

File created: 26-Jun-90 19:31:43 {DSK}<usr>local>lde>lispcore>internal>library>USPS.;2

changes to: (VARS USPSCOMS)

previous date: 13-Feb-89 13:49:35 {DSK}<usr>local>lde>lispcore>internal>library>USPS.;1

Read Table: XCL

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(RPAQQ **USPSCOMS**

(; Image Objects and functions for dealing with various kinds of mail.

(COMS ; FIMs -- "Facing Identification Marks" used with Business Reply Mail. The top of a FIM must be within 1/8" of the top of the envelope  
;; or card, and the right edge of the FIM must be 2" +/- 1/8" from the right edge of the card. You can tilt the FIM no more than 5  
;; degrees from vertical.

```
(FNS USPS-FIM.BUTTONEVENTINFN USPS-FIM.COPYFN USPS-FIM.CREATE USPS-FIM.CREATE.MENU
  USPS-FIM.DISPLAYFN USPS-FIM.GETFN3 USPS-FIM.IMAGEBOXFN USPS-FIM.INIT USPS-FIM.PUTFN)
(GLOBALVARS USPS-FIM.IMAGEFN3 USPS-FIM.MENU
  (USPS-FIM.STYLES '( (A T T NIL NIL T NIL NIL T T)
                     (B T NIL T T NIL T T NIL T)
                     (C T T NIL T NIL T NIL T T)
                     (D T T T NIL T NIL T T T)))
  (P (USPS-FIM.INIT))))
```

; Image Objects and functions for dealing with various kinds of mail.

; FIMs -- "Facing Identification Marks" used with Business Reply Mail. The top of a FIM must be within 1/8" of the top of the envelope or card, and the  
;; right edge of the FIM must be 2" +/- 1/8" from the right edge of the card. You can tilt the FIM no more than 5 degrees from vertical.

(DEFINEQ

(**USPS-FIM.BUTTONEVENTINFN**

(LAMBDA (IMAGEOBJ WINDOW SELECTION X Y SELWINDOW TEXTSTREAM BUTTON OPERATION)  
; Edited 13-Feb-89 12:29 by jds

;;; the user has pressed a button inside the bitmap object IMAGEOBJ. Bring up a menu of bitmap edit operations.

```
(PROG* ((FIM-STYLE (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))
  (COND
    ((OR (EQ BUTTON 'RIGHT)
         (AND OPERATION (NEQ OPERATION 'NORMAL)))) ; If he's extending a selection, or is selecting for
    (RETURN)) ; move/copy/delete, DON'T bring up the bitmap editing menu!
    (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM (OR (MENU (COND
      ((|type?| MENU USPS-FIM.MENU)
       USPS-FIM.MENU)
      (T (SETQ USPS-FIM.MENU (USPS-FIM.CREATE.MENU))))))
      FIM-STYLE))
    (IMAGEOBJPROP IMAGEOBJ 'CACHED.BITMAP NIL) ; And clear any cached shrunk bitmaps so the display looks
    (RETURN 'CHANGED)))) ; reasonable.
```

(**USPS-FIM.COPYFN**

(LAMBDA (IMAGEOBJ) ; Edited 13-Feb-89 13:03 by jds

; makes a copy of a bitmap image object.

(**USPS-FIM.CREATE** (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))))

(**USPS-FIM.CREATE**

(LAMBDA (FIM-STYLE) ; Edited 13-Feb-89 12:00 by jds

; returns an IMAGEOBJ that displays/prints as a Postal Service Facing Identification Mark for business-reply mail.

(IMAGEOBJCREATE FIM-STYLE BITMAPIMAGEFN))

(**USPS-FIM.CREATE.MENU**

(LAMBDA NIL ; Edited 13-Feb-89 12:27 by jds

; Creates the menu that comes up when you button in a FIM image object.

```
(|create| MENU
  TITLE _ "New Facing Style"
  ITEMS _ ' (A B C D)
  CENTERFLG _ T
  CHANGEOFFSETFLG _ 'Y
  MENUOFFSET _ (|create| POSITION
                XCOORD _ -1
                YCOORD _ 0))
```

(**USPS-FIM.DISPLAYFN**

```
(LAMBDA (IMAGEOBJ IMAGE.STREAM) ; Edited 13-Feb-89 12:18 by jds
;; Display a bitmap IMAGEOBJ on IMAGE.STREAM. Scales and rotates it if appropriate, and moves it down by DESCENT.
(LET* ((FIM-STYLE-LIST (CDR (ASSOC (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM)
                                USPS-FIM.STYLES)))
        (STREAM-SCALE (DSPSCALE NIL IMAGE.STREAM))
        (LINE-PITCH (FIXR (FTIMES STREAM-SCALE 72.27 1/16)))
        (LINE-WIDTH (FIXR (FTIMES STREAM-SCALE 72.27 0.031)))
        (FIM-HEIGHT (FIXR (FTIMES STREAM-SCALE (CONSTANT (TIMES 72.27 5/8))))))
  SHRUNK.BITMAP)
  (RELMOVETO 0 (IMINUS FIM-HEIGHT)
             IMAGE.STREAM)
  (([for] LINE-P [in] FIM-STYLE-LIST [do] (COND
                                         (LINE-P (RELDRAWTO 0 FIM-HEIGHT LINE-WIDTH 'PAINT IMAGE.STREAM)
                                         (RELMOVETO LINE-PITCH (IMINUS FIM-HEIGHT)
                                         IMAGE.STREAM)
                                         (T (RELMOVETO LINE-PITCH 0 IMAGE.STREAM)))))))
```

**(USPS-FIM.GETFN3**

```
(LAMBDA (STREAM) ; Edited 13-Feb-89 13:49 by jds
```

;; reads a bitmap image object from a file. This version stores the binary data rather than the character representation used by READBITMAP.

```
(USPS-FIM.CREATE (SELECTQ (\\BIN STREAM)
                          (0 'A)
                          (1 'B)
                          (2 'C)
                          (3 'D)
                          (HELP "Illegal FIM style"))))
```

**(USPS-FIM.IMAGEBOXFN**

```
(LAMBDA (IMAGEOBJ IMAGE.STREAM CURRENT.X RIGHT.MARGIN) ; Edited 13-Feb-89 12:19 by jds
```

;; returns an imagebox describing the size of the scaled bitmap

```
(LET* ((FIM-STYLE (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))
        (SCALE (DSPSCALE NIL IMAGE.STREAM))
        (WIDTH HEIGHT)
        (SETQ WIDTH (FIXR (FTIMES SCALE (CONSTANT (FTIMES 72.27 (+ 9/16 0.031))))))
        (SETQ HEIGHT (FIXR (FTIMES SCALE (CONSTANT (TIMES 72.27 5/8))))))
  ([create] IMAGEBOX
   XSIZE _ WIDTH
   YSIZE _ HEIGHT
   YDESC _ HEIGHT
   XKERN _ 0)))
```

**(USPS-FIM.INIT**

```
(LAMBDA NIL ; Edited 13-Feb-89 12:02 by jds
```

;; returns the function vector which gives the functional information for a bitmap image object.

```
(SETQ BITMAPIMAGEFNS (IMAGEFNSCREATE (FUNCTION USPS-FIM.DISPLAYFN)
                                       (FUNCTION USPS-FIM.IMAGEBOXFN)
                                       (FUNCTION USPS-FIM.PUTFN)
                                       (FUNCTION USPS-FIM.GETFN3)
                                       (FUNCTION USPS-FIM.COPYFN)
                                       (FUNCTION USPS-FIM.BUTTONEVENTINFN)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)
                                       (FUNCTION NIL)))
```

**(USPS-FIM.PUTFN**

```
(LAMBDA (OBJECT STREAM) ; Edited 13-Feb-89 12:05 by jds
; Put a description of a FIM object into the file.
```

```
(LET* ((FIM-STYLE (IMAGEOBJPROP OBJECT 'OBJECTDATUM))
        (\\ABOUT STREAM (SELECTQ FIM-STYLE
                                   (A 0)
                                   (B 1)
                                   (C 2)
                                   (D 3)
                                   (HELP "Invalid FIM Style" FIM-STYLE))))))
```

)

```
(DECLARE\ :DOEVAL@COMPILE DONTCOPY
```

```
(GLOBALVARS USPS-FIM.IMAGEFNS USPS-FIM.MENU (USPS-FIM.STYLES '( (A T T NIL NIL T NIL NIL T T)
                                                                (B T NIL T T NIL T T NIL T)
                                                                (C T T NIL T NIL T NIL T T)
                                                                (D T T T NIL T NIL T T T)))
```

)

{MEDLEY}<internal>envos>USPS.;1

**(USPS-FIM.INIT)**

(PUTPROPS **USPS COPYRIGHT** ("Venue & Xerox Corporation" 1989 1990))

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