

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 TEKPTSPERPOINT)))
```

```
(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 TEKPTSPERPOINT)
      (IQUOTIENT Y TEKPTSPERPOINT)
      WIDTH OPERATION STREAM)])
```

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

```
(TEK.MOVETO
```

```
  [LAMBDA (X Y STREAM)
    (MOVETO (IQUOTIENT X TEKPTSPERPOINT)
      (IQUOTIENT Y TEKPTSPERPOINT)
      STREAM)])
```

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

```
(TEK4010.INTERP
```

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

      (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))
```

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

(* start out by moving, not drawing)

```

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 TEKTPSPERPOINT 2)

```

{MEDLEY}<lispusers>TEK4010.;1

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

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