

File created: 9-May-88 23:30:31 {ERINYES}<LISPUSERS>MEDLEY>TEK4010.;1

previous date: 8-May-85 12:20:13 {ERINYES}<LISPUSERS>LYRIC>TEK4010.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

::  
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(RPAQQ **TEK4010COMS** ((FNS GLOMHI&LO TEK.DRAWTO TEK.MOVETO TEK4010.INTERP)  
(MACROS ->NEXTSTATE \BIN7BITS)  
(VARS TEKTPSPERPOINT)))

(DEFINEQ

(**GLOMHI&LO**

[LAMBDA (HIBYTE LOBYTE)  
(IPLUS LOBYTE (LLSH HIBYTE 5])

(\* hdj "10-Sep-84 14:32")

(**TEK.DRAWTO**

[LAMBDA (X Y WIDTH OPERATION STREAM)  
(DRAWTO (IQUOTIENT X TEKTPSPERPOINT)  
(IQUOTIENT Y TEKTPSPERPOINT)  
WIDTH OPERATION STREAM])

(\* AJB "18-Mar-85 16:16")

(**TEK.MOVETO**

[LAMBDA (X Y STREAM)  
(MOVETO (IQUOTIENT X TEKTPSPERPOINT)  
(IQUOTIENT Y TEKTPSPERPOINT)  
STREAM])

(\* AJB "18-Mar-85 16:16")

(**TEK4010.INTERP**

[LAMBDA (INSTREAM OUTSTREAM)  
(PROG (CURRSTATE PREVSTATE INBYTE HI2BITS LO5BITS HIX LOX HIY LOY DRAWP)

(\* AJB "27-Mar-85 12:55")

(\* start out by moving, not drawing)

(SETQ PREVSTATE @ALPHASTATE)  
(SETQ CURRSTATE @ALPHASTATE)

@ALPHASTATE

(\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)  
(COND

((ZEROP HI2BITS)  
(->NEXTSTATE @ALPHA.CTRLSTATE))  
(T (BOUT OUTSTREAM INBYTE)  
(->NEXTSTATE @ALPHASTATE)))

@GRAPHICSSTATE

(SETQ DRAWP NIL)  
(\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)  
(SELECTQ HI2BITS  
(0 (->NEXTSTATE @GRAPHICS.CTRLSTATE))  
(1 (->NEXTSTATE @HIYSTATE))  
(2 (->NEXTSTATE @LOXSTATE))  
(3 (->NEXTSTATE @LOYSTATE))  
NIL)

@HIYSTATE

(SETQ HIY LO5BITS)  
(\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)  
(SELECTQ HI2BITS  
(0 (->NEXTSTATE @GRAPHICS.CTRLSTATE))  
(1 (->NEXTSTATE @HIYSTATE))  
(2 (->NEXTSTATE @LOXSTATE))  
(3 (->NEXTSTATE @LOYSTATE))  
NIL)

@LOYSTATE

(SETQ LOY LO5BITS)  
(\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)  
(SELECTQ HI2BITS  
(0 (->NEXTSTATE @GRAPHICS.CTRLSTATE))  
(1 (->NEXTSTATE @HIXSTATE))  
(2 (->NEXTSTATE @LOXSTATE))  
(3 (->NEXTSTATE @LOYSTATE))  
NIL)

@HIXSTATE

(SETQ HIX LO5BITS)  
(\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)  
(SELECTQ HI2BITS  
(0 (->NEXTSTATE @GRAPHICS.CTRLSTATE))  
(1 (->NEXTSTATE @HIYSTATE))  
(2 (->NEXTSTATE @LOXSTATE))  
(3 (->NEXTSTATE @LOYSTATE))

```

NIL)
@LOXSTATE
  (SETQ LOX LO5BITS)
  (\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)
  (COND
    (DRAWP (TEK.DRAWTO (GLOMHI&LO HIX LOX)
                      (GLOMHI&LO HIY LOY)
                      1 NIL OUTSTREAM))
    (T (TEK.MOVETO (GLOMHI&LO HIX LOX)
                  (GLOMHI&LO HIY LOY)
                  OUTSTREAM)
      (SETQ DRAWP T)))
  (SELECTQ HI2BITS
    (0 (->NEXTSTATE @GRAPHICS.CTRLSTATE))
    (1 (->NEXTSTATE @HIYSTATE))
    (2 (->NEXTSTATE @LOXSTATE))
    (3 (->NEXTSTATE @LOYSTATE))
    NIL)
@ALPHA.CTRLSTATE
  (SELECTQ LO5BITS
    (7 (RINGBELLS 1))
    (8 (RELMOVETO -14 0 OUTSTREAM))
    (9 (RELMOVETO 14 0 OUTSTREAM))
    (10 (RELMOVETO 0 -22 OUTSTREAM))
    (11 (RELMOVETO 0 22 OUTSTREAM))
    (27 (->NEXTSTATE @ESCSTATE))
    (29 (->NEXTSTATE @GRAPHICSSTATE))
    (13 (MOVETO 0 (DSPYPOSITION NIL OUTSTREAM)
         OUTSTREAM)
      (->NEXTSTATE @ALPHASTATE))
    (31 (->NEXTSTATE @ALPHASTATE))
    NIL)
  (\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)
  (COND
    ((EQ HI2BITS 0)
     (->NEXTSTATE @ALPHA.CTRLSTATE))
    (T (->NEXTSTATE @ALPHASTATE)))
@GRAPHICS.CTRLSTATE
  (SELECTQ LO5BITS
    (4 (->NEXTSTATE @ALPHASTATE))
    (7 (RINGBELLS 1))
    (8 (RELMOVETO -14 0 OUTSTREAM))
    (9 (RELMOVETO 14 0 OUTSTREAM))
    (10 (RELMOVETO 0 -22 OUTSTREAM))
    (11 (RELMOVETO 0 22 OUTSTREAM))
    (27 (->NEXTSTATE @ESCSTATE))
    (29 (->NEXTSTATE @GRAPHICSSTATE))
    (13 (MOVETO 0 (DSPYPOSITION NIL OUTSTREAM)
         OUTSTREAM)
      (->NEXTSTATE @ALPHASTATE))
    (31 (->NEXTSTATE @ALPHASTATE))
    NIL)
  (\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)
  (SELECTQ HI2BITS
    (0 (->NEXTSTATE @GRAPHICS.CTRLSTATE))
    (1 (COND
        ((EQUAL PREVSTATE '@LOYSTATE)
         (->NEXTSTATE @HIXSTATE))
        (T (->NEXTSTATE @HIYSTATE))))
    (2 (->NEXTSTATE @LOXSTATE))
    (3 (->NEXTSTATE @LOYSTATE))
    NIL)
@ESCSTATE
  (\BIN7BITS INSTREAM INBYTE HI2BITS LO5BITS)
  (COND
    ((EQ LO5BITS 12)
     (DSPRESET OUTSTREAM))
    (->NEXTSTATE @ALPHASTATE])
)
(DECLARE%: EVAL@COMPILE
(PUTPROPS ->NEXTSTATE MACRO ((STATE)
                              (PROGN (SETQ PREVSTATE CURRSTATE)
                                       (SETQ CURRSTATE STATE)
                                       (GO STATE))))
(PUTPROPS \BIN7BITS MACRO [ARGS (LET ((INSTREAM (CAR ARGS))
                                       (INBYTE (CADR ARGS))
                                       (HI2BITS (CADDR ARGS))
                                       (LO5BITS (CADDDR ARGS)))
                                `(PROGN (SETQ %, INBYTE (LOGAND 127 (BIN %, INSTREAM)))
                                       (SETQ %, HI2BITS (LRSH %, INBYTE 5))
                                       (SETQ %, LO5BITS (LOGAND %, INBYTE 31))
)
(RPAQQ TEKPTSPERPOINT 2)

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{MEDLEY}<lispusers>TEK4010.;1

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(PUTPROPS **TEK4010 COPYRIGHT** ("Xerox Corporation" 1985 1988))

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