

File created: 24-Sep-2023 13:54:45 {WMEDLEY}<lispusers>bitmapfns.;2

edit by: rmk

changes to: (FNS READPRESS)

previous date: 3-Jun-86 14:13:59 {WMEDLEY}<lispusers>bitmapfns.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

::
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```
(RPAQQ BITMAPFNSCOMS ((FNS READBINARYBITMAP WRITEBINARYBITMAP WRITEBM WRITEBMLST READBMLST READBM READPRESS
                        WINDOWBM)
                        (DECLARE%: DONTCOPY (MACROS RPCHK))))
```

```
(DEFINEQ
```

```
(READBINARYBITMAP
```

```
  [LAMBDA (WIDTH HEIGHT FILE)                                     (* Imm "4-JAN-83 00:19")
                                                                (* reads a bitmap from the output file.)
    (PROG ((BM (BITMAPCREATE WIDTH HEIGHT)))
      (\BINS (GETSTREAM FILE 'INPUT)
        (ffetch BITMAPBASE of BM)
        0
        (ITIMES (ffetch BITMAPASTERWIDTH of BM)
          (ffetch BITMAPHEIGHT of BM)
          2))
      (RETURN BM))
```

```
(WRITEBINARYBITMAP
```

```
  [LAMBDA (BITMAP FILE)                                           (* JWogulis "26-Dec-84 15:06")
    (\BOUTS FILE (ffetch BITMAPBASE of (SETQ BITMAP (\DTEST BITMAP 'BITMAP)
      0
      (ITIMES (ffetch BITMAPHEIGHT of BITMAP)
        (ffetch BITMAPASTERWIDTH of BITMAP)
        BYTESPERWORD]))
```

```
(WRITEBM
```

```
  [LAMBDA (FILE BITMAP)                                           (* Imm "6-Jun-85 16:46")
    [BOUT16 FILE (ffetch BITMAPWIDTH of (SETQ BITMAP (\DTEST BITMAP 'BITMAP)
    (BOUT16 FILE (ffetch BITMAPHEIGHT of BITMAP))
    (WRITEBINARYBITMAP BITMAP FILE))
```

```
(WRITEBMLST
```

```
  [LAMBDA (FILE LST)                                              (* JWogulis "26-Dec-84 15:06")
    (PROG [(F (OPENSTREAM FILE 'OUTPUT 'NEW)
      (for I in LST do (WRITEBM F I))
      (CLOSEF F])
```

```
(READBMLST
```

```
  [LAMBDA (FILE)                                                  (* JWogulis "26-Dec-84 15:08")
    (bind (F _ (OPENSTREAM FILE 'INPUT 'OLD)) until (EOFP F) collect (READBM F) finally (CLOSEF F))
```

```
(READBM
```

```
  [LAMBDA (FILE)                                                  (* Imm "6-Jun-85 16:46")
    (READBINARYBITMAP (BIN16 FILE)
      (BIN16 FILE)
      FILE))
```

```
(READPRESS
```

```
  [LAMBDA (FILENAME)                                              ; Edited 24-Sep-2023 13:54 by rmk
                                                                (* Imm "2-Jun-86 22:34")
    (RESETLST
      (PROG (WW HT MICAWIDTH MICAHEIGHT BITMAP TOTCOUNT (OFD (OPENSTREAM FILENAME 'INPUT 'OLD))
        X WIDTH)
        (RESETSIZE NIL (LIST 'CLOSEF OFD))
        (RPCHK 256)
        (SETQ WW (IQUOTIENT (BIN16 OFD)
          16))
        (SETQ HT (BIN16 OFD))
        (until (SELECTC (SETQ X (BIN16 OFD))
          ((IPLUS 512 3)
            (RPCHK 2)
            (SETQ MICAWIDTH (BIN16 OFD))
          (* Edotcode)
          (* Width)
          (* Height)
          (* Edotmode and 3)
          (* Edotsize)
```

```

                (SETQ MICAHEIGHT (BIN16 OFD))
                NIL)
(1 (* Edotwindow)
  (BIN16 OFD)
  (SETQ WIDTH (BIN16 OFD))
  (RPCHK 0)
  (RPCHK HT)
  NIL)
(3 T)
(GO ERROR)))
[\BINS OFD (fetch BITMAPBASE of (SETQ BITMAP (BITMAPCREATE (ITIMES WW 16)
                                                             HT)))
  0
  (ITIMES 2 (SETQ TOTCOUNT (ITIMES HT WW)
(RPCHK 0) (* Entity list terminator)
[COND (* more checks, not necessary)
  (NIL (* Nop, setx)
    (PROGN (RPCHK (IPLUS 65280 238))
            (RPCHK 0)
            (RPCHK (IPLUS 65280 239)) (* Nop, sety)
            (RPCHK 0)
            (RPCHK (IPLUS 65280 252)) (* Nop, show dots)
            (RPCHK 0]
    (RETURN BITMAP)
  ERROR
  (ERROR "Sorry, unrecognized PRESS file format. READPRESS isn't very general.")))]))

```

(WINDOWBM

```

[LAMBDA (BITMAP POSITION) (* JWogulis "26-Dec-84 15:37")
  (IF (AND POSITION (NOT (POSITIONP POSITION)))
    THEN (ERROR "NOT A POSITION" POSITION))
  [IF (NOT POSITION)
    THEN (SETQ POSITION (GETBOXPOSITION (IPLUS 8 (BITMAPWIDTH BITMAP))
                                       (IPLUS 8 (BITMAPHEIGHT BITMAP))
                                       (PROG ((WIND (CREATEW (LIST (CAR POSITION)
                                                                (CDR POSITION)
                                                                (IPLUS 8 (BITMAPWIDTH BITMAP))
                                                                (IPLUS 8 (BITMAPHEIGHT BITMAP)))
                                                                NIL 4)))
                                       (BITBLT BITMAP 0 0 WIND)
                                       (RETURN WIND]))
    )
  (DECLARE%: DONTCOPY
  (DECLARE%: EVAL@COMPILE
  (PUTPROPS RPCHK MACRO ((N)
    (OR (EQ (BIN16 OFD)
            N)
    (GO ERROR))))
  )
  (PUTPROPS BITMAPFNS COPYRIGHT ("Xerox Corporation" 1983 1984 1985 1986))

```

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