA (DESTINATION LENGTH NOBREAK)
                                                                     ; Edited 1-Oct-87 18:00 by Daniels
    (push filebangers (ADD.PROCESS '(FILEBANGER ', LENGTH ', DESTINATION T ', NOBREAK])
(DOMAKEFILEBANGER
                                                                     (* bvm%: "14-AUG-83 13:53")
  [LAMBDA (SOURCE)
    (push filebangers (add.process '(MAKEFILEBANGER (QUOTE %, SOURCE])
(DOZEROBANGER
  [LAMBDA (TESTFILE1 TESTFILE2 TMPFILENAME)
                                                                     (* bvm%: "14-AUG-83 13:54")
    (push filebangers (ADD.PROCESS '(ZEROBANGER (QUOTE %, TESTFILE1)
                                              (QUOTE %, TESTFILE2)
                                              (QUOTE %, TMPFILENAME])
(FILEBANGER
  [LAMBDA (TESTFILE DESTINATION MAKEWINDOW NOBREAK INPARMS OUTPARMS)
                                                                     ; Edited 1-Oct-87 18:31 by Daniels
    (DECLARE (SPECVARS ERRCNT LOOPCNT))
    (RESETLST
        (PROG ((ERRCNT 0)
                (LOOPCNT 0)
                (OPTION (AND (NOT NOBREAK)
                              'BREAK))
               MYFILE NEWFILE LASTFILE TMPFILENAME OUTPUTSTREAM)
               [COND
                  [(OR (NULL TESTFILE)
(FIXP TESTFILE))
                   (SETQ TESTFILE (SETQ MYFILE (FBMAKETESTFILE TESTFILE (PACKFILENAME 'EXTENSION 'SOURCE
                                                                                    ' BODY
                                                                                    (OR DESTINATION 'FILEBANGER]
                  (T (SETQ TESTFILE (CL:PROBE-FILE (OR TESTFILE (RETURN "No TESTFILE supplied"]
               [COND
                  [MAKEWINDOW (SETQ OUTPUTSTREAM (GETSTREAM (MAKEBANGERWINDOW TESTFILE "File Banger")
                                                           'OUTPUT]
                  (T (SETQ OUTPUTSTREAM (GETSTREAM T 'OUTPUT]
               (COND
                  ((NOT MYFILE)
                   [SETQ MYFILE (CL:WITH-OPEN-FILE (TESTFILE TESTFILE :DIRECTION :INPUT)
                                        (COPYFILE TESTFILE (PACKFILENAME 'EXTENSION 'FBTESTER 'VERSION NIL
                                                                    'BODY TESTFILE]
               (BINCOM MYFILE TESTFILE OPTION OUTPUTSTREAM)))
[SETQ TMPFILENAME (OR DESTINATION (PACKFILENAME 'EXTENSION 'FBTEMP 'VERSION NIL 'BODY
                                                          (OR MYFILE 'FILEBANGER]
              (PRIN1 (add LOOPCNT 1)
                      OUTPUTSTREAM)
               (RESETLST
                   [RESETSAVE (SETQ NEWFILE (OPENFILE TMPFILENAME 'OUTPUT NIL NIL OUTPARMS))
                          ' (PROGN (CLOSEF OLDVALUE]
                   (CL:WITH-OPEN-FILE (MYFILE MYFILE :DIRECTION :INPUT)
                          (COPYBYTES MYFILE NEWFILE)))
               (AND LASTFILE (DELFILE LASTFILE))
               [RPTQ FBREPEATCOUNT (PROGN (BLOCK)
                                            (PRIN1 '%. OUTPUTSTREAM)
                                            (COND
                                               ((NEQ (BINCOM MYFILE NEWFILE OPTION OUTPUTSTREAM)
                                                (add ERRCNT 1]
               (SETO LASTFILE NEWFILE)
               (BLOCK)
               (GO LP)))1)
```

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(FBCOPYBYTES
 [LAMBDA (INSTREAM ECHOSTREAM START)
                                                                    (* bvm%: "24-JUN-83 19:00")
    (SETFILEPTR INSTREAM START)
    (RPTQ 40 (\OUTCHAR ECHOSTREAM (\BIN INSTREAM])
(FBMAKETESTFILE
  [LAMBDA (LENGTH NAME)
                                                                    ; Edited 1-Oct-87 18:20 by Daniels
    (LET ((PATHNAME))
         [CL:WITH-OPEN-FILE (FILE (OR NAME "FILEBANGER.TMP")
                                    :DIRECTION :OUTPUT :IF-EXISTS :NEW-VERSION)
                 (SETO PATHNAME (CL:TRUENAME FILE))
                (for I from 1 to (OR LENGTH 1000) do (\OUTCHAR FILE (RAND 32 127]
         PATHNAME])
(MAKEBANGERWINDOW
                                                                    (* bvm%: "12-AUG-83 13:06")
  [LAMBDA (FILE TYPE)
    (PROG (W)
          [RESETSAVE (TTYDISPLAYSTREAM (SETQ W (CREATEW NIL (CONCAT TYPE " for " FILE]
          (DSPFONT '(GACHA 8)
                 W)
          [WINDOWPROP W 'CLOSEFN (FUNCTION (LAMBDA (W P)
                                               (AND [PROCESSP (SETQ P (WINDOWPROP W 'PROCESS]
(PROCESS.EVAL P '(ERROR!]
          (WINDOWPROP W 'PAGEFULLFN (FUNCTION NILL))
          (RETURN W])
(MAKEFILEBANGER)
  [LAMBDA (TESTFILE)
(DECLARE (SPECVARS ERRCNT LOOPCNT))
                                                                    (* bvm%: "14-AUG-83 13:56")
    (RESETLST
        (PROG ((LOOPCNT 0)
               NEWFILE LASTFILE)
                              (LOADFROM (OR TESTFILE (RETURN "No TESTFILE supplied"]
               (MAKEBANGERWINDOW TESTFILE "MAKEFILE Banger")
              (SETQ TESTFILE (NAMEFIELD TESTFILE T))
              (SETQ NEWFILE (MAKEFILE TESTFILE))
              (AND (CHECKFORZEROS NEWFILE)
                    (HELP "Zeros found"))
              [ COND
                 (LASTFILE (DELFILE LASTFILE)
                         (REMPROP LASTFILE 'PAGES]
              (SETO LASTFILE NEWFILE)
              (GO LP)))])
(ZEROBANGER
  [LAMBDA (TESTFILE1 TESTFILE2 TMPFILENAME N NOBREAK OUTPUTSTREAM)
                                                                    (* bvm%: "12-AUG-83 13:07")
    (DECLARE (SPECVARS ERRCNT LOOPCNT))
    (RESETLST
        (PROG ((ERRCNT 0)
                (LOOPENT 0)
                (OPTION (AND (NOT NOBREAK)
                             'BREAK))
               THISFILE NEWFILE LASTFILE)
              [SETQ THISFILE (CLOSEF (SETQ TESTFILE1 (OPENFILE (OR TESTFILE1 (RETURN "No TESTFILE supplied"))
                                                               'INPUT
              (RESETSAVE NIL (LIST 'CLOSEF? TESTFILE1))
              [CLOSEF (SETQ TESTFILE2 (OPENFILE (OR TESTFILE2 (RETURN "No TESTFILE supplied"))
                                               'INPUT]
              (RESETSAVE NIL (LIST 'CLOSEF? TESTFILE2))
              [CLOSEF (SETQ TMPFILENAME (OPENFILE (OR TMPFILENAME 'ZEROBANGER.TMP)
                                                 'OUTPUT]
              (RESETSAVE NIL (LIST 'CLOSEF? TMPFILENAME))
              (SETQ OUTPUTSTREAM (GETSTREAM (OR OUTPUTSTREAM (MAKEBANGERWINDOW THISFILE "Zero Banger"))
                                          OUTPUT))
              (COND
          LP
                 ((AND N (ILESSP (add N -1)
                                 0))
                   (RETURN ERRCNT)))
              (printout OUTPUTSTREAM (add LOOPCNT 1)
                      용,)
              (OPENFILE TMPFILENAME 'BOTH 'OLD)
(OPENFILE THISFILE 'INPUT)
              (COPYBYTES THISFILE TMPFILENAME 0 -1)
              (CLOSEF THISFILE)
              (SETFILEINFO TMPFILENAME 'LENGTH (GETFILEPTR TMPFILENAME))
                                                                    (* (AND LASTFILE (DELFILE LASTFILE)))
              (CLOSEF TMPFILENAME)
              (COND
                 ((NEQ (BINCOM THISFILE TMPFILENAME OPTION OUTPUTSTREAM)
                       T)
                   (add ERRCNT 1)))
                                                                    (* (SETQ LASTFILE NEWFILE))
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(SETQ THISFILE (COND
                                      ((EQ THISFILE TESTFILE1)
                                        TESTFILE2)
                                      (T TESTFILE1)))
                 (GO LP)))])
(SUSPEND.FILEBANGER
  [LAMBDA NIL
                                                                              (* bvm%: "10-AUG-83 17:39")
    (for PROC in FILEBANGERS when (AND (PROCESSP PROC)
                                              (NEQ PROC (THIS.PROCESS)))
        do (SUSPEND.PROCESS PROC))
    (CLOSEF (PROG1 PUPTRACEFILE
                   [SETQ PUPTRACEFILE (PUPTRACE PUPTRACEFLG '(832 416 190 336])])
(WATCHDISKPAGES
  [LAMBDA (THRESHOLD)
                                                                              (* bvm%: "10-AUG-83 17:11")
    (OR THRESHOLD (SETQ THRESHOLD 2000))
(while T bind (MARGIN _ THRESHOLD)
                   LASTFILE
        do (COND
               ((ILESSP (DISKFREEPAGES)
                         (IPLUS THRESHOLD MARGIN))
                 (COND
                 (LASTFILE (DELFILE LASTFILE)))
(SETQ LASTFILE (CLOSEF PUPTRACEFILE))
                 (SETQ PUPTRACEFILE (OPENFILE '{DSK}PUPTRACE.TMP 'OUTPUT 'NEW))
                 (SETQ MARGIN 0)))
            (BLOCK 60000])
(DEFINEQ
(BINCOM
  [LAMBDA (FILE1 FILE2 OPTION OUTPUTSTREAM)
                                                                              ; Edited 1-Oct-87 18:36 by Daniels
    (RESETLST
         [PROG ((STRM1 (OPENSTREAM FILE1 'INPUT 'OLD))
                  (STRM2 (OPENSTREAM FILE2 'INPUT 'OLD))
                  HERE B1 B2)
                 (RESETSAVE NIL (LIST 'CLOSEF STRM1))
(RESETSAVE NIL (LIST 'CLOSEF STRM2))
                 (SETQ OUTPUTSTREAM (GETSTREAM (OR OUTPUTSTREAM T)
                                                'OUTPUT))
                 (RETURN (COND
                              ((IEQP (GETEOFPTR STRM1)
                                       (GETEOFPTR STRM2))
                               (for I from 1 to (GETEOFPTR STRM1)
  do (IF (ZEROP (MOD I 5120))
     THEN (BLOCK))
                                       (COND
                                          ((NEQ (SETQ B1 (\BIN STRM1))
(SETQ B2 (\BIN STRM2)))
                                            (COND
                                               ((NEQ OPTION 'NOMSG)
                                                (printout OUTPUTSTREAM T (FULLNAME STRM1)
    " and "
                                                        " differ at byte " .P2 (SETQ HERE (SUB1 (GETFILEPTR STRM1)))
" (page " .P2 (fetch (BYTEPTR PAGE) of HERE)
", byte " .P2 (fetch (BYTEPTR OFFSET) of HERE)
"): ")
                                                         (FULLNAME STRM2)
                                                (\OUTCHAR OUTPUTSTREAM B1) (printout OUTPUTSTREAM "[" .P2 B1 "] vs. ")
                                                 (\OUTCHAR OUTPUTSTREAM B2)
                                                 (printout OUTPUTSTREAM "[" .P2 B2 "]" T (FULLNAME STRM1)
                                                           reads:" T)
                                                 (FBCOPYBYTES STRM1 OUTPUTSTREAM HERE)
                                                 (printout OUTPUTSTREAM T (FULLNAME STRM2)
                                                         " reads:" T)
                                                 (FBCOPYBYTES STRM2 OUTPUTSTREAM HERE)
                                                 (TERPRI T)))
                                            (COND
                                               ((EQ OPTION 'BREAK)
                                                (HELP STRM1 STRM2)))
                                            (RETURN I)))
                                   finally (RETURN T)))
                              (T (COND
                                     ((NEQ OPTION 'NOMSG)
                                       (printout OUTPUTSTREAM T (FULLNAME STRM1)
                                                 has length " .P2 (GETEOFPTR STRM1)
                                               ", but "
                                               (FULLNAME STRM2)
                                                 has length " .P2 (GETEOFPTR STRM2)
                                               T)))
                                  (COND
```

(RPAQ? FBREPEATCOUNT 4)
(RPAQ? FILEBANGERS)

(PUTPROPS FILEBANGER FILETYPE : COMPILE-FILE)

(PUTPROPS FILEBANGER COPYRIGHT ("Venue & Xerox Corporation" 1983 1987 1990))

{MEDLEY}<internal>envos>FILEBANGER.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:22:32 --

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