

File created: 5-Apr-89 16:23:30 {ERIS}<LISPCORE>SUNLOADUP>MAIKOLOADUPFNS.;6

changes to: (VARS MAIKOLOADUPFNSCOMS)
(FNS \DISPLAYLINE \10MB.STARTDRIVER \PAGEFAULT \COUNTREALPAGES \MOVEVMEMFILEPAGE \LOADVMEMPAGE
CHECKPAGEMAP \SHOWPAGETABLE \DIRTYBACKGROUND \WRITEDIRTYPAGE \UNLOCKPAGES \TEMPUNLOCKPAGES
\DOTEMPLOCKPAGES \DOLOCKPAGES \LOCKPAGES \DNEWPAGE \NEWPAGE \LOCKEDPAGEP \DORECLAIM
CL::%%COPY-TIME-STATS SETTIME \PUP.SETTIME \NS.SETTIME CLOCK CLOCK0 \CLOCK0 \DAYTIME0 DAYTIME
\CHECKSUM \10MB.RESTART.ETHER \10MB.TURNONETHER \10MB.TURNOFFETHER \10MBSENDPACKET
\10MBWATCHER \BITBLTSUB \BLTCHAR FIE)
(FILES LLNSDECLS)
(PROPS (MAIKOLOADUPFNS MAKEFILE-ENVIRONMENT))

previous date: 5-Apr-89 14:47:33 {ERIS}<LISPCORE>SUNLOADUP>MAIKOLOADUPFNS.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

;;
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(RPAQQ **MAIKOLOADUPFNSCOMS**
[(PROP (FILETYPE MAKEFILE-ENVIRONMENT)
MAIKOLOADUPFNS)
(FNS CL::%%COPY-TIME-STATS CHECKPAGEMAP CLOCK CLOCK0 DAYTIME SETTIME \10MB.RESTART.ETHER
\10MB.STARTDRIVER \10MB.TURNOFFETHER \10MB.TURNONETHER \10MBSENDPACKET \10MBWATCHER \BITBLTSUB
\BLTCHAR \CHECKSUM \CLOCK0 \COUNTREALPAGES \DAYTIME0 \DIRTYBACKGROUND \DISPLAYLINE \DOLOCKPAGES
\DNEWPAGE \DORECLAIM \DOTEMPLOCKPAGES \LOADVMEMPAGE \LOCKEDPAGEP \LOCKPAGES \MOVEVMEMFILEPAGE
\NEWPAGE \NS.SETTIME \PAGEFAULT \PUP.SETTIME \SHOWPAGETABLE \TEMPUNLOCKPAGES \UNLOCKPAGES
\WRITEDIRTYPAGE)
(GLOBALVARS \TimeZoneComp \10MB.RCLK.BOX \10MB.EXPECTED.RECEIVE.INTERVAL \10MB.INPUT.TIMEOUT
\10MB.INPUT.TIMER \10MBTYPE.TRANSLATIONS \MY.NSADDRESS \RAWTRACING \MAXWATCHERGETS)
(DECLARE%: EVAL@COMPILE DONTCOPY (LOCALVARS . T)
(FILES (SOURCE)
10MBDECLS LLNSDECLS TEDITDECLS))
(DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS
(ADDVARS (NLAMA)
(NLAML)
(LAMA \WRITEDIRTYPAGE \UNLOCKPAGES \TEMPUNLOCKPAGES \SHOWPAGETABLE \MOVEVMEMFILEPAGE
\LOCKPAGES \LOCKEDPAGEP \DOTEMPLOCKPAGES \DOLOCKPAGES \DIRTYBACKGROUND
\COUNTREALPAGES CHECKPAGEMAP])

(PUTPROPS **MAIKOLOADUPFNS FILETYPE** CL:COMPILE-FILE)

(PUTPROPS **MAIKOLOADUPFNS MAKEFILE-ENVIRONMENT** (:PACKAGE "INTERLISP" :READTABLE "INTERLISP" :BASE 10))

(DEFINEQ

(**CL::%%COPY-TIME-STATS**

[LAMBDA (REFERENCE-BLOCK DESTINATION-BLOCK) ; Edited 2-May-88 17:16 by MASINTER
(SUBRCALL COPYTIMESTATS REFERENCE-BLOCK DESTINATION-BLOCK)]

(**CHECKPAGEMAP**

[LAMBDA NOBIND ; (* Imm " 4-OCT-83 03:05")
NIL])

(**CLOCK**

[LAMBDA (N BOX) ; Edited 2-May-88 16:11 by MASINTER
(SUBRCALL GETUNIXTIME N BOX)]

(**CLOCK0**

[LAMBDA (BOX) ; Edited 2-May-88 16:19 by MASINTER
(SUBRCALL GETUNIXTIME 0 BOX)]

(**DAYTIME**

[LAMBDA (BOX) ; Edited 2-May-88 16:20 by MASINTER
(SUBRCALL GETUNIXTIME 5 BOX)]

(**SETTIME**

[LAMBDA (RETFLG) ; Edited 13-May-88 15:22 by MASINTER
(CL:UNLESS (AND RETFLG (NOT (STRINGP RETFLG)))
(SETQ \TimeZoneComp (SUBRCALL GETUNIXTIME 8 NIL)))
(\PROCESS.RESET.TIMERS)
(**DAYTIME**)]

(**\10MB.RESTART.ETHER**

[LAMBDA NIL ; Edited 11-May-88 16:09 by MASINTER
(SUBRCALL ETHER-RESUME)]

(\10MB.STARTDRIVER

```

[LAMBDA (NDB RESTARTFLG MYNSNUMBER) ; Edited 5-Apr-89 15:03 by snow
  (DECLARE (GLOBALVARS \MAIKO.INPUT.PACKET \10MB.EXPECTED.RECEIVE.INTERVAL \10MB.INPUT.TIMEOUT))
  (SUBRCALL ETHER-SUSPEND)
  (OR (\INIT.ETHER.BUFFER.POOL)
    (ERROR "Unable to create buffer pool"))
  (replace NDBTQ of NDB with (create SYSQUEUE))
  (SETQ \10MB.RAWPACKETQ (create SYSQUEUE))
  (SETQ \10MB.INPUT.TIMEOUT (TIMES \RCLKSECOND \10MB.EXPECTED.RECEIVE.INTERVAL))
  (\10MB.TURNONETHER NDB NIL NIL (OR MYNSNUMBER T)
    0 0)
  (PROG ((CSB (fetch NDBCSB of NDB)))
    (OR \MAIKO.INPUT.PACKET (SETQ \MAIKO.INPUT.PACKET (\ALLOCATE.ETHERPACKET)))
    (replace DLFIRSTICB of (fetch NDBCSB of NDB) with \ES.PENDING)
    (SUBRCALL ETHER-GET \10MBPACKETLENGTH (fetch 10MBPACKETBASE of \MAIKO.INPUT.PACKET))
    (replace NDBWATCHER of NDB with (ADD.PROCESS (LIST '\10MBWATCHER (KWOTE NDB))
      'RESTARTABLE
      'SYSTEM
      'AFTEREXIT
      'DELETE))
    (RETURN NDB])

```

(\10MB.TURNOFFETHER

```

[LAMBDA NIL ; Edited 11-May-88 16:11 by MASINTER
  (SUBRCALL ETHER-SUSPEND)]

```

(\10MB.TURNONETHER

```

[LAMBDA (NDB SMASHSTATE NEWSTATE NSHOSTNUMBER ININTERRUPT OUTINTERRUPT) ; Edited 11-May-88 16:08 by MASINTER

```

;;; Reset and activate ether associated with NDB. If SMASHSTATE is given, it is a CSB-length block into which state is saved for later restoration by
 ;; passing as the NEWSTATE arg. If NEWSTATE is NIL, then the remaining non-NIL args give parameters for this activation: the host number for
 ;; microcode to watch for, T meaning my own number; and interrupt masks for when a packet arrives or finishes transmitting

;; For Daybreak, SMASHSTATE and NEWSTATE must be NIL

```

(PROG ((CSB (fetch NDBCSB of NDB)))
  (\MAIKO.ETHERSUSPEND)
  (OR CSB (replace NDBCSB of NDB with (SETQ CSB (LOC (fetch DLETHERNET of \IOPAGE)
    (replace DLFIRSTOCB of CSB with 0)
    (replace DLFIRSTICB of CSB with 0)
    (AND NSHOSTNUMBER (COND
      ((EQ NSHOSTNUMBER T)
        (\BLT (LOC (fetch DLLOCALHOST0 of CSB))
          (LOC (fetch (IFPAGE NSHost0) of \InterfacePage))
          \#WDS.NSHOSTNUMBER))
      (T (\STORENSHOSTNUMBER (LOC (fetch DLLOCALHOST0 of CSB))
        NSHOSTNUMBER)
        (AND OUTINTERRUPT (replace DLOUTPUTMASK of CSB with OUTINTERRUPT))
        (AND ININTERRUPT (replace DLINPUTMASK of CSB with ININTERRUPT))
        (replace DLMISSEDPACKETS of CSB with 0)
        (replace DLLASTICB of CSB with 0)
        (replace DLLASTOCB of CSB with 0)
        (SUBRCALL ETHER-RESET)
        (SUBRCALL ETHER-RESUME)
        (RETURN NDB])

```

(\10MBSENDPACKET

```

[LAMBDA (NDB PACKET) ; Edited 11-May-88 16:10 by MASINTER
  (PROG NIL
    [COND
      (\RAWTRACING (\MAYBEPRINTPACKET PACKET 'RAWPUT]
    [COND
      ((OR (fetch 10MBMULTICASTP of PACKET)
        (EQNSADDRESS.HOST \MY.NSADDRESS (fetch 10MBDESTHOSTBASE of PACKET)))
        ; We would hear this packet if our hardware let us, so fake
        ; receipt
        (PROG ((COPYPACKET (\ALLOCATE.ETHERPACKET)))
          (\BLT (LOC (fetch 10MBLENGTH of COPYPACKET))
            (LOC (fetch 10MBLENGTH of PACKET))
            (ADD1 (fetch 10MBLENGTH of PACKET))) ; Copy all data that would have been transmitted
          (replace EPNETWORK of COPYPACKET with NDB)
          (replace EPTYPE of COPYPACKET with (for PAIR in \10MBTYPE.TRANSLATIONS
            bind (TYPE _ (fetch 10MBTYPE of PACKET))
            when (EQ TYPE (CAR PAIR))
            do
              ;; TYPE is the raw type of the etherpacket. These do not always correspond one-to-one with the
              ;; EPTYPE constants we use (in particular, for pups), so translate if necessary.
              (RETURN (CDR PAIR))
            finally (RETURN TYPE)))
          [COND
            (\RAWTRACING (\MAYBEPRINTPACKET COPYPACKET 'RAWGET]

```

```

        (\HANDLE.RAW.PACKET COPYPACKET]
    (UNINTERRUPTABLY
        (SUBRCALL ETHER-SEND (IMAX (fetch 10MBLENGTH of PACKET)
                                   \10MB.MINPACKETLENGTH)
            (fetch 10MBPACKETBASE of PACKET))
        (replace EPNETWORK of PACKET with NIL)
        (\REQUEUE.ETHERPACKET PACKET))
    (RETURN T])

```

(\10MBWATCHER

; Edited 16-May-88 22:24 by MASINTER

```

[LAMBDA (NDB)
;; merge message and packet reading
(PROG ((CNTR 0)
    MESSAGE-BUFFER MESSAGE-LENGTH PACKET)
    LP (IF (SUBRCALL MESSAGE-READP)
        THEN (PROMPTPRINT (IF (SETQ MESSAGE-LENGTH (SUBRCALL MESSAGE-READ (OR MESSAGE-BUFFER
                                                                                     (SETQ MESSAGE-BUFFER
                                                                                     (ALLOCSTRING 1024)))
                                1024))
                            THEN (SUBSTRING MESSAGE-BUFFER 1 MESSAGE-LENGTH)
                            ELSE "?? system message: polling failed"))
        (UNINTERRUPTABLY
            (SUBRCALL ETHER-CHECK)
            (SETQ PACKET (\MAIKO.INPUT.INTERRUPT NDB)))
    [COND
        (PACKET (\HANDLE.RAW.PACKET PACKET)
            (COND
                ((ILESSP (add CNTR 1)
                        \MAXWATCHERGETS)
                    (GO LP]
            (BLOCK)
            (SETQ CNTR 0)
            (GO LP])

```

(\BITBLTSUB

```

[LAMBDA (PILOTBBT SourceBitMap SLX STY DestinationBitMap DLX DTY HEIGHT SourceType Operation Texture
    WindowXOffset WindowYOffset)

```

; Edited 29-Jun-88 16:24 by

```

;; replaces \BITBLTSUB on Maiko
((OPCODES SUBRCALL 69 13)
    PILOTBBT SourceBitMap SLX STY DestinationBitMap DLX DTY HEIGHT SourceType Operation Texture WindowXOffset
    WindowYOffset])

```

(\BLTCHAR

```

[LAMBDA (CHARCODE DISPLAYSTREAM DISPLAYDATA)
    ((OPCODES SUBRCALL 135 3)
        CHARCODE DISPLAYSTREAM DISPLAYDATA])

```

(\CHECKSUM

```

[LAMBDA (BASE NWORDS INITSUM)
    (SUBRCALL CHECK-SUM BASE NWORDS INITSUM])

```

; Edited 20-May-88 11:48 by MASINTER

(\CLOCK0

```

[LAMBDA (BOX)
    (SUBRCALL GETUNIXTIME 0 BOX])

```

; Edited 2-May-88 16:19 by MASINTER

(\COUNTREALPAGES

```

[LAMBDA NOBIND
    0])

```

(* Imm " 4-OCT-83 03:05")

(\DAYTIME0

```

[LAMBDA (BOX)
    (SUBRCALL GETUNIXTIME 4 BOX])

```

; Edited 2-May-88 16:20 by MASINTER

(\DIRTYBACKGROUND

```

[LAMBDA NOBIND
    NIL])

```

(* Imm " 4-OCT-83 03:05")

(\DISPLAYLINE

```

[LAMBDA (TEXTOBJ LINE WINDOW)

```

; Edited 5-Apr-89 16:22 by snow

```

;; Display the line of text LINE in the edit window where it belongs.
;; This Function works on MIAKO
(PROG ((CH 0)
    (CHLIST (fetch (THISLINE CHARS) of (fetch THISLINE of TEXTOBJ)))
    (WLIST (fetch (THISLINE WIDTHS) of (ffetch THISLINE of TEXTOBJ)))
    (LOOKS (fetch (THISLINE LOOKS) of (ffetch THISLINE of TEXTOBJ)))

```

```

(WINDOWDS (WINDOWPROP (OR WINDOW (CAR (fetch (TEXTOBJ \WINDOW) of TEXTOBJ)))
  'DSP))
(TEXTLEN (ffetch (TEXTOBJ TEXTLEN) of TEXTOBJ))
(THISLINE (ffetch (TEXTOBJ THISLINE) of TEXTOBJ))
(TERMSA (ffetch (TEXTOBJ TXTTERMSA) of TEXTOBJ))
(STREAM (ffetch (TEXTOBJ STREAMHINT) of TEXTOBJ))
(OLDCACHE (fetch LCBITMAP of (ffetch (TEXTOBJ DISPLAYCACHE) of TEXTOBJ)))
(DS (ffetch (TEXTOBJ DISPLAYCACHEDS) of TEXTOBJ))
(HCPYDS (ffetch (TEXTOBJ DISPLAYHCPYDS) of TEXTOBJ))
(HARDCOPYMODE (fetch (FMTSPEC FMTHARDCOPY) of (fetch (LINEDESCRIPTOR LFMTSPEC) of LINE)))
LOOKSTARTX CACHE \PCHARSLEFT \PSTRING \PFILE FONT OFONT OLOOKS XOFFSET CLIPLEFT CLIPRIGHT DISPLAYDATA
DDPILOTBBT DDWIDTHCACHE DDOFFSETCACHE CURY LHEIGHT SCALE)
[SETQ LHEIGHT (COND
  ((ffetch (LINEDESCRIPTOR PREVLINE) of LINE)
    ; So if theres a base-to-base measure, we clear everything right.
    (IMAX (IDIFFERENCE (fetch YBOT of (ffetch (LINEDESCRIPTOR PREVLINE) of LINE))
      (ffetch (LINEDESCRIPTOR YBOT) of LINE))
      (ffetch (LINEDESCRIPTOR LHEIGHT) of LINE)))
    (T (ffetch (LINEDESCRIPTOR LHEIGHT) of LINE))
  )
(COND
  (HARDCOPYMODE
    ; This is a hardcopy-mode line. Scale things.
    ; (SETQ DS HCPYDS)
    (SETQ SCALE (DSPSCALE NIL HCPYDS)))
    (T (SETQ SCALE 1)))
  (SETQ CACHE (\TEDIT.LINECACHE (ffetch (TEXTOBJ DISPLAYCACHE) of TEXTOBJ)
    (COND
      (HARDCOPYMODE (FIXR (FQUOTIENT (fetch RIGHTMARGIN of LINE)
        SCALE)))
      (T (fetch RIGHTMARGIN of LINE)))
      LHEIGHT))
  )
(COND
  ((NEQ CACHE OLDCACHE)
    ; We changed the bitmaps because this line was bigger--update
    ; the displaystream, too
    (DSPDESTINATION CACHE DS)
    (DSPCLIPPINGREGION (create REGION
      LEFT _ 0
      BOTTOM _ 0
      WIDTH _ (fetch BITMAPWIDTH of CACHE)
      HEIGHT _ (ffetch BITMAPHEIGHT of CACHE)
      DS)))
  (BITBLT NIL 0 0 CACHE 0 0 NIL NIL 'TEXTURE 'REPLACE WHITESHADE)
  ; Clear the line cache
  )
(COND
  (HARDCOPYMODE
    ; This is a hardcopy-mode line. Scale things.
    ; (SETQ DS HCPYDS)
    (SETQ SCALE (DSPSCALE NIL HCPYDS)))
    (T (SETQ SCALE 1)))
  )
[COND
  ((AND (NOT (ZEROP (fetch CHAR1 of LINE)))
    (ILEQ (ffetch CHAR1 of LINE)
      TEXTLEN)
    (IGEQ (ffetch YBOT of LINE)
      (ffetch WBOTTOM of TEXTOBJ)))
    ;; Only display the line of it contains text (CHAR1 > 0), appears before the end of the test, and is on-screen.
    (COND
      ((NEQ (fetch DESC of THISLINE)
        LINE)
        ; No image cache -- re-format and display
        (\FORMATLINE TEXTOBJ NIL (ffetch CHAR1 of LINE)
          LINE))
      (MOVETO (ffetch LEFTMARGIN of LINE)
        (ffetch DESCENT of LINE)
        DS)
      (SETQ DISPLAYDATA (fetch IMAGEDATA of DS))
      (SETQ DDPILOTBBT (ffetch DDPILOTBBT of DISPLAYDATA))
      (SETQ XOFFSET (ffetch DDXOFFSET of DISPLAYDATA))
      ;; The X position of the left edge of the window, since \TEDIT.BLTCHAR works on the screen bitmap itself.
      (SETQ CLIPLEFT (ffetch DDclippingLeft of DISPLAYDATA))
      ; The left and right edges of the clipping region for the text
      ; display window.
      (SETQ CLIPRIGHT (ffetch DDclippingRight of DISPLAYDATA))
      (SETQ OFONT (DSPFONT (fetch CLFONT of (SETQ OLOOKS (\EDITELT LOOKS 0)))
        DS))
      ; The starting font
      (SETQ DDWIDTHCACHE (ffetch DDWIDTHSCACHE of DISPLAYDATA))
      ; Cache the character-image widths
      (SETQ DDOFFSETCACHE (ffetch DDOFFSETSCACHE of DISPLAYDATA))
      ; And the offset-into-strike-bitmap array
      (SETQ LOOKSTARTX (ffetch LEFTMARGIN of LINE))
      ; Starting X position for the current-looks text.
      (AND (fetch CLOFFSET of OLOOKS)
        (RELMOVETO 0 (FIXR (FTIMES SCALE (ffetch CLOFFSET of OLOOKS)))
          DS))
        ; Any sub- or superscripting at start of line
      )
      (bind (LOOKNO _ 1)
        DX
        (TX _ (IPLUS XOFFSET (ffetch LEFTMARGIN of LINE))) for I from 0
        to (fetch LEN of THISLINE)
        do
          ;; Display the line character by character

```

```

(SETQ CH (\EDITELT CHLIST I)) ; Grab the character (or IMAGEOBJ) to display
(SETQ DX (\WORDELT WLST I)) ; And its width
[SELECTC CH ; An INVISIBLE run -- skip it, and skip over the char count
  (LMInvisibleRun ; A LOOKS change
    (add LOOKNO 1) ; Make the displaystream reflect our current X position
    (LMLooksChange (freplace DDXPOSITION of DISPLAYDATA with (IDIFFERENCE TX XOFFSET))
      (TEDIT.MODIFYLOOKS LINE LOOKSTARTX DS OLOOKS (ffetch DESCENT of LINE))
      ; Make any necessary changes to the preceding characters
      ; (underline, strike-out &c)
      (DSPFONT (fetch CLFONT of (SETQ OLOOKS (\EDITELT LOOKS LOOKNO)))
        DS) ; Set the new font
      (add LOOKNO 1) ; Grab the next set of char looks
      (AND (ffetch CLOFFSET of OLOOKS)
        (RELMOVETO 0 (ffetch CLOFFSET of OLOOKS)
          DS)) ; Account for super/subscripting
      (SETQ LOOKSTARTX (IDIFFERENCE TX XOFFSET)) ; Remember the starting Xpos for possible later underlining &c
    )
  )
  ((CHARCODE (TAB %#^I)) ; TAB: use the width from the cache to decide the right
    ; formatting.
    [COND
      ((OR (IEQP CH (CHARCODE %#^I))
        (ffetch CLLEADER of OLOOKS)
        (EQ (ffetch CLUSERINFO of OLOOKS)
          'DOTTEDLEADER))
        (LET* [[LEADERFONT (COND
          (HARDCOPYMODE (FONTCOPY (ffetch CLFONT of OLOOKS)
            'DEVICE HCPYDS))
          (T (ffetch CLFONT of OLOOKS))
        ]
          (DOTWIDTH (CHARWIDTH (CHARCODE %.)
            LEADERFONT))
          (TTX (IPLUS TX DOTWIDTH (IDIFFERENCE DOTWIDTH (IREMAINDER TX DOTWIDTH)
            (while (ILEQ TTX (IPLUS TX DX))
              do (COND
                (HARDCOPYMODE (SUBRCALL TEDIT.BLTCHAR (CHARCODE %.)
                  DS
                  (FIXR (FQUOTIENT (IDIFFERENCE TTX DOTWIDTH)
                    SCALE))
                  DISPLAYDATA DDPILOTBBT CLIPRIGHT))
                ((OR TERMSA HARDCOPYMODE)
                  ; Using special instrns from TERMSA
                  (\DSPPRINTCHAR DS (CHARCODE %.)
                    ; Native charcodes
                    (SUBRCALL TEDIT.BLTCHAR (CHARCODE %.)
                      DS
                      (IDIFFERENCE TTX DOTWIDTH)
                      DISPLAYDATA DDPILOTBBT CLIPRIGHT)))
                (add TTX DOTWIDTH))
              ; It's a CR
            )
          )
        )
      (13
        NIL)
      (COND
        [ (SMALLP CH) ; Normal character -- just display it.
          (COND
            (HARDCOPYMODE (SUBRCALL TEDIT.BLTCHAR CH DS (FIXR (FQUOTIENT TX SCALE)
              DISPLAYDATA DDPILOTBBT CLIPRIGHT))
              ; Using special instrns from TERMSA
            )
            ((OR TERMSA HARDCOPYMODE)
              (\DSPPRINTCHAR DS CH)
              ; Native charcodes
            )
            (T
              (SUBRCALL TEDIT.BLTCHAR CH DS TX DISPLAYDATA DDPILOTBBT CLIPRIGHT]
              ; CH is an object.
            )
            (MOVETO (IDIFFERENCE (FIXR (FQUOTIENT TX SCALE))
              XOFFSET)
              (SETQ CURY (DSPYPOSITION NIL DS))
              DS) ; Go to the base line, left edge of the image region.
            (APPLY* (IMAGEOBJPROP CH 'DISPLAYFN)
              CH DS 'DISPLAY (ffetch STREAMHINT of TEXTOBJ))
              ; Tell him to display himself here.
            )
            (DSPFONT (ffetch CLFONT of OLOOKS)
              DS)
            (MOVETO (IDIFFERENCE (FIXR (FQUOTIENT TX SCALE))
              XOFFSET)
              CURY DS) ; Move to after the object's image
          )
        ]
        (add TX DX) ; Update our X position
      )
      finally (freplace DDXPOSITION of DISPLAYDATA with (IDIFFERENCE (FIXR (FQUOTIENT TX SCALE)
        XOFFSET))
        ; Make any necessary looks mods to the last run of characters
      )
      (TEDIT.MODIFYLOOKS LINE LOOKSTARTX DS OLOOKS (ffetch DESCENT of LINE)
        (BITBLT CACHE 0 0 WINDOWS 0 (ffetch YBOT of LINE)
          (ffetch WRIGHT of TEXTOBJ)
          LHEIGHT
          'INPUT

```

```

      ' REPLACE)                                ; Paint the cached image on the screen (this lessens flicker
                                              ; during update)
(COND
  ((ffetch (FMTSPEC FMTREVISED) of (ffetch (LINEDESCRIPTOR LFMTSPEC) of LINE))
    ; This paragraph has been revised, so mark it.
    (\TEDIT.MARK.REVISION TEXTOBJ (ffetch (LINEDESCRIPTOR LFMTSPEC) of LINE)
      WINDOWDS LINE)))
(SELECTQ (ffetch LMARK of LINE)
  (GREY                                          ; This line has some property that isn't visible to the user. Tell
                                              ; him to be careful
    (BITBLT NIL 0 0 WINDOWDS 0 (ffetch YBASE of LINE)
      6 6 'TEXTURE 'PAINT 42405))
  (SOLID                                        ; This line has some property that isn't visible to the user. Tell
                                              ; him to be careful
    (BITBLT NIL 0 0 WINDOWDS 0 (ffetch YBASE of LINE)
      6 6 'TEXTURE 'PAINT BLACKSHADE))
  (BITBLT NIL 0 0 WINDOWDS 0 (ffetch YBASE of LINE)
    6 6 'TEXTURE 'REPLACE WHITESHADE))

```

(\DOLOCKPAGES

```

[LAMBDA NOBIND
  NIL])

```

(* Imm " 4-OCT-83 03:05")

(\DNEWPAGE

```

[LAMBDA (BASE NOERROR LOCK?)
  (SUBRCALL NEWPAGE BASE)])

```

; Edited 20-Apr-88 10:28 by MASINTER

(\DORECLAIM

```

[LAMBDA NIL
  (SUBRCALL DORECLAIM)])

```

; Edited 12-Oct-88 12:01 by krivacic

(\DOTEMPLOCKPAGES

```

[LAMBDA NOBIND
  NIL])

```

(* Imm " 4-OCT-83 03:05")

(\LOADVMEMPAGE

```

[LAMBDA (X)
  X])

```

(* Imm%: 26 JUN 75 726)

(\LOCKEDPAGEP

```

[LAMBDA NOBIND
  T])

```

(* Imm " 4-OCT-83 03:05")

(\LOCKPAGES

```

[LAMBDA NOBIND
  NIL])

```

(* Imm " 4-OCT-83 03:05")

(\MOVEVMEMFILEPAGE

```

[LAMBDA NOBIND
  T])

```

(* Imm " 4-OCT-83 03:05")

(\NEWPAGE

```

[LAMBDA (BASE NOERROR LOCK?)
  (SUBRCALL NEWPAGE BASE)])

```

; Edited 20-Apr-88 10:28 by MASINTER

(\NS.SETTIME

```

[LAMBDA (RETFLG)
  (CL:UNLESS (AND RETFLG (NOT (STRINGP RETFLG)))
    (SETQ \TimeZoneComp (SUBRCALL GETUNIXTIME 8 NIL)))
  (\PROCESS.RESET.TIMERS)
  (DAYTIME))

```

; Edited 13-May-88 15:22 by MASINTER

(\PAGEFAULT

```

[LAMBDA (X)
  X])

```

(* Imm%: 26 JUN 75 726)

(\PUP.SETTIME

```

[LAMBDA (RETFLG)
  (CL:UNLESS (AND RETFLG (NOT (STRINGP RETFLG)))
    (SETQ \TimeZoneComp (SUBRCALL GETUNIXTIME 8 NIL)))
  (\PROCESS.RESET.TIMERS)
  (DAYTIME))

```

; Edited 13-May-88 15:22 by MASINTER

(\SHOWPAGETABLE

{MEDLEY}<obsolete>sunloadup>MAIKOLOADUPFNS.;1 (\SHOWPAGETABLE cont.)

Page 7

[LAMBDA NOBIND
NIL])

(* Imm " 4-OCT-83 03:05")

(\TEMPUNLOCKPAGES

[LAMBDA NOBIND
NIL])

(* Imm " 4-OCT-83 03:05")

(\UNLOCKPAGES

[LAMBDA NOBIND
NIL])

(* Imm " 4-OCT-83 03:05")

(\WRITEDIRTYPAGE

[LAMBDA NOBIND
NIL])

(* Imm " 4-OCT-83 03:05")

)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS \TimeZoneComp \10MB.RCLK.BOX \10MB.EXPECTED.RECEIVE.INTERVAL \10MB.INPUT.TIMEOUT \10MB.INPUT.TIMER
\10MBTYPE.TRANSLATIONS \MY.NSADDRESS \RAWTRACING \MAXWATCHERGETS)

)

(DECLARE%: EVAL@COMPILE DONTCOPY

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(LOCALVARS . T)

)

(FILESLOAD (SOURCE)
10MBDECLS LLNSDECLS TEDITDECLS)

)

(DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS

(ADDTOVAR **NLAMA**)

(ADDTOVAR **NLAML**)

(ADDTOVAR **LAMA** \WRITEDIRTYPAGE \UNLOCKPAGES \TEMPUNLOCKPAGES \SHOWPAGETABLE \MOVEVMEMFILEPAGE \LOCKPAGES
\LOCKEDPAGEP \DOTEMPLOCKPAGES \DOLOCKPAGES \DIRTYBACKGROUND \COUNTREALPAGES CHECKPAGEMAP)

)

(PUTPROPS **MAIKOLOADUPFNS COPYRIGHT** ("ENVOS Corporation" 1989))

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