


```

                (QUOTE (PROGN (CLOSEF OLDVALUE]
[RESETSAVE (OPENFILE MYFILE (QUOTE INPUT)
                NIL NIL INPARMS)
                (QUOTE (PROGN (CLOSEF OLDVALUE]
                (COPYBYTES MYFILE NEWFILE))
(AND LASTFILE (DELFIL LASTFILE))
[COND
  ((NULL (MEMB MYFILE (DIRECTORY DESTINATION)))
   (add ERRCNT 1)
   (COND
    ((NEQ OPTION (QUOTE NOMSG))
     (printout OUTPUTSTREAM T MYFILE " not found in directory enumeration.")
     (TERPRI T)))
    (COND
     ((EQ OPTION (QUOTE BREAK))
      (HELP MYFILE]
[RPTQ FBREPEATCOUNT (PROGN (PRIN1 (QUOTE %.)
                                OUTPUTSTREAM)
                                (COND
                                 ((NEQ (BINCOM MYFILE NEWFILE OPTION OUTPUTSTREAM)
                                  T)
                                  (add ERRCNT 1]
                                (SETQ LASTFILE NEWFILE)
                                (GO LP))))))

```

(FBCOPYBYTES

```

[LAMBDA (INSTREAM EHOSTREAM START) (* bvm: "24-JUN-83 19:00")
  (SETFILEPTR INSTREAM START)
  (RPTQ 40 (\OUTCHAR EHOSTREAM (\BIN INSTREAM]))

```

(FBMAKETESTFILE

```

[LAMBDA (LENGTH NAME) (* bvm: "10-AUG-83 17:47")
  (RESETLST
   (PROG [(FILE (OPENFILE (OR NAME (QUOTE FILEBANGER.TMP))
                           (QUOTE OUTPUT)
                           (QUOTE NEW]
   (RESETSAVE NIL (LIST (QUOTE CLOSEF)
                        FILE))
   (for I from 1 to (OR LENGTH 1000) bind (STREAM _ (GETSTREAM FILE (QUOTE OUTPUT)))
     do (\OUTCHAR STREAM (RAND 32 127)))
   (RETURN FILE)))]))

```

(MAKEBANGERWINDOW

```

[LAMBDA (FILE TYPE) (* bvm: "12-AUG-83 13:06")
  (PROG (W)
   [RESETSAVE (TTYDISPLAYSTREAM (SETQ W (CREATEW NIL (CONCAT TYPE " for " FILE]
   (DSPFONT (QUOTE (GACHA 8))
             W)
   [WINDOWPROP W (QUOTE CLOSEFN)
    (FUNCTION (LAMBDA (W P)
              (AND [PROCESSP (SETQ P (WINDOWPROP W (QUOTE PROCESS]
                  (PROCESS.EVAL P (QUOTE (ERROR!])
   (WINDOWPROP W (QUOTE PAGEFULLFN)
    (FUNCTION NIL))
   (RETURN W])

```

(MAKEFILEBANGER

```

[LAMBDA (TESTFILE) (* bvm: "14-AUG-83 13:56")
  (DECLARE (SPECVARS ERRCNT LOOPCNT))
  (RESETLST
   (PROG ((LOOPCNT 0)
          NEWFILE LASTFILE)
   [SETQ TESTFILE (LOADFROM (OR TESTFILE (RETURN "No TESTFILE supplied"]
   (MAKEBANGERWINDOW TESTFILE "MAKEFILE Banger")
   (SETQ TESTFILE (NAMEFIELD TESTFILE T))
   LP (SETQ NEWFILE (MAKEFILE TESTFILE))
      (AND (CHECKFORZEROS NEWFILE)
           (HELP "Zeros found"))
   [COND
    (LASTFILE (DELFIL LASTFILE)
              (REMPROP LASTFILE (QUOTE PAGES]
   (SETQ 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)
          (LOOPCNT 0)
          (OPTION (AND (NOT NOBREAK)

```

```

                (QUOTE BREAK)))
    THISFILE NEWFILE LASTFILE)
  [SETQ THISFILE (CLOSEF (SETQ TESTFILE1 (OPENFILE (OR TESTFILE1 (RETURN "No TESTFILE supplied"))
                                                    (QUOTE INPUT)
    (RESETSAVE NIL (LIST (QUOTE CLOSEF?)
                        TESTFILE1))
  [CLOSEF (SETQ TESTFILE2 (OPENFILE (OR TESTFILE2 (RETURN "No TESTFILE supplied"))
                                    (QUOTE INPUT)
  (RESETSAVE NIL (LIST (QUOTE CLOSEF?)
                      TESTFILE2))
  [CLOSEF (SETQ TMPFILENAME (OPENFILE (OR TMPFILENAME (QUOTE ZEROBANGER.TMP))
                                      (QUOTE OUTPUT)
  (RESETSAVE NIL (LIST (QUOTE CLOSEF?)
                      TMPFILENAME))
  (SETQ OUTPUTSTREAM (GETSTREAM (OR OUTPUTSTREAM (MAKEBANGERWINDOW THISFILE "Zero Banger"))
                              (QUOTE OUTPUT)))
LP (COND
    ((AND N (ILESSP (add N -1)
                    0))
     (RETURN ERRCNT)))
  (printout OUTPUTSTREAM (add LOOPCNT 1)
    ,)
  (OPENFILE TMPFILENAME (QUOTE BOTH)
    (QUOTE OLD))
  (OPENFILE THISFILE (QUOTE INPUT))
  (COPYBYTES THISFILE TMPFILENAME 0 -1)
  (CLOSEF THISFILE)
  (SETFILEINFO TMPFILENAME (QUOTE LENGTH)
    (GETFILEPTR TMPFILENAME))
  (CLOSEF TMPFILENAME)
  (* (AND LASTFILE (DELFILE LASTFILE)))
  (COND
    ((NEQ (BINCOM THISFILE TMPFILENAME OPTION OUTPUTSTREAM)
          T)
     (add ERRCNT 1)))
  (* (SETQ LASTFILE NEWFILE))
  (SETQ THISFILE (COND
    ((EQ THISFILE TESTFILE1)
     TESTFILE2)
    (T TESTFILE1)))
  (GO LP))))

```

(SUSPEND.FILEBANGER

```

[LAMBDA NIL
  (for PROC in FILEBANGERS when (AND (PROCESSP PROC)
                                     (NEQ PROC (THIS.PROCESS)))
    do (SUSPEND.PROCESS PROC))
  (CLOSEF (PROG1 PUPTRACEFILE
    [SETQ PUPTRACEFILE (PUPTRACE PUPTRACEFLG (QUOTE (832 416 190 336)))]))
  (* bvm: "10-AUG-83 17:39")

```

(WATCHDISKPAGES

```

[LAMBDA (THRESHOLD)
  (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 (QUOTE {DSK}PUPTRACE.TMP)
                                  (QUOTE OUTPUT)
                                  (QUOTE NEW)))
     (SETQ MARGIN 0)))
    (BLOCK 60000])
  (* bvm: "10-AUG-83 17:11")

```

(DEFINEQ

(BINCOM

```

[LAMBDA (FILE1 FILE2 OPTION OUTPUTSTREAM)
  (RESETLST
    [PROG ((STRM1 (OPENSTREAM FILE1 (QUOTE INPUT)
                              (QUOTE OLD)))
          (STRM2 (OPENSTREAM FILE2 (QUOTE INPUT)
                              (QUOTE OLD)))
          HERE B1 B2)
    (RESETSAVE NIL (LIST (QUOTE CLOSEF)
                        STRM1))
    (RESETSAVE NIL (LIST (QUOTE CLOSEF)
                        STRM2))
    (SETQ OUTPUTSTREAM (GETSTREAM (OR OUTPUTSTREAM T)
                              (QUOTE OUTPUT)))
    (RETURN (COND
      ((IEQP (GETEOFPTR STRM1)

```

```

        (GETEOFPTR STRM2))
    (for I from 1 to (GETEOFPTR STRM1)
      do (COND
        ((NEQ (SETQ B1 (\BIN STRM1))
          (SETQ B2 (\BIN STRM2)))
          (COND
            ((NEQ OPTION (QUOTE NOMSG))
              (printout OUTPUTSTREAM T (FULLNAME STRM1)
                " and "
                (FULLNAME STRM2)
                " differ at byte " .P2 (SETQ HERE (SUB1 (GETFILEPTR STRM1)))
                " (page " .P2 (fetch (BYTEPTR PAGE) of HERE)
                ", byte " .P2 (fetch (BYTEPTR OFFSET) of HERE)
                "): ")
              (\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 (QUOTE BREAK))
                (HELP STRM1 STRM2)))
            (RETURN I)))
          finally (RETURN T)))
    (T (COND
      ((NEQ OPTION (QUOTE NOMSG))
        (printout OUTPUTSTREAM T (FULLNAME STRM1)
          " has length " .P2 (GETEOFPTR STRM1)
          ", but "
          (FULLNAME STRM2)
          " has length " .P2 (GETEOFPTR STRM2)
          T)))
      (COND
        ((EQ OPTION (QUOTE BREAK))
          (HELP STRM1 STRM2)))
      (LIST (GETEOFPTR STRM1)
        (GETEOFPTR STRM2]))))
  )

```

(DEFINEQ

(CHECKFORZEROS

(* bvm: "9-AUG-83 16:14")

```

  [LAMBDA (FILE MINZEROS)
    (RESETLST
      (PROG ((STREAM (OPENSTREAM FILE (QUOTE INPUT)))
        (#FAILURES 0)
        N)
        (RESETSAVE NIL (LIST (QUOTE CLOSEF)
          STREAM))
        (OR MINZEROS (SETQ MINZEROS 20))
        (replace ENDOFSTREAMOP of STREAM with (FUNCTION NIL))
        (printout T (FULLNAME STREAM)
          ": " T)
        (do (SELECTQ (BIN STREAM)
          (NIL (RETURN))
          (0 (SETQ N 1)
            (while (ZEROP (BIN STREAM)) do (add N 1))
            (COND
              ((IGREATERP N MINZEROS)
                (printout T .P2 N " zeros starting at byte " .P2 (SUB1 (IDIFFERENCE (GETFILEPTR
                  STREAM)
                    N))
                    T)
                (add #FAILURES 1))))
          NIL))
        (RETURN (AND (NOT (ZEROP #FAILURES))
          #FAILURES))))))
  )

```

(RPAQ? FBREPEATCOUNT 4)

(RPAQ? FILEBANGERS)

(PUTPROPS FILEBANGER COPYRIGHT ("Xerox Corporation" 1983 1985))

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