```
4-Oct-2022 16:42:36 {DSK}<home>larry>medley>sources>IDLER.;2
 File created:
  changes to:
                 (FNS \IDLE.OUT)
previous date:
                28-Sep-2022 19:54:40 {DSK}<home>larry>medley>sources>IDLER.;1
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                  XCCS
"; Copyright (c) 1985-1990, 1992, 2022 by Venue & Xerox Corporation.
(RPAQQ IDLERCOMS
        ([COMS
          ;; Basic idling facility
           (FNS IDLE IDLE.SET.OPTION IDLE.SHOW.OPTIONS IDLE.SHOW.OPTION \IDLER \IDLE.WAIT \OK.TO.IDLE? \IDLE.TIME
                 \IDLE.OUT \IDLE.EXIT? \IDLE.PROMPT.WATCHER \IDLE.EXIT.ABORT \IDLE.PROMPTING.WINDOW
          \IDLE.IS.PREVIOUS \IDLE.ISMEMBER \IDLE.AUTHENTICATE \IDLERKEYACTION)
(INITVARS (IDLE.PROFILE '(TIMEOUT 0))
                                                                             ; so that it doesn't start idling during the loadup
                   (\IDLING)
                   (CH.DEFAULT.DOMAIN)
                   (DEFAULTREGISTRY)
                   (IDLE.KEYACTIONTABLE))
           (ADDVARS (SYSTEMINITVARS (IDLE.PROFILE ALLOWED.LOGINS NIL FORGET NIL TIMEOUT 0 DISPLAYFN IDLE.RANDOM
                                                 SAVEVM 5 LOGOUT 5))
                   (IDLE.SUSPEND.PROCESS.NAMES MOUSE)
                   (IDLE.RESETVARS (PUPTRACEFLG NIL)
                           (XIPTRACEFLG NIL)))
           (GLOBALVARS IDLE.PROFILE \IDLING \LASTUSERACTION IDLE.RESETVARS IDLE.SUSPEND.PROCESS.NAMES
                   CH.DEFAULT.DOMAIN DEFAULTREGISTRY \AFTERLOGINFNS SAVINGCURSOR \VMEM.INHIBIT.WRITE
                   \IDLE.PASSWORD.SET)
           (LOCALVARS . T)
           (DECLARE%: DONTEVAL@LOAD DOCOPY (P (FONTCREATE 'TIMESROMAND 36))
                   [ADDVARS (BACKGROUNDFNS \IDLE.OUT)
                           (BackgroundMenuCommands
                             (Idle '(IDLE)
                                   "Enter Idle mode"
                                    (SUBITEMS ("Show Profile" '(IDLE.SHOW.OPTIONS)
                                                        "Print current idle options in prompt window")
                                            ("Set Timeout" '(IDLE.SET.OPTION 'TIMEOUT)
                                                     "Set how long before idling started"
                                                     (SUBITEMS ("Never" (IDLE.SET.OPTION 'TIMEOUT 0)
                                                                         "Never spontaneously enter idle mode")))
                                            ("Choose Display" '(IDLE.SET.OPTION 'DISPLAYFN)
                                                     "Choose idle display")
                                            ("Forget" '(IDLE.SHOW.OPTION 'FORGET)
                                                     "Erase password when leaving idle mode?"
(SUBITEMS ("Do" '(IDLE.SET.OPTION 'FORGET T)
                                                             "Erase password upon exiting idle mode")
("Don't" '(IDLE.SET.OPTION 'FORGET NIL)
                                                                     "Retain password through idle mode (unless someone logs in)"))
                                            ["Allowed Logins" '(IDLE.SHOW.OPTION 'ALLOWED.LOGINS)
                                                    "Who can exit idle mode"
(SUBITEMS ("Unlocked" '(IDLE.SET.OPTION 'ALLOWED.LOGINS 'UNLOCKED)

"No login required to exit idle mode")
("Locked" '(IDLE.SET.OPTION 'ALLOWED.LOGINS '(T))
                                                             "Only the current user may exit idle mode") ("Any Login" '(IDLE.SET.OPTION 'ALLOWED.LOGINS '(*))
                                                             "Any user may exit, but require login") ("Group" '(IDLE.SET.OPTION 'ALLOWED.LOGINS 'ADD)
                                                                     "Only allow specific users and/or groups to exit" (SUBITEMS ("Include Previous User"
                                                                                   '(IDLE.SET.OPTION 'ALLOWED.LOGINS T)
                                                                                  "If current user exits, check old
                                                                                  password")
                                                                              ("Add Member" '(IDLE.SET.OPTION
                                                                                                        'ALLOWED.LOGINS
                                                                                                        'ADD)
                                                                                      "Add a group or username")
                                                                              ("Remove Member" '(IDLE.SET.OPTION
                                                                                                           'ALLOWED.LOGINS
                                                                                                           'REMOVE)
                                                                                      "Remove a group or username"]
                                            ("Authenticate" '(IDLE.SHOW.OPTION 'AUTHENTICATE)
                                                     "Authenticate user upon exiting idle mode?"
                                                     (SUBITEMS ("Do" '(IDLE.SET.OPTION 'AUTHENTICATE T)

"User will be authenticated upon exiting idle mode")
                                                             ("Unix" '(IDLE.SET.OPTION 'AUTHENTICATE 'UNIX)
                                                                     "User will be authenticated in Unix upon exiting idle
                                                                     mode")
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("NS" '(IDLE.SET.OPTION 'AUTHENTICATE 'NS)
                                                                  "User will be authenticated in XNS upon exiting idle
                                                                  mode")
                                                           ("GV" '(IDLE.SET.OPTION 'AUTHENTICATE 'GV)
                                                                  "User will be authenticated in Grapevine upon exiting
                                                                  idle mode")
                                                           ("Don't" '(IDLE.SET.OPTION 'AUTHENTICATE NIL)
                                                                   "Accept any password--no authentication check"]
                  [VARS (BackgroundMenu)
                     (\IDLING.OVER (CREATE.EVENT '\IDLING.OVER] (\DAYTIME0 \LASTUSERACTION]
         (COMS ;; Default idle display
                (FNS IDLE.BOUNCING.BOX IDLE.BITMAP IDLE.RANDOM)
                [INITVARS (IDLE.BOUNCING.BOX (BITMAPCOPY LOGOBITMAP))
                        (IDLE.FUNCTIONS '(["Bouncing Box" #'(LAMBDA (W)
                                                                          (IDLE.BOUNCING.BOX W (USERNAME NIL NIL T)
                                             (Random 'IDLE, RANDOM)
                (GLOBALVARS IDLE.FUNCTIONS IDLE.BOUNCING.BOX))))
;; Basic idling facility
(DEFINEQ
(IDLE
  [LAMBDA (FROMTIMEOUT)
                                                                          ; Edited 20-Nov-87 11:22 by Snow
     (COND
        ((NOT \IDLING)
         (OR (FNTYP (LISTGET IDLE.PROFILE 'DISPLAYFN))
              (LISTPUT IDLE.PROFILE 'DISPLAYFN 'IDLE.BOUNCING.BOX))
         (\CARET.DOWN)
         (SETQ \IDLING T)
         (ADD.PROCESS (LIST '\IDLER (KWOTE FROMTIMEOUT))
'RESTARTABLE T 'NAME 'IDLE 'KEYACTION (\IDLERKEYACTION])
(IDLE.SET.OPTION
  [LAMBDA (OPTION X)
                                                                          (* drc%: " 3-Jan-86 11:47")
     (CLEARW PROMPTWINDOW)
     (IDLE.SHOW.OPTION OPTION "Old")
          ((OLD.OPTION (LISTGET IDLE.PROFILE OPTION)))
          (LISTPUT IDLE.PROFILE OPTION
                  (SELECTO OPTION
                        (DISPLAYFN (OR X (MENU (create MENU
                                                          ITEMS _ IDLE.FUNCTIONS))
                                         OLD.OPTION))
                        (TIMEOUT (LET [ (MINS (OR X (if (FGETD 'RNUMBER)
                                                         them (RNUMBER "Idle Timeout (in minutes)" NIL N else (MKATOM (PROMPTFORWORD "Idle Timeout:" NIL NIL
                                                                                             (in minutes) " NIL NIL NIL T)
                                                                               PROMPTWINDOW NIL 'TTY]
                                        (if (NULL MINS)
                                            then OLD.OPTION
                                          elseif (AND (SMALLP MINS)
                                                      (GREATERP MINS 0))
                                            then MINS
                                          else NIL)))
                        (ALLOWED.LOGINS
                             (SELECTQ X
                                  (UNLOCKED NIL)
                                  (T (UNION (LIST T)
                                             OLD.OPTION))
                                  (ADD (LET [(GROUP (PROMPTFORWORD "Add to allowed login list:" NIL NIL PROMPTWINDOW
                                                              NIL 'TTY]
                                              (TERPRI PROMPTWINDOW)
                                              (COND
                                                 ((NULL GROUP)
                                                  OLD.OPTION)
                                                 ([OR (NOT (LISTGET IDLE.PROFILE 'AUTHENTICATE))
    (STREQUAL GROUP "*")
    (STREQUAL GROUP "T")
                                                       (PROGN (PRINTOUT PROMPTWINDOW "Checking..")
                                                               (COND
                                                                  ([OR (AND CH.DEFAULT.DOMAIN (STRPOS ":" GROUP) (CH.LOOKUP.OBJECT GROUP))
                                                                    (AND DEFAULTREGISTRY (LISTP (GV.READENTRY GROUP] (PRINTOUT PROMPTWINDOW "..ok" T)
                                                                  (T (EQ 'Y (RESETFORM (TTYDISPLAYSTREAM PROMPTWINDOW)
                                                                                      (ASKUSER NIL NIL " no such
                                                                                              name/group. Add anyway? "]
                                                  (CONS GROUP (LISTP OLD.OPTION)))
                                                 (T OLD.OPTION))))
                                  (REMOVE (AND OLD.OPTION
                                                 (REMOVE (MENU (create MENU
                                                                         TITLE
                                                                                 _ "Remove group "
                                                                         CENTERFLG _ T
                                                                         ITEMS _ OLD.OPTION))
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OLD.OPTION)))
                                  (OR (LISTP X)
                                       OLD.OPTION)))
                       X)))
    (IDLE.SHOW.OPTION "New"])
(IDLE.SHOW.OPTIONS
  [LAMBDA NIL
                                                                           (* bvm%: "16-Oct-85 00:23")
    (FRESHLINE PROMPTWINDOW)
    (for Tail on Idle. Profile by (CDDR Tail) do (IDLE.SHOW.OPTION (CAR TAIL)
                                                               NIL
                                                               (COND
                                                                   ((CDDR TAIL)
", ")
(T "."])
(IDLE.SHOW.OPTION
  [LAMBDA (OPTION STRING SEPR)
                                                                           (* bvm%: "16-Oct-85 00:23")
    (LET ((VALUE (LISTGET IDLE.PROFILE OPTION)))
          (OR SEPR (FRESHLINE PROMPTWINDOW))
          (COND
              (STRING (printout PROMPTWINDOW STRING " ")))
          (OR SEPR (printout PROMPTWINDOW "Idle "))
          (printout PROMPTWINDOW (SELECTQ OPTION
                                          (ALLOWED.LOGINS
                                               "Allowed Logins")
                                          (L-CASE OPTION T))
                  ": "
                  (SELECTQ OPTION
                       ((SAVEVM TIMEOUT)
                             (COND
                                [(AND (SMALLP VALUE)
                                 (GREATERP VALUE 0))
(CONCAT VALUE " minute" (COND
                                                                 ((EQ VALUE 1)
                                                                 (T "s"]
                                (T "never")))
                        (ALLOWED LOGINS
                             (COND
                                ((LISTP VALUE)
                                 (SUBPAIR '(T'*)
                                         '("<Previous User>" "<Anyone>")
                                         VALUE))
                                (T "Unlocked")))
                        (MKSTRING VALUE)))
          (COND
              (SEPR (printout PROMPTWINDOW SEPR))
              (T (TERPRI PROMPTWINDOW])
(\IDLER
                                                                           ; Edited 28-Sep-2022 09:05 by lmm
  [LAMBDA (FROMTIMEOUT)
                                                                            Edited 22-Sep-2022 15:04 by Imm
                                                                           Edited 29-Jun-88 14:36 by drc:
    ;; This is the main idling loop.
    (RESETLST
         (RESETSAVE NIL '(SETTOPVAL \IDLING NIL))
         (PROG [(START.TIME (ALTO.TO.LISP.DATE \LASTUSERACTION))
                 VMEM.SAVED W SAVEVM.TIMER IDLE.PROCESS NO.ERROR EXIT? INTERRUPTED.STRING IDLING.KEYACTIONS
                 (IDLE.TIMEOUT (LISTGET IDLE.PROFILE 'TIMEOUT))
                 (SAVEVM (LISTGET IDLE.PROFILE 'SAVEVM)) (LOGOUT (LISTGET IDLE.PROFILE 'LOGOUT]
                (COND
                   ((NOT (\OK.TO.IDLE?))
                                                                           ; 'Somebody in password prompt, better not idle
                     (RETURN)))
                (SETQ \IDLE.PASSWORD.SET NIL)
                [ COND
                   ((EQ (LISTGET IDLE.PROFILE 'FORGET)
                    ;; do things like dump cache listings and flush files to servers *before* passwords get smashed
                     (\USEREVENT 'BEFORESAVEVM)
                     (\DEVICEEVENT 'BEFORESAVEVM)
(\DEVICEEVENT 'AFTERDOSAVEVM)
                     (\USEREVENT 'AFTERDOSAVEVM)
                (RESETSAVE NIL (LIST (FUNCTION NOTIFY. EVENT)
                                         \IDLING.OVER))
                                                                           Turn off things like CROCK, LAFITEMAILWATCH, SPACEWINDOW, REMINDERS
                [for X in IDLE.SUSPEND.PROCESS.NAMES bind PROC do
                                                                         (COND
                                                                            ((SETQ PROC (FIND.PROCESS X))
(PROCESS.EVAL PROC '(\IDLE.WAIT)
                                                                           ; So that SETPASSWORD doesn't trigger any activity
                (RESETSAVE \AFTERLOGINFNS NIL)
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[for x in IDLE.RESETVARS do
                                                                ; turn off things like pup-trace, xiptrace and the like
                                     (RESETSAVE (SETTOPVAL (CAR X)
                                                         (EVAL (CADR X)))
                                             (LIST (FUNCTION SETTOPVAL)
                                                    (CAR X)
                                                    (GETTOPVAL (CAR X]
                                                                ; so that mouse buttons will trigger READP
      (COND
         ((EQ (LISTGET IDLE.PROFILE 'FORGET)
               FIRST)
           (SETQ \IDLE.PASSWORD.SET 'CLEAR)
          (SETPASSWORD NIL (USERNAME NIL NIL T)
                  "")))
      (RESETSAVE (TTY.PROCESS (THIS.PROCESS)))
;; Note that IDLE has set up our KEYACTION table (in the add.process) to ignore interrupts and make mouse clicks trigger readp.
      (RESETSAVE (CHANGENAME '\LOGIN.READ 'PROVIDE.PROMPTING.WINDOW '\IDLE.PROMPTING.WINDOW)
              (CHANGENAME \LOGIN.READ \IDLE.PROMPTING.WINDOW PROVIDE.PROMPTING.WINDOW))
      (COND
         ((OR [AND FROMTIMEOUT (NOT (AND (SMALLP IDLE.TIMEOUT)
                                              (\SECONDSCLOCKGREATERP \LASTUSERACTION (TIMES IDLE.TIMEOUT 60]
               (NOT (\OK.TO.IDLE?)))
          ;; Check again if it's ok, since somebody could have fallen into a password prompter between then and now. Anybody who ;; does after this is ok, because the CHANGENAME above is now in effect. Also check timeout again, in case there was a user
          ;; interaction during the BEFORESAVEVM stuff
          (RETURN)))
      (CLEARW PROMPTWINDOW)
      (SETQ W (CREATEW WHOLESCREEN NIL 0 T))
      (RESETSAVE NIL (LIST (FUNCTION CLOSEW)
                             W))
      [RESETSAVE (CURSOR (CURSORCREATE (BITMAPCREATE 0 0]
      (SETQ VMEM.SAVED "Vmem not saved")
      (if (VIDEOCOLOR)
          then (OPENW W)
       else (DSPOPERATION 'ERASE W)
             (DSPTEXTURE BLACKSHADE W)
             (CLEARW W))
      (CL:UNLESS (AND (SMALLP SAVEVM)
                        (> SAVEVM 0))
              (SETQ SAVEVM))
      (CL:UNLESS (AND (SMALLP LOGOUT)
                        (> LOGOUT 0))
             (SETQ LOGOUT))
      (if (AND SAVEVM LOGOUT (IGEQ SAVEVM LOGOUT))
          then ;; if LOGOUT is sooner than SAVEVM
               (SETQ SAVEVM NIL))
      [if (OR SAVEVM LOGOUT)
          then (SETQ SAVEVM.TIMER (SETUPTIMER (ITIMES (OR SAVEVM LOGOUT)
                                                           600001
      (SETQ IDLE.PROCESS (ADD.PROCESS [CONS (LISTGET IDLE.PROFILE 'DISPLAYFN)
                                                  (CONS W (LISTGET IDLE.PROFILE 'DISPLAY.DATA)
                                    'NAME
                                    'IDLE.DISPLAY))
      (RESETSAVE NIL (LIST (FUNCTION DEL.PROCESS)
                             IDLE.PROCESS))
      (BLOCK)
                                                                ; Let the idler get started first
 WAIT.FOR.CHAR
     (COND
         ((NOT (READP T T))
          (BLOCK 250)
                                                                : (\DIRTYBACKGROUND)
           (CL:WHEN (AND SAVEVM.TIMER (TIMEREXPIRED? SAVEVM.TIMER))
               (if SAVEVM
                   then (if (SAVEVM)
                             then ;; restarting after SaVEVM, end idle
                                   (GO EXIT))
                         (SETQ VM.SAVED (CONCAT "VM saved at " (DATE)))
                         (if LOGOUT
                             then (SETQ SAVEVM.TIMER (SETUPTIMER (CL:* (- LOGOUT SAVEVM)
                                   (SETQ SAVEVM))
                 elseif LOGOUT
                                                                ; could do (LOGOUT T) if SAVEVM
                   then (LOGOUT)
                         ;; must be returning later
                         (GO EXIT)))
          [COND
              ((OR (KEYDOWNP 'LSHIFT)
                   (KEYDOWNP 'RSHIFT))
               (AND (PROCESSP IDLE.PROCESS)
                     (SUSPEND.PROCESS IDLE.PROCESS))
               (CLEARW PROMPTWINDOW)
               (PRINTOUT PROMPTWINDOW (USERNAME NIL NIL T)
                         Idle
                       (\IDLE.TIME START.TIME)
```

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{MEDLEY}<sources>IDLER.;1 (\IDLER cont.)
                                T VMEM.SAVED T)
                        (until [NOT (OR (KEYDOWNP 'LSHIFT)
                                         (KEYDOWNP 'RSHIFT]
                           do (BLOCK 250))
                        (AND IDLE.PROCESS (WAKE.PROCESS IDLE.PROCESS]
                    (TTY.PROCESS (THIS.PROCESS))
                                                                       ; Keep us the tty process, even if someone else tries for it
                    (GO WAIT.FOR.CHAR)))
               (COND
                   ((PROCESSP IDLE.PROCESS)
                    (SUSPEND.PROCESS IDLE.PROCESS)))
               [SETQ NO.ERROR (NLSETQ (SETQ EXIT? (\IDLE.EXIT?)]
               (COND
                   ((NOT NO.ERROR)
                    (SETQ INTERRUPTED.STRING "ERROR while checking Allowed Logins")
                    (SETPASSWORD NIL (USERNAME NIL NIL T)
                    (SETQ \IDLE.PASSWORD.SET 'CLEAR))
                   ((NOT EXIT?)
                    [SETQ INTERRUPTED.STRING (CONCAT "Someone tried to use the machine at " (DATE (DATEFORMAT
                                                                                                            NO.DATE1
                    (AND IDLE.PROCESS (WAKE.PROCESS IDLE.PROCESS))
                    (CLEARBUF T)
                    (GO WAIT.FOR.CHAR)))
          EXIT
                (CLOSEW W)
               (FRESHLINE PROMPTWINDOW)
               (AND INTERRUPTED.STRING (PRINTOUT PROMPTWINDOW INTERRUPTED.STRING T)) (PRINTOUT PROMPTWINDOW "Idle time " (\IDLE.TIME START.TIME))
         :; should be unnecessary (see RESETSAVE above)
               (NOTIFY.EVENT \IDLING.OVER)))
    (COND
       (\IDLE.PASSWORD.SET
                                                                        ; Notify anyone who cares about login change, since we
                                                                        ; suppressed it earlier
               (MAPC \AFTERLOGINFNS (FUNCTION APPLY*])
∖IDLE.WAIT
  [LAMBDA NIL
    (AWAIT.EVENT \IDLING.OVER)
    (while \IDLING do (BLOCK 500])
(\OK.TO.IDLE?
                                                                        (* bvm%: " 4-Dec-85 15:05")
  [LAMBDA NIL
    (RESETLST
        (OBTAIN.MONITORLOCK \GETPASSWORD.LOCK T T))])
(\IDLE.TIME
  [LAMBDA (START.TIME)
                                                                        (* bvm%: "15-Oct-85 23:35")
    (LET [(GONE (IDIFFERENCE (IDATE)
                         START. TIME))
           (ONEDAY (CONSTANT (IDIFFERENCE (IDATE "2-Jan-80 00:00:00")
                                       (IDATE "1-Jan-80 00:00:00"]
          (COND
             ((ILESSP GONE ONEDAY)
                                                                       ; Express in hours:min:sec
              (GDATE (IPLUS (IDATE "1-Jan-80 00:00:00")
                             GONE)
                      (DATEFORMAT NO.DATE)))
             (T (CONCAT (SETQ GONE (QUOTIENT GONE ONEDAY))
                        (COND
                           ((GREATERP GONE 1)
"s.")
(T "."])
(\IDLE.OUT
                                                                        ; Edited 4-Oct-2022 16:41 by Imm
  [LAMBDA NIL
                                                                        (* bvm%: "16-Sep-85 18:34")
    (CL:WHEN (NOT \IDLING)
        (NOTIFY.EVENT \IDLING.OVER)
        (LET [(TIMEOUT (LISTGET IDLE.PROFILE 'TIMEOUT]
              (AND (SMALLP TIMEOUT)
                    (GREATERP TIMEOUT 0)
                      SECONDSCLOCKGREATERP \LASTUSERACTION (TIMES TIMEOUT 60))
                    (IDLE T))))])
(\IDLE.EXIT?
                                                                        ; Edited 22-Nov-88 15:25 by drc:
  [LAMBDA NIL
    (RESETLST
        (RESETSAVE (TTYDISPLAYSTREAM PROMPTWINDOW))
         (CLEARBUF T)
        [PROG ((GROUP (LISTGET IDLE.PROFILE 'ALLOWED.LOGINS))
                (AUTHTYPE (LISTGET IDLE.PROFILE 'AUTHENTICATE))
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(TIMEOUT (LISTGET IDLE.PROFILE 'LOGIN.TIMEOUT))
                 (NAME (USERNAME NIL NIL T))
                 PWD WATCHER)
                (COND
                   ((NLISTP GROUP)
                                                                          ; no login check at all
                     (COND
                        ((LISTGET IDLE.PROFILE 'FORGET)
                         (SETPASSWORD NIL NAME "")))
                     (RETURN T)))
                (COND
                   ((EQ 0 (NCHARS NAME))
                                                                          ; Not logged in, so don't complain about anything
                     (RETURN T)))
                (OBTAIN.MONITORLOCK \GETPASSWORD.LOCK NIL T)
                                                                          ; Lock out anyone else trying to prompt for a password
                (CLEARW PROMPTWINDOW)
                                                                          ; prompt for password, maybe new username
                [SETQ PWD (COND
                               ((AND (EQUAL GROUP '(T))
                                                                          ; Only previous user allowed to login
                                     NAME)
                                (PROMPTFORWORD (CONCAT NAME " password:")
                                        NIL NIL NIL '* TIMEOUT))
                               (T [if TIMEOUT
                                                                          ; spawn process to watch for login. Done this way rather than
                                      then
                                                                          timeout in \LOGIN.READ because we want to blow away
                                                                          timed-out password prompt, too.
                                            (RESETSAVE NIL (LIST 'DEL. PROCESS
                                                                    (SETQ WATCHER
                                                                                    `(\IDLE.PROMPT.WATCHER
                                                                      (ADD.PROCESS
                                                                                      ', (THIS.PROCESS)
                                                                                       TIMEOUT
                                   (PROG1 [CDR (SETQ NAME (CAR (NLSETQ (\LOGIN.READ NIL NAME NIL NIL 'NS]
                                       (SETQ NAME (MKSTRING (CAR NAME)))
                                       (if WATCHER
                                           then (DEL.PROCESS WATCHER)))]
                                                                          ; decide whether NAME and PWD are in GROUP
                (RETURN (COND
                             ((NULL PWD)
                             NIL)
                                   (OR (MEMB T GROUP)
(MEMB '* GROUP))
                             ([AND
                                    (\IDLE.IS.PREVIOUS NAME PWD (EQUAL GROUP '(T)
                             ;; Previous user is allowed to login. Also, if only allowed login is old user, but old password is unknown, allow it
                             ((\IDLE.ISMEMBER GROUP NAME PWD)
                              (COND
                                 ((OR (NULL AUTHTYPE)
                                       (\IDLE.AUTHENTICATE NAME PWD AUTHTYPE (NOT (MEMB T GROUP))
                                              PROMPTWINDOW))
                                   (SETPASSWORD NIL NAME PWD)
                                  (SETQ \IDLE.PASSWORD.SET T)
                                  T)
                                 (T (DISMISS 5000)
                                                                          : Let the error message be visible
                                    NIL)))
                             (T (PRINTOUT PROMPTWINDOW "login incorrect" T)
                                                                         ; Let the error message be visible
                                (DISMISS 5000)
                                NIL])])
(\IDLE.PROMPT.WATCHER
                                                                          ; Edited 3-Apr-87 13:56 by bvm:
  [LAMBDA (PROC TIMEOUT)
    ;; Aborts proc if it goes for longer than TIMEOUT (in seconds) with no user action
    (do [DISMISS (TIMES 1000 (IMAX 1 (- TIMEOUT (- (\DAYTIMEO (create FIXP))
                                                          \LASTUSERACTION]
                                                                          ; Dismiss until expected timeout
         (if (\SECONDSCLOCKGREATERP \LASTUSERACTION TIMEOUT)
              then (PROCESS.EVAL PROC '(\IDLE.EXIT.ABORT))
                   (RETURN])
(\IDLE.EXIT.ABORT
                                                                         ; Edited 3-Apr-87 13:37 by bvm:
  [LAMBDA NIL
    ;; Abort process if still sitting under login reader
     (if (RELSTK (STKPOS '\LOGIN.READ))
         then (ERROR!])
(\IDLE.PROMPTING.WINDOW
                                                                          (* bvm%: " 5-Nov-85 23:10")
  [LAMBDA (TITLE)
;;; Replaces PROVIDE.PROMPTING.WINDOW in \LOGIN.READ while idle is on
     (RESETSAVE (INTERRUPTCHAR 5 'ERROR))
                                                                          ; Allow ^E to abort prompt
     (COND
        ((NEQ (PROCESSPROP (THIS.PROCESS)
                       'NAME)
              'IDLE)
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T])

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[LAMBDA (NAME PWD TYPE IFALLDOWN OUTPUT)
                                                                           ; Edited 10-Jun-88 02:30 by drc:
    (LET ((NS (AND (NEQ TYPE 'GV)
                      (NEQ TYPE 'UNIX)
                      CH.DEFAULT.DOMAIN))
           (GV (AND (NEQ TYPE 'NS)
                      (NEQ TYPE 'UNIX)
                     DEFAULTREGISTRY))
                       (NEQ TYPE 'NS)
(NEQ TYPE 'GV)
           [UNIX (AND
                        (EQ (MACHINETYPE)
                             'MAIKOl
           CODE)
          (printout OUTPUT T "Authenticating " NAME " ... ")
          [COND
             ((EQ TYPE T)
              ;; use heuristics to determine authentication type
               (COND
                  ((STRPOS ":" NAME)
                                                                           : probably wanted NS login
                   (SETQ GV)
(SETO UNIX)
                    (SETQ NS T))
                  ((AND (STRPOS "." NAME)
                         DEFAULTREGISTRY)
                                                                           ; probably wanted GV login
                    (SETQ UNIX)
                    (SETQ NS)
                    (SETQ GV T]
          [OR (AND UNIX (EQ (MACHINETYPE) 'MAIKO)
                     (COND
                        ((SUBRCALL CHECKBCPLPASSWORD NAME PWD)
                         (SETQ CODE T))
                        (T (SETQ CODE 'Bad% login)
                           NIL)))
               [AND NS (EQ T (SETQ CODE (NS.AUTHENTICATE (NS.MAKE.SIMPLE.CREDENTIALS (CONS NAME
                                                                                                        (\ENCRYPT.PWD
                                                                                                          (CONCAT PWD]
               (AND GV (SETQ CODE (GV.AUTHENTICATE NAME (\ENCRYPT.PWD (CONCAT PWD)
          (SELECTQ CODE
               (AllDown (printout OUTPUT "All authentication servers down" T)
                          IFALLDOWN)
                ((T NIL)
                     (printout OUTPUT "ok.")
                    T)
                ((SimpleKeyDoesNotExist CredentialsInvalid BadRName BadPassword Bad% login)
                     (printout OUTPUT CODE)
                    NIL)
                (PROGN (printout OUTPUT T "Odd response from authenticator: " CODE)
                       T])
(\IDLERKEYACTION
                                                                           ; Edited 23-Mar-92 13:20 by ids
  [LAMBDA NII.
    ;; Constructs a KEYACTION table for the IDLER process, by taking the (machine-dependent) original table and smashing the mouse buttons so ;; that they transmit characters that cause the idler to wake up, and disabling the interrupts
    (LET ((TABLE (KEYACTIONTABLE IDLE.KEYACTIONTABLE)))
          ;; Construct a new one each time, on the theory that this will get the most recent notion of the original keyactions on the machine most
          ;; recently migrated to.
          (KEYACTION 'LEFT '((18 18)
                                18 18)
                  TABLE)
          (KEYACTION 'MIDDLE '((18 18)
                                  18 18)
                  TABLE)
          (KEYACTION 'RIGHT '((18 18)
                                 18 18)
                  TABLE)
          (replace (KEYACTION INTERRUPTLIST) of TABLE with NIL)
                                                                           ; Turn off the interrupts
          TABLE])
(RPAQ? IDLE.PROFILE '(TIMEOUT 0))
(RPAQ? \IDLING )
(RPAQ? CH.DEFAULT.DOMAIN )
(RPAQ? DEFAULTREGISTRY)
(RPAQ? IDLE.KEYACTIONTABLE )
(ADDTOVAR SYSTEMINITVARS (IDLE.PROFILE ALLOWED.LOGINS NIL FORGET NIL TIMEOUT 0 DISPLAYFN IDLE.RANDOM SAVEVM 5
                                      LOGOUT 5))
```

```
{MEDLEY}<sources>IDLER.;1
```

```
(ADDTOVAR IDLE.SUSPEND.PROCESS.NAMES MOUSE)
(ADDTOVAR IDLE.RESETVARS (PUPTRACEFLG NIL)
                               (XIPTRACEFLG NIL))
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS IDLE.PROFILE \IDLING \LASTUSERACTION IDLE.RESETVARS IDLE.SUSPEND.PROCESS.NAMES CH.DEFAULT.DOMAIN
        DEFAULTREGISTRY \AFTERLOGINFNS SAVINGCURSOR \VMEM.INHIBIT.WRITE \IDLE.PASSWORD.SET)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(LOCALVARS . T)
(DECLARE%: DONTEVAL@LOAD DOCOPY
(FONTCREATE 'TIMESROMAND 36)
(ADDTOVAR BACKGROUNDFNS \IDLE.OUT)
(ADDTOVAR BackgroundMenuCommands
            [Idle '(IDLE)
                   "Enter Idle mode"
                    (SUBITEMS ("Show Profile" '(IDLE.SHOW.OPTIONS)
                            "Print current idle options in prompt window")
("Set Timeout" '(IDLE.SET.OPTION 'TIMEOUT)
                                     "Set how long before idling started"
                                     (SUBITEMS ("Never" (IDLE.SET.OPTION 'TIMEOUT 0)

"Never spontaneously enter idle mode")))
                            ("Choose Display" '(IDLE.SET.OPTION 'DISPLAYFN)
                                    "Choose idle display")
                            ("Forget" '(IDLE.SHOW.OPTION 'FORGET)
                                    "Erase password when leaving idle mode?" (SUBITEMS ("Do" '(IDLE.SET.OPTION 'FORGET T)
                                                       "Erase password upon exiting idle mode")
                                             ("Don't" '(IDLE.SET.OPTION 'FORGET NIL)
                            "Retain password through idle mode (unless someone logs in)")))
["Allowed Logins" '(IDLE.SHOW.OPTION 'ALLOWED.LOGINS)
                                     "Who can exit idle mode"
                                     (SUBITEMS ("Unlocked" '(IDLE.SET.OPTION 'ALLOWED.LOGINS 'UNLOCKED)
                                             "No login required to exit idle mode")
("Locked" '(IDLE.SET.OPTION 'ALLOWED.LOGINS '(T))
                                             "Only the current user may exit idle mode")
("Any Login" '(IDLE.SET.OPTION 'ALLOWED.LOGINS '(*))
                                             "Any user may exit, but require login")
("Group" '(IDLE.SET.OPTION 'ALLOWED.LOGINS 'ADD)
                                                      "Only allow specific users and/or groups to exit"
(SUBITEMS ("Include Previous User" '(IDLE.SET.OPTION
                                                                                                          'ALLOWED.LOGINS T)
                                                              "If current user exits, check old password" ("Add Member" '(IDLE.SET.OPTION 'ALLOWED.LOGINS 'ADD)
                                                                                                       check old password")
                                                              "Add a group or username")
("Remove Member" '(IDLE.SET.OPTION 'ALLOWED.LOGINS
                                                                                             'REMOVE)
                                                                       "Remove a group or username"]
                            ("Authenticate" '(IDLE.SHOW.OPTION 'AUTHENTICATE)
                                     "Authenticate user upon exiting idle mode?"
(SUBITEMS ("Do" '(IDLE.SET.OPTION 'AUTHENTICATE T)
                                             "User will be authenticated upon exiting idle mode")
("Unix" '(IDLE.SET.OPTION 'AUTHENTICATE 'UNIX)
                                                     "User will be authenticated in Unix upon exiting idle mode")
                                             ("NS" '(IDLE.SET.OPTION 'AUTHENTICATE 'NS)
                                                    "User will be authenticated in XNS upon exiting idle mode")
                                             ("GV" '(IDLE.SET.OPTION 'AUTHENTICATE 'GV)
                                                    "User will be authenticated in Grapevine upon exiting idle mode")
                                             ("Don't" '(IDLE.SET.OPTION 'AUTHENTICATE NIL)
                                                     "Accept any password--no authentication check"])
(RPAQQ BackgroundMenu NIL)
(RPAQ \IDLING.OVER (CREATE.EVENT '\IDLING.OVER))
(\DAYTIME0 \LASTUSERACTION)
;; Default idle display
(DEFINEQ
(IDLE.BOUNCING.BOX
  [LAMBDA (WINDOW BOX WAIT)
                                                                               ; Edited 3-Sep-87 18:55 by jds
    ;; Bounce a window around the screen.
     (OR WAIT (SETQ WAIT 1000))
     (OR BOX (SETQ BOX IDLE.BOUNCING.BOX))
```

```
(RESETLST
        [LET ((MAXX (WINDOWPROP WINDOW 'WIDTH))
               (MAXY (WINDOWPROP WINDOW 'HEIGHT))
               ORIGBOX X Y BITMAP)
              [for TAIL on [SETQ BOX (COND
                                          ((LISTP BOX)
                                                                      ; don't want to trash user's box
                                          (COPY BOX))
                                          (T (LIST BOX)
                 unless (WINDOWP (CAR TAIL)) do
                                                                      ; Precompute everything but windows
                                                  (RPLACA TAIL (IDLE.BITMAP NIL (CAR TAIL)
              (SETQ ORIGBOX BOX)
              (while T do (SETQ BITMAP (IDLE.BITMAP BITMAP (CAR BOX)))
                          (SETQ BOX (OR (CDR BOX)
                                         ORIGBOX))
                                                                      : rotate it
                          [SETQ X (RAND (IDIFFERENCE MAXX (BITMAPWIDTH BITMAP]
                          [SETQ Y (RAND (IDIFFERENCE MAXY (BITMAPHEIGHT BITMAP] (BITBLT BITMAP 0 0 WINDOW X Y NIL NIL NIL 'INVERT)
                          (BLOCK WAIT)
                          (BITBLT BITMAP 0 0 WINDOW X Y NIL NIL NIL 'INVERT]) ])
(IDLE.BITMAP
  [LAMBDA (BITMAP BOX)
                                                                       ; Edited 16-Sep-2022 22:33 by larry
                                                                      (* lmm "18-Jan-86 03:01")
    (COND
       ((BITMAPP BOX)
        BOX)
       ((WINDOWP BOX)
        (LET* ((REGION (WINDOWPROP BOX 'REGION))
                (WIDTH (fetch (REGION WIDTH) of REGION))
                (HEIGHT (fetch (REGION HEIGHT) of REGION)))
               (OR (AND (BITMAPP BITMAP)
                         (EQ (BITMAPWIDTH BITMAP)
                            WIDTH)
                         (EQ (BITMAPHEIGHT BITMAP)
                             HEIGHT))
                   (SETQ BITMAP (BITMAPCREATE WIDTH HEIGHT)))
               (TOTOPW BOX)
               (BITBLT (SCREENBITMAP)
                       (fetch (REGION LEFT) of REGION)
                       (fetch (REGION BOTTOM) of REGION)
                      BITMAP)
              BITMAP))
       [(LISTP BOX)
        (OR (BITMAPP (CAR BOX))
             (CAR (RPLACA BOX (IDLE.BITMAP NIL (CAR BOX)
       (T (LET ((FONT (OR (FONTCREATE 'TIMESROMAND 36 NIL NIL NIL T)
                                                                      ; Shouldn't happen unless somebody flushed TIMESROMAND
                            (PROGN
                                                                       36 -- don't want to break
                                    (FONTCREATE 'HELVETICA 12 NIL NIL T))
                            DEFAULTFONT))
                 DSP)
                (COND
                   ((NOT (AND (OR (STRINGP BOX)
                                    (LITATOM BOX))
                               (NEQ (NCHARS BOX)
                                    0)))
                    (SETQ BOX "Interlisp.org")))
                (SETQ BITMAP (BITMAPCREATE (STRINGWIDTH BOX FONT) (FONTHEIGHT FONT)))
                (SETQ DSP (DSPCREATE BITMAP))
                (DSPFONT FONT DSP)
                (MOVETO 0 (DIFFERENCE (FONTHEIGHT FONT)
                                  (FONTASCENT FONT))
                       DSP)
                (PRIN3 BOX DSP)
                BITMAP1)
(IDLE.RANDOM
  [LAMBDA (W)
                                                                      ; Edited 28-Sep-2022 19:46 by Imm
    (LET ([N (IF (BOUNDP 'LAST.IDLE.FUNCTION)
                  THEN [IF (IGREATERP (SETQ LAST.IDLE.FUNCTION (SUB1 LAST.IDLE.FUNCTION))
                            THEN LAST.IDLE.FUNCTION
                          ELSE (SETQ LAST.IDLE.FUNCTION (SUB1 (LENGTH IDLE.FUNCTIONS)
                        (SETQ LAST.IDLE.FUNCTION)
                ELSE (RAND 1 (SUB1 (LENGTH IDLE.FUNCTIONS)
          CHOICE)
         (for FN in IDLE.FUNCTIONS when (NEQ 'Random (CAR FN))
            do (if (< (SETQ N (SUB1 N))</pre>
                      1)
                    then (PROMPTPRINT "Idle display " (CAR FN))
                          (DISMISS 1000)
                          (RETURN (APPLY* (EVAL (CADR FN))
                                         W])
```

{MEDLEY}<sources>IDLER.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:54 --

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