```
14-Mar-88 17:29:38 {MCS:MCS:STANFORD}<LANE>MONITOR.;9
 File created:
  changes to:
               (VARS MONITORCOMS)
               (FNS MONITOR.GET.BITMAP MONITOR MONITOR.BUTTONEVENTFN MONITOR.SHRINK.BITMAP MONITOR.SEND.BITMAP)
               (COURTERPROGRAMS MONITOR)
previous date:
               14-Mar-88 09:15:11 {MCS:MCS:STANFORD}<LANE>MONITOR::1
 Read Table:
               INTERLISP
    Package:
               INTERLISP
      Format:
                XCCS
(RPAQQ MONITORCOMS
        ((FNS MONITOR MONITOR.GET.BITMAP MONITOR.BUTTONEVENTFN MONITOR.SHRINK.BITMAP MONITOR.SEND.BITMAP)
         (COURIERPROGRAMS MONITOR)
        (INITVARS (MONITOR.SCALE 3)
                MONITOR.SCRATCH.BITMAPS)
         (GLOBALVARS MONITOR.SCALE MONITOR.SCRATCH.BITMAPS)
         (DECLARE%: DONTCOPY (RECORDS MONITOR.SCRATCH.BITMAP))
         (FILES COURIERSERVE BITMAPFNS)
        (P (COURIER.START.SERVER))))
(DEFINEO
(MONITOR
                                                                     ; Edited 14-Mar-88 13:46 by cdl
  [LAMBDA (HOST SCALE)
    (LET ((COURIER.STREAM (COURIER.OPEN HOST))
          BITMAP SCREEN.WINDOW CLOSEUP.WINDOW)
          (if (NULL SCALE)
              then (SETQ SCALE MONITOR.SCALE))
          (SETO BITMAP (MONITOR.GET.BITMAP COURIER.STREAM SCALE))
         [SETQ SCREEN.WINDOW (CREATEW (With REGION (GETBOXREGION (WIDTHIFWINDOW (BITMAPWIDTH BITMAP))
                                                              (TIMES (HEIGHTIFWINDOW (BITMAPHEIGHT BITMAP))
                                                                     2))
                                               (CREATEREGION LEFT BOTTOM WIDTH (QUOTIENT HEIGHT 2]
         (BITBLT BITMAP NIL NIL SCREEN.WINDOW)
          (SETQ CLOSEUP.WINDOW (CREATEW (With REGION (WINDOWPROP SCREEN.WINDOW 'REGION)
                                                (create REGION
                                                       LEFT
                                                             _ LEFT
                                                       BOTTOM _ PTOP
                                                       WIDTH _ WIDTH
                                                       HEIGHT _ (HEIGHTIFWINDOW (BITMAPHEIGHT BITMAP)
                                                                        HOST)))
                                       HOST))
         (ATTACHWINDOW CLOSEUP.WINDOW SCREEN.WINDOW)
(BITBLT (MONITOR.GET.BITMAP COURIER.STREAM SCALE (DSPCLIPPINGREGION NIL SCREEN.WINDOW))
                 NIL NIL CLOSEUP.WINDOW)
          (WINDOWPROP SCREEN.WINDOW 'MONITOR.SCALE SCALE)
(WINDOWPROP SCREEN.WINDOW 'COURIER.STREAM COURIER.STREAM)
          (WINDOWPROP SCREEN.WINDOW 'CLOSEUP.WINDOW CLOSEUP.WINDOW)
          (WINDOWPROP SCREEN.WINDOW 'BUTTONEVENTFN (FUNCTION MONITOR.BUTTONEVENTFN))
          [WINDOWADDPROP SCREEN.WINDOW 'CLOSEFN (FUNCTION (LAMBDA (WINDOW)
                                                                (CLOSEF? (WINDOWPROP WINDOW 'COURIER.STREAM))
                                                                (WINDOWPROP WINDOW 'CLOSEUP.WINDOW NIL]
         SCREEN.WINDOW])
(MONITOR.GET.BITMAP
  [LAMBDA (STREAM SCALE REGION)
                                                                     ; Edited 14-Mar-88 14:01 by cdl
    (LET (BULK.DATA.STREAM)
          (RESETLST
              [RESETSAVE NIL '(CLOSEF? , (SETQ BULK.DATA.STREAM (COURIER.CALL STREAM 'MONITOR 'SEND.BITMAP SCALE
                                                                          REGION NIL]
              (READBM BULK.DATA.STREAM))])
(MONITOR.BUTTONEVENTFN
  [LAMBDA (WINDOW)
                                                                     : Edited 14-Mar-88 13:33 by cdl
    (LET ((SCALE (WINDOWPROP WINDOW 'MONITOR.SCALE))
          REGION POSITION CLIPPINGREGION)
          (if (MOUSESTATE LEFT)
              then [with REGION (SETQ CLIPPINGREGION (DSPCLIPPINGREGION NIL WINDOW))
                         (SETQ REGION (CREATEREGION NIL NIL (QUOTIENT WIDTH SCALE)
                   (QUOTIENT HEIGHT SCALE)

(until (MOUSESTATE UP) do (if [with POSITION (SETQ POSITION (CURSORPOSITION NIL WINDOW POSITION))
                                                      (with REGION REGION (OR (NEQ XCOORD LEFT)
                                                                                (NEQ YCOORD BOTTOM]
                                                  then (with REGION REGION (if LEFT
                                                                               then (DSPFILL REGION BLACKSHADE
                                                                                            'INVERT WINDOW))
                                                            (with POSITION POSITION (SETQ LEFT XCOORD)
                                                                  (SETQ BOTTOM YCOORD)))
                                                       (DSPFILL REGION BLACKSHADE 'INVERT WINDOW)
                                               else (BLOCK))
                      finally (if (with REGION REGION LEFT)
                                then (DSPFILL REGION BLACKSHADE 'INVERT WINDOW)))
```

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(BITBLT [MONITOR.GET.BITMAP (WINDOWPROP WINDOW 'COURIER.STREAM)
                                   (with REGION CLIPPINGREGION
                                         (with POSITION (CURSORPOSITION NIL WINDOW POSITION)
                                               (create REGION
                                                      LEFT
                                                            _ (TIMES SCALE XCOORD)
                                                     BOTTOM _ (TIMES SCALE YCOORD)
WIDTH _ WIDTH
HEIGHT _ HEIGHT smashing REGION]
                          NIL NIL (WINDOWPROP WINDOW 'CLOSEUP.WINDOW))
           elseif (MOUSESTATE MIDDLE)
             then (RESETFORM (CURSOR WAITINGCURSOR)
                          (BITBLT (MONITOR.GET.BITMAP (WINDOWPROP WINDOW 'COURIER.STREAM)
                                          SCALE)
                                 NIL NIL WINDOW])
(MONITOR.SHRINK.BITMAP
                                                                      Edited 14-Mar-88 11:37 by cdl
  [LAMBDA (SOURCE SCALE DESTINATION SCRATCH)
                                                                     (* Specialized rewrite of SHRINKBITMAP)
    [if (EQP SCALE 1)
        then (BITBLT SOURCE NIL NIL DESTINATION)
      else (BLTSHADE WHITESHADE SCRATCH)
           (BLTSHADE WHITESHADE DESTINATION)
           (LET ((HEIGHT (BITMAPHEIGHT SOURCE))
                  (WIDTH (BITMAPWIDTH SOURCE)))
                (for Y from 0 to (SUB1 HEIGHT) do (BITBLT SOURCE 0 Y SCRATCH 0 (QUOTIENT Y SCALE)
                                                          WIDTH 1 'INPUT 'PAINT))
                (for x from 0 to (SUB1 WIDTH) do (BITBLT SCRATCH X 0 DESTINATION (QUOTIENT X SCALE) 0 1 HEIGHT 'INPUT 'PAINT]
    DESTINATION])
(MONITOR.SEND.BITMAP
  [LAMBDA (COURIERSTREAM PROGRAM PROCEDURE SCALE REGION BULK.DATA.STREAM)
                                                                     ; Edited 14-Mar-88 11:37 by cdl
    [LET ((SCRATCH.BITMAP (ASSOC SCALE MONITOR.SCRATCH.BITMAPS)))
         [if (NULL SCRATCH.BITMAP)
             then (push monitor.scratch.bitmaps (setq scratch.bitmap (with region wholescreen
                                                                               (create MONITOR.SCRATCH.BITMAP
                                                                                       BITMAPSCALE _ SCALE
                                                                                       DESTINATION
                                                                                       (BITMAPCREATE (QUOTIENT WIDTH
                                                                                                             SCALE)
                                                                                              (QUOTIENT HEIGHT SCALE))
                                                                                       SCRATCH
                                                                                       (BITMAPCREATE WIDTH
                                                                                              (QUOTIENT HEIGHT SCALE)
          (with MONITOR.SCRATCH.BITMAP SCRATCH.BITMAP (if REGION
                                                            then (BLTSHADE WHITESHADE DESTINATION)
                                                                 (with region region (BITBLT (SCREENBITMAP)
                                                                 LEFT BOTTOM DESTINATION))
(WRITEBM BULK.DATA.STREAM DESTINATION)
                                                          else (WRITEBM BULK.DATA.STREAM (MONITOR.SHRINK.BITMAP
                                                                                            (SCREENBITMAP)
                                                                                            SCALE DESTINATION SCRATCH]
    '(RETURN])
)
(COURIERPROGRAM MONITOR (1118 0)
    TYPES
      ((SCALE INTEGER)
        (REGION (SEQUENCE INTEGER)))
    PROCEDURES
      ((SEND.BITMAP 0 (SCALE REGION BULK.DATA.SINK)
              RETURNS NIL REPORTS NIL IMPLEMENTEDBY MONITOR.SEND.BITMAP))
    ERRORS
      NIL)
(RPAQ? MONITOR.SCALE 3)
(RPAO? MONITOR.SCRATCH.BITMAPS NIL)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS MONITOR.SCALE MONITOR.SCRATCH.BITMAPS)
(DECLARE%: DONTCOPY
(DECLARE%: EVAL@COMPILE
(RECORD MONITOR.SCRATCH.BITMAP (BITMAPSCALE DESTINATION SCRATCH))
```

(FILESLOAD COURIERSERVE BITMAPFNS)

(COURIER.START.SERVER)

{MEDLEY}<lispusers>MONITOR.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:14:26 --

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RECORD INDEX		
MONITOR.SCRATCH.BITMAP2		
	COURIERPROGRAM INDEX	
MONITOR2		