

File created: 19-Mar-2024 21:34:32 {WMEDLEY}<library>TEDIT>TEDIT-STRESS.;70

edit by: rmk

changes to: (FNS STRESSHC STRESSRAND STRESSPUT STRESSOPEN STRESSREAD STRESSPEEK)  
(VARS TEDIT-STRESSCOMS)

previous date: 17-Mar-2024 19:46:53 {WMEDLEY}<library>TEDIT>TEDIT-STRESS.;54

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

```
(RPAQQ TEDIT-STRESSCOMS ( ; Preload typical image objects
(FNS STRESSHC STRESSRAND STRESSPUT STRESSOPEN STRESSREAD STRESSGREP STRESSPEEK)
(FNS EQTEXTSTREAM SYSOUTRING COPYTOCORE)))
```

:: Preload typical image objects

(DEFINEQ

(STRESSHC

```
[LAMBDA (FILES NSYSOUTS REPS ERROR SEPARATEOUT PDF SYSOUTNAME SINGLESTEP)
; Edited 19-Mar-2024 21:33 by rmk
; Edited 14-Mar-2024 15:15 by rmk
; Edited 13-Mar-2024 00:23 by rmk
```

(DECLARE (SPECVARS SINGLESTEP))

:: If all arguments are defaulted, runs through all TEDIT files in the current directory until it fails, doing SAVEVM before each file. The HC files are  
:: made as {CORE}FOO.PS.

```
(CL:UNLESS FILES
  (SETQ FILES (FILDIR '*.TEDIT;)))
(CL:UNLESS REPS (SETQ REPS MAX.SMALLP))
(CL:UNLESS NSYSOUTS
  (SETQ NSYSOUTS 'SAVEVM))
```

```
[SETQ SYSOUTNAME (PACKFILENAME 'VERSION NIL 'BODY (OR SYSOUTNAME (PACKFILENAME 'DIRECTORY MEDLEYPATH
'NAME "STRESSHC" 'EXTENSION
'SYSOUT])
```

```
(PRINTOUT T REPS " reps of " (LENGTH FILES)
" files saving "
(if (EQ NSYSOUTS 0)
  then "no sysouts"
  elseif (EQ NSYSOUTS 'SAVEVM)
  then " the virtual memory"
  else (PRINTOUT NIL NSYSOUTS " sysouts on " 3)
  SYSOUTNAME)
T)
```

```
(PRINTOUT T "First file is " (CAR FILES)
T T)
(BKSYSBUF " ")
(for R SYSOUTS (ITYPE _ (CL:IF PDF
'pdf
'ps))
```

```
(N _ 0) from 1 to REPS
do (PRINTOUT T "Rep " R T)
  (if (EQ NSYSOUTS 'SAVEVM)
    then (SAVEVM)
    else (SETQ SYSOUTS (SYSOUTRING NSYSOUTS SYSOUTNAME SYSOUTS)))
[for F TSTRM HCFILE inside FILES
```

```
do (PROMPTPRINT F)
  (SETQ HCFILE (CL:IF SEPARATEOUT
    (OUTFILEP (PACKFILENAME 'EXTENSION ITYPE 'VERSION 1 'BODY F))
    (CL:IF PDF
      "{CORE}FOO.PDF;1"
      "{CORE}FOO.PS;1")))
  (if [if ERROR
    then (SETQ TSTRM (OPENTEXTSTREAM F))
    (TEDIT.FORMAT.HARDCOPY TSTRM HCFILE T NIL NIL NIL (CL:IF PDF
      'PDF
      'POSTSCRIPT))]
    else (NLSETQ (SETQ TSTRM (OPENTEXTSTREAM F))
      (TEDIT.FORMAT.HARDCOPY TSTRM HCFILE T NIL NIL NIL (CL:IF PDF
        'PDF
        'POSTSCRIPT))]
```

```
  then (add N 1)
  else (PRINTOUT T " Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY NIL 'BODY F)
    T))
(CLOSEF? TSTRM)
(CL:WHEN SINGLESTEP
  (HELP (CONCAT "Just hardcopied " F " to " HCFILE))))]
(PRINTOUT T " Hardcopied " N " files without failure" T)
finally (RETURN (LIST R N))
```

(STRESSRAND

[LAMBDA (FILES REPS ERROR PROBESPERFILE)

; Edited 19-Mar-2024 21:33 by rmk  
; Edited 12-Mar-2024 09:47 by rmk

:: Opens, fetches random characters

```
(CL:UNLESS FILES
  (SETQ FILES (FILDIR '*.TEDIT;)))
(SETQ REPS (SELECTQ REPS
  (T MAX.SMALLP)
  (NIL 1)
  REPS))
(CL:UNLESS PROBESPERFILE (SETQ PROBESPERFILE 100))
(PRINTOUT T REPS " reps of " (LENGTH FILES)
  " files with " PROBESPERFILE " probes per file" T)
(for R (N _ 0) from 1 to REPS
  do (PRINTOUT T R " ")
    (for F TSTRM inside FILES
      do (if (if ERROR
        then (SETQ TSTRM (OPENTEXTSTREAM F))
              (for I (LEN _ (TEDIT.NCHARS TSTRM)) from 1 to PROBESPERFILE
                do (TEDIT.NTHCHARCODE TSTRM (RAND 1 LEN)))
            T
        else (CAR (NLSETQ (SETQ TSTRM (OPENTEXTSTREAM F))
              (for I (LEN _ (TEDIT.NCHARS TSTRM)) from 1 to PROBESPERFILE
                do (TEDIT.NTHCHARCODE TSTRM (RAND 1 LEN)))
            T)))
        then (CLOSEF TSTRM)
            (add N 1)
        else (PRINTOUT T " Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY NIL 'BODY F)
            T))
      repeatwhile (PROGN (CLOSEF? TSTRM)
        T))
    finally (RETURN (LIST R N])
```

(STRESSPUT

[LAMBDA (FILES REPS NOERROR CHECKEQUIV STOP)

; Edited 19-Mar-2024 21:34 by rmk  
; Edited 12-Mar-2024 09:48 by rmk

:: Opens, puts, reopens and tests for equivalence

```
(CL:UNLESS FILES
  (SETQ FILES (FILDIR '*.TEDIT;)))
(SETQ REPS (SELECTQ REPS
  (T MAX.SMALLP)
  (NIL 1)
  REPS))
(PRINTOUT T REPS " reps of " (LENGTH FILES)
  " files" T)
(for R (N _ 0) from 1 to REPS
  do (PRINTOUT T R " ")
    (for F TSTRM TSP inside FILES
      do (if (if NOERROR
        then (NLSETQ (SETQ TSTRM (OPENTEXTSTREAM F))
              (TEDIT.PUT TSTRM "{CORE}FOO.TEDIT;1")
              (SETQ TSP (OPENTEXTSTREAM "{CORE}FOO.TEDIT;1"))
              (CL:WHEN (AND CHECKEQUIV (NOT (EQTEXTSTREAM TSTRM TSP STOP)))
                (HELP "Get of put not equivalent" F))
              (CLOSEF TSP))
        else (SETQ TSTRM (OPENTEXTSTREAM F))
              (TEDIT.PUT TSTRM "{CORE}FOO.TEDIT;1")
              (SETQ TSP (OPENTEXTSTREAM "{CORE}FOO.TEDIT;1"))
              (CL:WHEN (AND CHECKEQUIV (NOT (EQTEXTSTREAM TSTRM TSP STOP)))
                (HELP "Get of put not equivalent" F))
              (CLOSEF TSP))
        then (CLOSEF TSTRM)
            (add N 1)
        else (PRINTOUT T T "Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY NIL 'BODY F)
            T)))
    finally (RETURN (LIST R N])
```

(STRESSOPEN

[LAMBDA (FILES REPS NOERROR)

; Edited 19-Mar-2024 21:34 by rmk  
; Edited 12-Mar-2024 09:48 by rmk  
; Edited 11-Mar-2024 09:15 by rmk

```
(CL:UNLESS FILES
  (SETQ FILES (FILDIR '*.TEDIT;)))
(SETQ REPS (SELECTQ REPS
  (T MAX.SMALLP)
  (NIL 1)
  REPS))
(PRINTOUT T REPS " reps of " (LENGTH FILES)
  " files" T)
(for R (N _ 0) from 1 to REPS do (PRINTOUT T R " ")
  (for F TSTRM inside FILES
    do (if (if NOERROR
      then (NLSETQ (SETQ TSTRM (OPENTEXTSTREAM F)))
      else (SETQ TSTRM (OPENTEXTSTREAM F)))
```

```

      then (CLOSEF TSTRM)
            (add N 1)
      else (PRINTOUT T T "Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY
                                     NIL 'BODY F)
           T)))

```

```

finally (RETURN (LIST R N])

```

(STRESSREAD

```

[LAMBDA (FILES REPS NOERROR)

```

```

; Edited 19-Mar-2024 21:34 by rmk
; Edited 15-Mar-2024 15:19 by rmk
; Edited 12-Mar-2024 09:48 by rmk
; Edited 11-Mar-2024 09:13 by rmk

```

```

(CL:UNLESS FILES
 (SETQ FILES (FILDIR '*.TEDIT;)))
(SETQ REPS (SELECTQ REPS
 (T MAX.SMALLP)
 (NIL 1)
 REPS))
(PRINTOUT T REPS " reps of " (LENGTH FILES)
 " files" T)
(for R (N _ 0) from 1 to REPS
 do (PRINTOUT T R " "
      (for F TSTRM inside FILES do (if (if NOERROR
                                         then (NLSETQ (SETQ TSTRM (OPENTEXTSTREAM F))
                                                         (for I from 1 while (TEDIT.NTHCHARCODE TSTRM I)))
                                         else (SETQ TSTRM (OPENTEXTSTREAM F))
                                                         (for I from 1 while (TEDIT.NTHCHARCODE TSTRM I))
                                         T)
                                         then (CLOSEF TSTRM)
                                                         (add N 1)
                                         else (PRINTOUT T T "Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY NIL
                                                                                       'BODY F)
                                                         T)))
      finally (RETURN (LIST (SUB1 R)
                            N])

```

(STRESSGREP

```

[LAMBDA (FILES NOERROR TARGET)

```

```

; Edited 17-Mar-2024 19:46 by rmk

```

```

;; GREP does forward bins and peekbins. If it hits on something, it also runs the backfileptr function. FOO appears in quite a few lispusers/ Tedit
;; files.

```

```

(CL:UNLESS FILES
 (SETQ FILES (FILDIR '*.TEDIT;)))
(CL:UNLESS TARGET (SETQ TARGET "FOO"))
(FILESLOAD GREP)
(for F inside FILES unless (if NOERROR
                              then (NLSETQ (GREP TARGET F))
                              else (GREP TARGET F)
                              T)
 do (PRINTOUT T T "Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY NIL 'BODY F)
 T])

```

(STRESSPEEK

```

[LAMBDA (FILES ERROR)

```

```

; Edited 19-Mar-2024 21:33 by rmk

```

```

(CL:UNLESS FILES
 (SETQ FILES (FILDIR '*.TEDIT;)))
(for F TSTRM inside FILES eachtime (SETQ TSTRM (OPENTEXTSTREAM F))
 unless [if ERROR
         then (bind P while (SETQ P (PEEKCCODE TSTRM T)) always (EQ P (BIN TSTRM)))
         else (NLSETQ (bind P while (SETQ P (PEEKCCODE TSTRM T)) always (EQ P (BIN TSTRM)))
 do (PRINTOUT T "Error for " (PACKFILENAME 'HOST NIL 'DIRECTORY NIL 'BODY F)
 T)
 repeatwhile (PROGN (CLOSEF? TSTRM)
 T])

```

)

(DEFINEQ

(EQTEXTSTREAM

```

[LAMBDA (TS1 TS2 STOP)

```

```

; Edited 11-Mar-2024 16:53 by rmk

```

```

(AND (IEQP (TEDIT.NCHARS TS1)
 (TEDIT.NCHARS TS2))
 (OR (for I C1 C2 from 1 to (TEDIT.NCHARS TS1) eachtime (SETQ C1 (TEDIT.NTHCHARCODE TS1 I))
 (SETQ C2 (TEDIT.NTHCHARCODE TS2 I))
      unless (OR (EQ C1 C2)
 (AND (EQ C1 10)
 (EQ C2 13))
 (AND (EQ C1 13)
 (EQ C2 10))
 (AND (IMAGEOBJP C1)
 (IMAGEOBJP C2)
 (EQUALALL C1 C2)))
 do (CL:WHEN STOP

```

```

      (HELP "Different characters: " (LIST I C1 C2)))
    (RETURN NIL)
  finally (RETURN T)}

```

**(SYSOUTRING**

```

[LAMBDA (NSYSOUTS SYSOUTNAME SYSOUTS) ; Edited 12-Mar-2024 17:52 by rmk
  ;; SYSOUTS is the list of names of sysouts that currently exist.
  (DECLARE (USEDFREE SINGLESTEP))
  (CL:WHEN (IGREATERP NSYSOUTS 0) ; Keep NSYSOUT sysouts with increasing versions
    (CL:WHEN (IGEQL (LENGTH SYSOUTS)
      NSYSOUTS)
      (DELFILE (pop SYSOUTS))) ; Drop the first (oldest), new one goes at the end
    (SETQ SYSOUTNAME (SYSOUT SYSOUTNAME))
    (CL:WHEN (LISTP SYSOUTNAME) ; Restarting
      (SETQ SINGLESTEP T))
    (NCONC1 SYSOUTS SYSOUTNAME)))

```

**(COPYTOCORE**

```

[LAMBDA (FILES NORECLAIM) ; Edited 12-Mar-2024 22:45 by rmk
  ;; Copy FILES to {CORE}, defaulting to TEDIT files in connected directory
  (CL:UNLESS (LISTP FILES)
    (SETQ FILES (FIDIR (OR FILES "*.TEDIT;"))))
  (PRINTOUT T "Copying " (LENGTH FILES)
    " files to {CORE} "
    (CL:IF NORECLAIM
      "without "
      "with ")
    "reclaiming" T)
  (for F in FILES collect (COPYFILE F (PACKFILENAME 'HOST 'CORE 'DIRECTORY NIL 'BODY F))
    finally (CL:UNLESS NORECLAIM (RECLAIM]))

```

)

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