```
4-Apr-88 11:51:42 {ERINYES}<LISPUSERS>MEDLEY>TRAJECTORY-FOLLOWER.;1
 File created:
  changes to:
               (FNS TRAJECTORY.FOLLOW TRAJECTORY.FOLLOWER.POINT TRAJECTORY.FOLLOWER.PUT TRAJECTORY.FOLLOWER.SETUP
                    TRAJECTORY.FOLLOWER.TEST TRAJECTORY.FOLLOWER.WRAPUP)
               (VARS TRAJECTORY-FOLLOWERCOMS)
               4-Apr-88 11:43:37 {CORE}TRAJECTORY-FOLLOWER.;2
previous date:
 Read Table:
               INTERLISP
   Package:
               INTERLISP
      Format:
                XCCS
"Copyright (c) 1986, 1988 by Xerox Corporation. All rights reserved.
(RPAQQ TRAJECTORY-FOLLOWERCOMS
       ((FNS TRAJECTORY.FOLLOW TRAJECTORY.FOLLOWER.POINT TRAJECTORY.FOLLOWER.PUT TRAJECTORY.FOLLOWER.SETUP TRAJECTORY.FOLLOWER.TEST TRAJECTORY.FOLLOWER.WRAPUP)
         (VARS (TRAJECTORY.FOLLOWER.POINTS))
        (GLOBALVARS TRAJECTORY.FOLLOWER.COUNT TRAJECTORY.FOLLOWER.LAST.TIME TRAJECTORY.FOLLOWER.POINTER
                TRAJECTORY.FOLLOWER.POINTS TRAJECTORY.FOLLOWER.DELAY TRAJECTORY.FOLLOWER.DSP TRAJECTORY.FOLLOWER.BITMAP TRAJECTORY.FOLLOWER.HALF.WIDTH TRAJECTORY.FOLLOWER.HALF.HEIGHT
                TRAJECTORY.FOLLOWER.WIDTH TRAJECTORY.FOLLOWER.HEIGHT)
        (BITMAPS TRAJECTORY.FOLLOWER.DEFAULT.BITMAP TRAJECTORY.FOLLOWER.BALL TRAJECTORY.FOLLOWER.HORIZONTAL
                TRAJECTORY.FOLLOWER.VERTICAL)
        (FILES
               (SYSLOAD FROM VALUEOF LISPUSERSDIRECTORIES)
                READNUMBER)))
(DEFINEO
(TRAJECTORY.FOLLOW
  [LAMBDA (KNOTS CLOSED N DELAY BITMAP WINDOW)
                                                                      ; Edited 4-Apr-88 11:51 by Briggs
                                                                     ; Edited 22-Apr-83 17:56 by DAHJr
           (TRAJECTORY.FOLLOWER.SETUP (OR WINDOW (SCREENBITMAP))
                  N DELAY (OR BITMAP TRAJECTORY.FOLLOWER.BALL))
           (DRAWCURVE KNOTS CLOSED (FUNCTION TRAJECTORY.FOLLOWER.POINT)
                   (OR WINDOW PROMPTWINDOW))
           (TRAJECTORY.FOLLOWER.WRAPUP])
(TRAJECTORY.FOLLOWER.POINT
  [LAMBDA (X Y WINDOW)
                                                                      Edited 4-Apr-88 11:52 by Briggs
                                                                      ; Edited 19-APR-83 21:06 by DAHJr
    (if (IGREATERP (SETQ TRAJECTORY.FOLLOWER.POINTER (IPLUS TRAJECTORY.FOLLOWER.POINTER 2))

TRAJECTORY.FOLLOWER.COUNT)

then (SETQ TRAJECTORY.FOLLOWER.POINTER 1))
    (TRAJECTORY.FOLLOWER.PUT TRAJECTORY.FOLLOWER.POINTER)
    (if TRAJECTORY.FOLLOWER.DELAY
        then (DISMISS (IDIFFERENCE TRAJECTORY.FOLLOWER.DELAY (CLOCKDIFFERENCE TRAJECTORY.FOLLOWER.LAST.TIME)))
             (SETQ TRAJECTORY.FOLLOWER.LAST.TIME (CLOCK 0)))
    (if X
        then (SETA TRAJECTORY.FOLLOWER.POINTS TRAJECTORY.FOLLOWER.POINTER (FIXR X))
              (SETA TRAJECTORY.FOLLOWER.POINTS (ADD1 TRAJECTORY.FOLLOWER.POINTER)
                    (FTXR
              (TRAJECTORY.FOLLOWER.PUT TRAJECTORY.FOLLOWER.POINTER)
      else (SETA TRAJECTORY.FOLLOWER.POINTS TRAJECTORY.FOLLOWER.POINTER MAX.FIXP])
(TRAJECTORY.FOLLOWER.PUT
                                                                     ; Edited 4-Apr-88 11:53 by Briggs
  [LAMBDA (POINTER)
                                                                      ; Edited 19-APR-83 20:57 by DAHJr
    (PROG (X Y)
           (if (NOT (IEQP (SETQ X (ELT TRAJECTORY.FOLLOWER.POINTS POINTER))
                         MAX.FIXP))
                   (SETQ Y (ELT TRAJECTORY.FOLLOWER.POINTS (ADD1 POINTER)))
                    (BITBLT TRAJECTORY.FOLLOWER.BITMAP 0 0 TRAJECTORY.FOLLOWER.DSP (IDIFFERENCE X
                                                                                         TRAJECTORY.FOLLOWER.HALF.WIDTH
                            (IDIFFERENCE Y TRAJECTORY.FOLLOWER.HALF.HEIGHT)
                           TRAJECTORY.FOLLOWER.WIDTH TRAJECTORY.FOLLOWER.HEIGHT 'INPUT 'INVERT])
(TRAJECTORY.FOLLOWER.SETUP
  [LAMBDA (DSP N DELAY BITMAP)
                                                                      ; Edited 4-Apr-88 11:54 by Briggs
                                                                      Edited 19-APR-83 21:05 by DAHJr
    (PROG ((REAL.N (OR N 100))
            (REAL.BITMAP (OR BITMAP TRAJECTORY.FOLLOWER.DEFAULT.BITMAP)))
           (if (AND TRAJECTORY.FOLLOWER.POINTS (EQ (ITIMES REAL.N 2)
                                                     (ARRAYSIZE TRAJECTORY.FOLLOWER.POINTS)))
            (SETQ TRAJECTORY.FOLLOWER.POINTER 1)
```

```
(SETQ TRAJECTORY.FOLLOWER.COUNT REAL.N)
           (SETQ TRAJECTORY.FOLLOWER.DSP DSP)
           (SETQ TRAJECTORY.FOLLOWER.DELAY DELAY)
           (if DELAY
              then (SETQ TRAJECTORY.FOLLOWER.LAST.TIME (CLOCK 0)))
           (SETQ TRAJECTORY.FOLLOWER.BITMAP REAL.BITMAP)
          (SETQ TRAJECTORY.FOLLOWER.WIDTH (fetch (BITMAP BITMAPWIDTH) of REAL.BITMAP))
           (SETQ TRAJECTORY.FOLLOWER.HEIGHT (fetch (BITMAP BITMAPHEIGHT) of REAL.BITMAP))
           (SETQ TRAJECTORY.FOLLOWER.HALF.WIDTH (IQUOTIENT TRAJECTORY.FOLLOWER.WIDTH 2))
           (SETQ TRAJECTORY.FOLLOWER.HALF.HEIGHT (IQUOTIENT TRAJECTORY.FOLLOWER.HEIGHT 2])
(TRAJECTORY.FOLLOWER.TEST
                                                                      Edited 4-Apr-88 11:42 by Briggs
  [LAMBDA NII.
                                                                     ; Edited 22-APR-83 16:17 by DAHJr
    (PROG (KNOTS N DELAY CLOSED BITMAP)
           (printout PROMPTWINDOW "Indicate knots on a trajectory; hold down left shift key on last point")
          [SETO KNOTS (CONS (GETPOSITION)
                              (collect (GETPOSITION) repeatuntil (KEYDOWNP 'LSHIFT]
          (SETQ N (RNUMBER "Indicate the number of points in the follower"))
(SETQ DELAY (MAX 0 (RNUMBER "Indicate the delay per point (milliseconds)")))
           (if (ZEROP DELAY)
              then (SETQ DELAY NIL))
          [SETQ CLOSED (MENU (create MENU
                                      ITEMS _ '(OPEN CLOSED]
          [SETO BITMAP (MENU (create MENU
                                            _ '(("A single point" NIL)
                                      ITEMS
                                                 ("A horizontal line" TRAJECTORY.FOLLOWER.HORIZONTAL)
("A vertical line" TRAJECTORY.FOLLOWER.VERTICAL)
                                                 ("A ball" TRAJECTORY.FOLLOWER.BALL]
           (TRAJECTORY.FOLLOWER.SETUP (SCREENBITMAP)
          N DELAY BITMAP)
(if (EQ CLOSED 'CLOSED)
              then (until (KEYDOWNP 'LSHIFT) do (DRAWCURVE KNOTS T (FUNCTION TRAJECTORY.FOLLOWER.POINT)
                                                        NIL PROMPTWINDOW))
            else (DRAWCURVE KNOTS NIL (FUNCTION TRAJECTORY.FOLLOWER.POINT)
                            PROMPTWINDOW
           (TRAJECTORY.FOLLOWER.WRAPUP))
(TRAJECTORY.FOLLOWER.WRAPUP
                                                                     ; Edited 4-Apr-88 11:42 by Briggs
  [LAMBDA NIL
                                                                      Edited 19-APR-83 17:29 by DAHJr
    (for I to TRAJECTORY.FOLLOWER.COUNT do (TRAJECTORY.FOLLOWER.POINT])
(RPAQQ TRAJECTORY.FOLLOWER.POINTS NIL)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS TRAJECTORY.FOLLOWER.COUNT TRAJECTORY.FOLLOWER.LAST.TIME TRAJECTORY.FOLLOWER.POINTER
       TRAJECTORY.FOLLOWER.POINTS TRAJECTORY.FOLLOWER.DELAY TRAJECTORY.FOLLOWER.DSP TRAJECTORY.FOLLOWER.BITMAP
       TRAJECTORY.FOLLOWER.HALF.WIDTH TRAJECTORY.FOLLOWER.HALF.HEIGHT TRAJECTORY.FOLLOWER.WIDTH
       TRAJECTORY, FOLLOWER, HEIGHT)
(RPAQQ TRAJECTORY.FOLLOWER.DEFAULT.BITMAP .)
(RPAQQ TRAJECTORY.FOLLOWER.BALL
(RPAQQ TRAJECTORY.FOLLOWER.HORIZONTAL _
(RPAQQ TRAJECTORY.FOLLOWER.VERTICAL
(FILESLOAD (SYSLOAD FROM VALUEOF LISPUSERSDIRECTORIES)
       READNUMBER)
(PUTPROPS TRAJECTORY-FOLLOWER COPYRIGHT ("Xerox Corporation" 1986 1988))
```

{MEDLEY}lispusers>TRAJECTORY-FOLLOWER.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:03 --

	FUNCTIO	ON INDEX	
TRAJECTORY.FOLLOW		ER.PUT1 ER.SETUP1	TRAJECTORY.FOLLOWER.TEST
	VARIABL	E INDEX	
TRAJECTORY.FOLLOWER.BALL		TRAJECTORY.FOLLOWER.POINTS	