```
(RPAQQ AUTOTESTCOMS
      [(FILES ATTACHEDWINDOW ICONW)
       [VARS [ATMENUITEMS '((TEST TEST "Tests the selected files; middle button to also redirect output.")
                            (ABORT ABORT "Aborts testing of the selected files.")
                            (PAUSE PAUSE "Temporarily pauses in the testing of selected files.")
                            (RESUME RESUME "Resumes PAUSEd testing.")
                            (DIRECTORY DIRECTORY "Does a directory of files in order to create a new set of
                                   tests to select.")
                            (PRINT PRINT "Prints the results of testing of the selected files; middle button to
                                   also select printing destination.")
                            (SUMMARIZE SUMMARIZE "Prints the results of testing of failed tests from the
                                   selected files.")
                            (QUIT QUIT "Quits testing.]
              (ATNOARGITEMS '(DIRECTORY QUIT))
              (ATBUSYOKITEMS '(ABORT PAUSE RESUME QUIT]
       (INITVARS (ATICONFONT (FONTCREATE 'HELVETICA 8 'MRR))
              (DEFAULTAUTOTESTFONT (FONTCREATE 'GACHA 10 'MRR))
              (ATTIMEWINDOWFONT (FONTCREATE 'GACHA 8 'MRR))
              (ATPROMPTFONT (FONTCREATE 'GACHA 8 'MRR))
              (AUTOTESTMENUFONT (FONTCREATE 'HELVETICA 10 'MRR))
              (ATBORDERWIDTH 2)
              [ATINFOLISTINGWIDTHS '(RESULT (Result . 70)
                                             NAME
                                             (Name . 180)
                                             FILE
                                             (File . 1800]
              (ATINFOSHADE 16920)
              (ATITEMUNSELECTEDSHADE 0)
              (ATITEMSELECTEDSHADE 43605))
       (BITMAPS ATICON ATICONMASK)
       (CURSORS AT.RIGHTARROWCURSOR)
       (* * Main autotester fns)
       (FNS AT AUTOTESTER SINGLE-TEST TEST-MESSAGE)
       (COMS (* * commands and major subfunctions)
              (FNS AT.TESTCOMMAND AT.ABORTCOMMAND AT.PAUSECOMMAND AT.RESUMECOMMAND AT.DIRECTORYCOMMAND
                    AT.PRINTCOMMAND AT.QUITCOMMAND)
              (FNS AT.COMMANDDISPATCH AT.SELECT AT.UPDATEAUTOTESTERITEMS AT.SINGLE-TEST))
       (* * lower-level window mungers)
       (FNS AT.MAKERIGIDWINDOW AT.CLRPROMPTW AT.PRINTHEADINGSON AT.PRINTANDGETREGION AT.MAKEHEADINGWINDOW
              AT.MAKECOUNTERWINDOW AT.MAKETIMEWINDOW AT.PROMPTWPRINT AT.PROMPTWTERPRI AT.SELECTFILE
              AT.UNSELECTFILE AT.CHANGECOMPLETEMARK AT.SHOW.NUMCOMPLETED AT.SHOW.NUMFILES AT.SHOW.NUMSELECTED
              AT.SHOW.NUMSUCCESSFUL AT.SHOW.ENDTIME AT.SHOW.STARTTIME AT.SHOW.TESTID AT.SHOW.TESTSUITE)
       (* * window functions)
       (FNS AT.HEADINGWREDISPLAYFN AT.REPAINT.COUNTERW AT.REPAINT.TIMEW AT.ICONFN AT.BUTTONEVENTFN
              AT.CURSORMOVEDFN AT.CURSOROUTFN AT.REPAINTFN AT.SCROLLFN AT.RIGHTBUTTONFN AT.MENU.WHENSELECTEDFN
              AT.CLOSEFN AT.HARDCOPYFN)
       (* * odds and ends)
       (FNS AT.FETCHFILENAME AT.STARTOFNAME AT.STARTUP AT.CREATEPRINTSPEC AT.FINDTESTBUCKET AT.PROMPTFORINPUT
              AT.GETALLFILEINFO AT.GETPRINTDESTINATION AT.\ItemWithTag)
       (DECLARE%: EVAL@COMPILE DONTCOPY (CONSTANTS (AT.MARKXPOS 16))
              (RECORDS ATPRINTSPEC TESTBUCKET))
       (ADDVARS (BackgroundMenuCommands ("AutomatedTester" (AT)
                                        "Opens an automated tester window; prompts for directory")))
       (VARS (BackgroundMenu))
       (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA AT)
                                                        (NLAML)
                                                        (LAMA AT.PROMPTWPRINT])

(FILESLOAD ATTACHEDWINDOW ICONW)

(RPAQQ ATMENUITEMS
      ((TEST TEST "Tests the selected files; middle button to also redirect output.")
       (ABORT ABORT "Aborts testing of the selected files.")
       (PAUSE PAUSE "Temporarily pauses in the testing of selected files.")
       (RESUME RESUME "Resumes PAUSEd testing.")
       (DIRECTORY DIRECTORY "Does a directory of files in order to create a new set of tests to select.")
       (PRINT PRINT "Prints the results of testing of the selected files; middle button to also select printing
              destination.")
       (SUMMARIZE SUMMARIZE "Prints the results of testing of failed tests from the selected files.")
       (QUIT QUIT "Quits testing.")))
```

(RPAQQ **ATNOARGITEMS** (DIRECTORY QUIT))

(RPAQQ **ATBUSYOKITEMS** (ABORT PAUSE RESUME QUIT))

(RPAQ? **ATICONFONT** (FONTCREATE 'HELVETICA 8 'MRR))

(RPAQ? **DEFAULTAUTOTESTFONT** (FONTCREATE 'GACHA 10 'MRR))

(RPAQ? **ATTIMEWINDOWFONT** (FONTCREATE 'GACHA 8 'MRR))

(RPAQ? **ATPROMPTFONT** (FONTCREATE 'GACHA 8 'MRR))

(RPAQ? **AUTOTESTMENUFONT** (FONTCREATE 'HELVETICA 10 'MRR))

(RPAQ? **ATBORDERWIDTH** 2)

(RPAQ? **ATINFOLISTINGWIDTHS** '(RESULT (Result . 70)
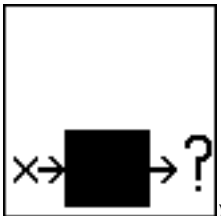   NAME
                                       (Name . 180)
                                       FILE
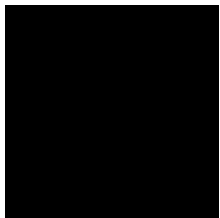   (File . 1800)))

(RPAQ? **ATINFOSHADE** 16920)

(RPAQ? **ATITEMUNSELECTEDSHADE** 0)

(RPAQ? **ATITEMSELECTEDSHADE** 43605)

(RPAQQ **ATICON**

)

(RPAQQ **ATICONMASK**

)

(RPAQ **AT.RIGHTARROWCURSOR** (CURSORCREATE '
                                    'NIL 7 9))

        (* * Main autotester fns)

(DEFINEQ

(**AT**
  [NLAMBDA DIR   (* scv "23-May-85 11:28")
    (**AUTOTESTER** (OR (CAR (NLAMBDA.ARGS DIR))
                    (PROMPTFORWORD "Test directory pattern?" NIL NIL PROMPTWINDOW])

(**AUTOTESTER**
  [LAMBDA (FILESPEC)   ; Edited 17-Dec-2020 16:54 by larry
                                                             (* scv "15-Jul-85 15:36")
    (PROG ((PROMPTWHEIGHT 3)
            AUTOTESTWINDOW COMMANDMENUWINDOW COMMANDMENU DIRSTART HEADINGW COUNTERW TIMEW TTYDS)
          (COND
            ((NULL FILESPEC)
              (RETURN)))
          (SETQ FILESPEC (DIRECTORY.FILL.PATTERN FILESPEC "DFASL" ""))
          (SETQ COMMANDMENU (**create** MENU
                                     MENUFONT _ AUTOTESTMENUFONT
                                     ITEMS _ ATMENUITEMS
                                     MENUROWS _ 1
                                     CENTERFLG _ T
                                     WHENSELECTEDFN _ (FUNCTION AT.MENU.WHENSELECTEDFN)))
          (SETQ AUTOTESTWINDOW (CREATEW (GETREGION (WIDTHIFWINDOW (**fetch** IMAGEWIDTH **of** COMMANDMENU)
                                                          (**fetch** MENUOUTLINESIZE **of** COMMANDMENU))
                                             (HEIGHTIFWINDOW (ITIMES 4 (FONTPROP DEFAULTAUTOTESTFONT
                                                                                 'HEIGHT))
                                                       NIL ATBORDERWIDTH))
                                       NIL ATBORDERWIDTH))
```

```
          (SETQ HEADINGW (AT.MAKEHEADINGWINDOW (GETWINDOWPROP AUTOTESTWINDOW 'WIDTH)
                                 DEFAULTAUTOTESTFONT ATBORDERWIDTH "Automated Tester Window"))
          (SETQ COUNTERW (AT.MAKECOUNTERWINDOW (HEIGHTIFWINDOW (FONTPROP DEFAULTAUTOTESTFONT 'HEIGHT))
                                 (WINDOWPROP HEADINGW 'WIDTH)
                                 AUTOTESTWINDOW))
          (SETQ TIMEW (AT.MAKETIMEWINDOW (HEIGHTIFWINDOW (FONTPROP ATTIMEWINDOWFONT 'HEIGHT))
                                 (WINDOWPROP HEADINGW 'WIDTH)
                                 AUTOTESTWINDOW))
          (PUTWINDOWPROP AUTOTESTWINDOW 'HEADINGWINDOW HEADINGW)
          (ATTACHWINDOW HEADINGW AUTOTESTWINDOW 'TOP)
          (PUTWINDOWPROP AUTOTESTWINDOW 'COUNTERWINDOW COUNTERW)
          (ATTACHWINDOW COUNTERW HEADINGW 'TOP)
          (PUTWINDOWPROP AUTOTESTWINDOW 'TIMEWINDOW TIMEW)
          (ATTACHWINDOW TIMEW COUNTERW 'TOP)
          (SETQ COMMANDMENUWINDOW (ATTACHMENU COMMANDMENU AUTOTESTWINDOW 'TOP))
          (PUTWINDOWPROP AUTOTESTWINDOW 'SCROLLFN (FUNCTION AT.SCROLLFN))
          (AT.MAKERIGIDWINDOW (GETPROMPTWINDOW AUTOTESTWINDOW PROMPTWHEIGHT ATPROMPTFONT))
          (DSPFONT DEFAULTAUTOTESTFONT AUTOTESTWINDOW)
          (PUTWINDOWPROP AUTOTESTWINDOW 'ICONFN (FUNCTION AT.ICONFN))
          (PUTWINDOWPROP AUTOTESTWINDOW 'ICONTITLE FILESPEC)
          (PUTWINDOWPROP AUTOTESTWINDOW 'NUMCOMPLETED 0)
          (PUTWINDOWPROP AUTOTESTWINDOW 'NUMSUCCESSFUL 0)
          (PUTWINDOWPROP AUTOTESTWINDOW 'ORIGX (DSPXPOSITION NIL AUTOTESTWINDOW))
          (PUTWINDOWPROP AUTOTESTWINDOW 'ORIGY (DSPYPOSITION NIL AUTOTESTWINDOW))
          (PUTWINDOWPROP AUTOTESTWINDOW 'DIRWIDTH (GETWINDOWPROP AUTOTESTWINDOW 'WIDTH))
          (PUTWINDOWPROP AUTOTESTWINDOW 'BUTTONEVENTFN (FUNCTION AT.BUTTONEVENTFN))
          (PUTWINDOWPROP AUTOTESTWINDOW 'RIGHTBUTTONFN (FUNCTION AT.RIGHTBUTTONFN))
          (PUTWINDOWPROP AUTOTESTWINDOW 'REPAINTFN (FUNCTION AT.REPAINTFN))
          (PUTWINDOWPROP AUTOTESTWINDOW 'CURSORMOVEDFN (FUNCTION AT.CURSORMOVEDFN))
          (PUTWINDOWPROP AUTOTESTWINDOW 'CURSOROUTFN (FUNCTION AT.CURSOROUTFN))
          (WINDOWADDPROP AUTOTESTWINDOW 'RESHAPEFN (FUNCTION RESHAPEBYREPAINTFN))
          (WINDOWADDPROP AUTOTESTWINDOW 'SHRINKFN (FUNCTION AT.CLOSEFN)
                 T)
          (WINDOWADDPROP AUTOTESTWINDOW 'CLOSEFN (FUNCTION AT.CLOSEFN)
                 T)
          (PUTWINDOWPROP AUTOTESTWINDOW 'ITEMSPEC FILESPEC)
          (PUTWINDOWPROP AUTOTESTWINDOW 'HARDCOPYFN 'AT.HARDCOPYFN)
          (WINDOWPROP COMMANDMENUWINDOW 'HARDCOPYFN 'AT.HARDCOPYFN)
          (WINDOWPROP HEADINGW 'HARDCOPYFN 'AT.HARDCOPYFN)
          (WINDOWPROP COUNTERW 'HARDCOPYFN 'AT.HARDCOPYFN)
          (WINDOWPROP TIMEW 'HARDCOPYFN 'AT.HARDCOPYFN)
          (WINDOWPROP (GETPROMPTWINDOW AUTOTESTWINDOW)
                 'HARDCOPYFN
                 'AT.HARDCOPYFN)
          (SETQ TTYDS (WFROMDS (TTYDISPLAYSTREAM)))
          (PUTWINDOWPROP AUTOTESTWINDOW 'ATDISPLAYSTREAM TTYDS)
          (WINDOWPROP TTYDS 'PAGEFULLFN 'NILL)
          (WINDOWPROP TTYDS 'AUTOTESTER AUTOTESTWINDOW)
          (ADD.PROCESS (LIST (FUNCTION AT.STARTUP)
                         AUTOTESTWINDOW COMMANDMENU COMMANDMENUWINDOW)
                 'NAME
                 'AT-Update)
          (RETURN AUTOTESTWINDOW])
```

(**SINGLE-TEST**
```
    [LAMBDA (IDENTIFIER EXPRESSION PREDICATE TIMEOUT)                    (* scv "12-Jul-85 16:22")
      (PROG (MAIN PROC RESULT TESTEND)
            (SETQ MAIN (WINDOWPROP (WFROMDS (TTYDISPLAYSTREAM))
                           'AUTOTESTER))
            (WINDOWPROP MAIN 'TESTRESULT NIL)
            (PUTWINDOWPROP MAIN 'TESTSTART NIL)
            (PUTWINDOWPROP MAIN 'TESTEND NIL)
            [SETQ PROC (ADD.PROCESS (LIST 'AT.SINGLE-TEST (KWOTE IDENTIFIER)
                                     (KWOTE EXPRESSION)
                                     (KWOTE PREDICATE)
                                     (KWOTE TIMEOUT)
                                     (KWOTE (TTYDISPLAYSTREAM))
                                     (KWOTE (OUTPUT)))
                           'NAME
                           (CONCAT 'SINGLE-TEST- IDENTIFIER)
                           'WINDOW
                           (WFROMDS (TTYDISPLAYSTREAM]
            (WHILE (AND [NULL (SETQ RESULT (WINDOWPROP MAIN 'TESTRESULT]
                        (OR (NULL TIMEOUT)
                            [NULL (SETQ TESTEND (WINDOWPROP MAIN 'TESTEND]
                            (LESSP (CLOCK 0)
                                   TESTEND))
                        (PROCESSP PROC))
               DO (DISMISS 50))
            (PUTWINDOWPROP MAIN 'TESTID NIL)
            (AT.SHOW.TESTID MAIN)
            (PUTWINDOWPROP MAIN 'STARTTIME NIL)
            (AT.SHOW.STARTTIME MAIN)
            (PUTWINDOWPROP MAIN 'ENDTIME NIL)
            (AT.SHOW.ENDTIME MAIN)
            (IF (NULL RESULT)
```

```
            THEN (TEST-MESSAGE IDENTIFIER "timed out, timeout" TIMEOUT)
                  (DEL.PROCESS PROC)
                  (RETURN NIL)
             ELSE (RETURN (CAR RESULT)]
```

(TEST-MESSAGE
```
  [LAMBDA (IDENTIFIER TEXT INFO)                                    (* scv " 3-Jul-85 12:07")
    (printout NIL "===> Test " IDENTIFIER ":  " TEXT ":  " INFO T])
```

)

          (* * commands and major subfunctions)

```
(DEFINEQ
```

(AT.TESTCOMMAND
```
  [LAMBDA (FILEENTRY KEY WINDOW STDOUT)                             (* scv "12-Jul-85 14:21")
    (PROG (FILENAME NUM ITEMMAP RESULT)
          (BLOCK)
          (OUTPUT STDOUT)
          [WINDOWPROP WINDOW 'TESTSUITE (fetch (ATPRINTSPEC LABEL) of (CADR (fetch (TESTBUCKET ITEM) of FILEENTRY]
          (AT.SHOW.TESTSUITE WINDOW)
          (SETQ FILENAME (fetch (TESTBUCKET FILENAME) of FILEENTRY))
          (SETQ NUM (fetch (TESTBUCKET %#) of FILEENTRY))
          (SETQ ITEMMAP (WINDOWPROP WINDOW 'AUTOTESTERITEMMAP))
          (LISPXEVAL (LIST 'LOAD (LIST 'QUOTE FILENAME)))
          [SETQ RESULT (LISPXEVAL (LIST (FILENAMEFIELD FILENAME 'NAME)
                                        (LIST 'QUOTE (PACKFILENAME 'NAME "" 'EXTENSION "" 'VERSION ""
                                                      'BODY FILENAME]
          (replace (TESTBUCKET COMPLETED?) of FILEENTRY with T)
          [WINDOWPROP WINDOW 'NUMCOMPLETED (ADD1 (WINDOWPROP WINDOW 'NUMCOMPLETED]
          (replace (TESTBUCKET SUCCESSFUL?) of FILEENTRY with RESULT)
          [if RESULT
              then (WINDOWPROP WINDOW 'NUMSUCCESSFUL (ADD1 (WINDOWPROP WINDOW 'NUMSUCCESSFUL]
          (AT.SHOW.NUMCOMPLETED WINDOW)
          (AT.SHOW.NUMSUCCESSFUL WINDOW)
          [replace (TESTBUCKET ITEM) of FILEENTRY with (CONS [create ATPRINTSPEC
                                                               LABEL _ (if RESULT
                                                                           then 'pass
                                                                           else 'FAIL)
                                                               WIDTH _ (fetch (ATPRINTSPEC WIDTH)
                                                                          of (LISTGET ATINFOLISTINGWIDTHS
                                                                                'RESULT]
                                                             (CDR (fetch (TESTBUCKET ITEM) of FILEENTRY]
          (SETQ ITEMMAP (for I in ITEMMAP collect (if (EQP NUM (fetch (TESTBUCKET %#) of I))
                                                       then FILEENTRY
                                                       else I)))
          (WINDOWPROP WINDOW 'AUTOTESTERITEMMAP ITEMMAP)
          (UNDOLISPX1 (LISPXFIND LISPXHISTORY (LIST (CADR LISPXHISTORY))
                        'ENTRY NIL))
          (UNDOLISPX1 (LISPXFIND LISPXHISTORY (LIST (SUB1 (CADR LISPXHISTORY)))
                        'ENTRY NIL))
          (REDISPLAYW WINDOW (fetch (TESTBUCKET ITEMREGION) of FILEENTRY))
          (WINDOWPROP WINDOW 'TESTSUITE NIL)
          (AT.SHOW.TESTSUITE WINDOW)
          (OUTPUT T])
```

(AT.ABORTCOMMAND
```
  [LAMBDA (KEY WINDOW)                                              (* scv "12-Jul-85 16:19")
    (PROG (PAUSED? PAUSE)
          (SETQ PAUSED? (GETWINDOWPROP WINDOW 'PAUSESTART))
          (if (NOT PAUSED?)
              then (SETQ PAUSE (CLOCK 0))
                   (PUTWINDOWPROP WINDOW 'PAUSESTART PAUSE))
          (if (MOUSECONFIRM "Are you sure?  " "Click left button to ABORT tests, right button to RESUME tests."
                  (GETPROMPTWINDOW (MAINWINDOW WINDOW T)))
              then [PROG (PROC)
                         (SETQ PROC (GETWINDOWPROP WINDOW 'TESTPROCESS))
                         (if PROC
                             then (DEL.PROCESS PROC)
                                  (PUTWINDOWPROP WINDOW 'PAUSESTART NIL)
                           else (AT.CLRPROMPTW WINDOW)
                                (AT.PROMPTWPRINT WINDOW "No tests in process.")
                                (if (NOT PAUSED?)
                                    then (PUTWINDOWPROP WINDOW 'PAUSESTART NIL]
            else (if (NOT PAUSED?)
                     then (PUTWINDOWPROP WINDOW 'PAUSESTART NIL)
                          (if (GETWINDOWPROP WINDOW 'TESTEND)
                              then (PUTWINDOWPROP WINDOW 'ENDTIME (PLUS (GETWINDOWPROP WINDOW 'ENDTIME)
                                                                       (IQUOTIENT (DIFFERENCE (CLOCK 0)
                                                                                     PAUSE)
                                                                          1000)))
                                   (AT.SHOW.ENDTIME (MAINWINDOW WINDOW T))
                                   (PUTWINDOWPROP WINDOW 'TESTEND (PLUS (GETWINDOWPROP WINDOW 'TESTEND)
```

```
                                                                         (DIFFERENCE (CLOCK 0)
                                                                                     PAUSE])
```

(**AT.PAUSECOMMAND**
```
  [LAMBDA (KEY WINDOW)                                          (* scv " 2-Jul-85 15:29")
     (PROG (PROC)
           (SETQ PROC (GETWINDOWPROP WINDOW 'TESTPROCESS))
           (if PROC
               then (SUSPEND.PROCESS PROC)
                    (PUTWINDOWPROP WINDOW 'PAUSESTART (CLOCK 0))
               else (AT.CLRPROMPTW WINDOW)
                    (AT.PROMPTWPRINT WINDOW "No tests in process."])
```

(**AT.RESUMECOMMAND**
```
  [LAMBDA (KEY WINDOW)                                          (* scv "12-Jul-85 16:19")
     (PROG (PROC PAUSE)
           (SETQ PROC (GETWINDOWPROP WINDOW 'TESTPROCESS))
           (if PROC
               then (if (SETQ PAUSE (GETWINDOWPROP WINDOW 'PAUSESTART))
                        then (PUTWINDOWPROP WINDOW 'PAUSESTART NIL)
                             [if (GETWINDOWPROP WINDOW 'TESTEND)
                                 then (PUTWINDOWPROP WINDOW 'ENDTIME (PLUS (GETWINDOWPROP WINDOW 'ENDTIME)
                                                                          (IQUOTIENT (DIFFERENCE (CLOCK 0)
                                                                                                 PAUSE)
                                                                                     1000)))
                                      (AT.SHOW.ENDTIME (MAINWINDOW WINDOW T))
                                      (PUTWINDOWPROP WINDOW 'TESTEND (PLUS (GETWINDOWPROP WINDOW 'TESTEND)
                                                                          (DIFFERENCE (CLOCK 0)
                                                                                      PAUSE]
                             (WAKE.PROCESS PROC)
                        else (AT.CLRPROMPTW WINDOW)
                             (AT.PROMPTWPRINT WINDOW "No tests paused."))
               else (AT.CLRPROMPTW WINDOW)
                    (AT.PROMPTWPRINT WINDOW "No tests in process."])
```

(**AT.DIRECTORYCOMMAND**
```
  [LAMBDA (KEY WINDOW)                                 ; Edited 17-Dec-2020 17:08 by larry
                                                       (* scv "20-Jun-85 12:58")

     (PROG (FILESPEC)
           (AT.CLRPROMPTW WINDOW)
           (if (NULL (SETQ FILESPEC (AT.PROMPTFORINPUT "New test directory pattern?  " (GETWINDOWPROP
                                                                                          WINDOW
                                                                                          'ITEMSPEC)
                                                       WINDOW)))
               then (RETURN))
           (PUTWINDOWPROP WINDOW 'ICONTITLE FILESPEC)
           (PUTWINDOWPROP WINDOW 'ITEMSPEC (DIRECTORY.FILL.PATTERN FILESPEC "DFASL" ""))
           (RETURN T])
```

(**AT.PRINTCOMMAND**
```
  [LAMBDA (FILEENTRY KEY WINDOW IMAGESTREAM)                    (* scv " 2-Jul-85 10:36")
     (PROG (XPOS FONTWIDTH)
           (SETQ FONTWIDTH (CHARWIDTH (CHCON1 "M")
                                      (DSPFONT NIL IMAGESTREAM)))
           (SETQ XPOS (DSPLEFTMARGIN NIL IMAGESTREAM))
           (for I in (fetch (TESTBUCKET ITEM) of FILEENTRY) do (printout IMAGESTREAM (fetch (ATPRINTSPEC LABEL)
                                                                                     of I))
                                                               (DSPXPOSITION (SETQ XPOS
                                                                                (PLUS XPOS (ITIMES (fetch (ATPRINTSPEC
                                                                                                             WIDTH)
                                                                                                    of I)
                                                                                                   FONTWIDTH)))
                                                                             IMAGESTREAM))
           (TERPRI IMAGESTREAM])
```

(**AT.QUITCOMMAND**
```
  [LAMBDA (KEY WINDOW)                                          (* scv "31-May-85 12:49")
     (CLOSEW WINDOW])
```

)

(DEFINEQ

(**AT.COMMANDDISPATCH**
```
  [LAMBDA (ITEM MENU KEY)                                       (* scv " 3-Jul-85 11:53")
     (PROG (WINDOW ATUPDATE? FILELIST ITEMMAP NUMCOMPLETED NUMSUCCESSFUL FILE XPOS STDOUT)
           (SETQ WINDOW (WINDOWPROP (WFROMMENU MENU)
                                    'MAINWINDOW))
           (COND
              ((FMEMB (CADR ITEM)
                      ATBUSYOKITEMS))
              ((GETWINDOWPROP WINDOW 'AUTOTESTERBUSY)
```

```
                (AT.PROMPTWPRINT WINDOW "The autotester is busy.")
                (RETURN)))
        (COND
           ((EQUAL (CADR ITEM)
                   '"")
             (RETURN)))
        (SETQ ITEMMAP (WINDOWPROP WINDOW 'AUTOTESTERITEMMAP))
        (OR (FMEMB (CADR ITEM)
                   ATNOARGITEMS)
            [SETQ FILELIST (for INDEX in (WINDOWPROP WINDOW 'CURRENTTESTNUMBERS)
                              collect (CAR (NTH ITEMMAP INDEX]
            (PROGN (AT.PROMPTWPRINT WINDOW "No tests are selected")
                   (RETURN)))
        (RESETLST
           (RESETSAVE NIL (LIST 'SHADEITEM ITEM MENU ATITEMUNSELECTEDSHADE))
           [RESETSAVE NIL (LIST [FUNCTION (LAMBDA (W P)
                                             (PUTWINDOWPROP W 'AUTOTESTERBUSY P]
                                WINDOW
                                (GETWINDOWPROP WINDOW 'AUTOTESTERBUSY]
           (PUTWINDOWPROP WINDOW 'AUTOTESTERBUSY T)
           (SHADEITEM ITEM MENU ATITEMSELECTEDSHADE)
           [SELECTQ (CADR ITEM)
               (TEST (RESETLST
                        (RESETSAVE NIL (LIST 'PUTWINDOWPROP WINDOW 'TESTPROCESS NIL))
                        [RESETSAVE NIL (LIST 'SETTOPVAL 'HELPFLAG (GETTOPVAL 'HELPFLAG]
                        (RESETSAVE NIL (LIST 'SET 'HELPFLAG HELPFLAG))
                        (PUTWINDOWPROP WINDOW 'TESTPROCESS (THIS.PROCESS)))
                     (SETTOPVAL 'HELPFLAG NIL)
                     (SETQ HELPFLAG NIL)
                     [SETQ STDOUT (if (EQ KEY 'LEFT)
                                      then T
                                      else (OPENFILE (AT.PROMPTFORINPUT "Name of file to direct output to?
" "" WINDOW)
                                                     'OUTPUT]
                     (SETQ NUMCOMPLETED (WINDOWPROP WINDOW 'NUMCOMPLETED))
                     (SETQ NUMSUCCESSFUL (WINDOWPROP WINDOW 'NUMSUCCESSFUL))
                     [for FILEENTRY in ITEMMAP
                        do (if (AND (FMEMB (fetch (TESTBUCKET %#) of FILEENTRY)
                                           (WINDOWPROP WINDOW 'CURRENTTESTNUMBERS))
                                    (fetch (TESTBUCKET COMPLETED?) of FILEENTRY))
                               then (SETQ NUMCOMPLETED (SUB1 NUMCOMPLETED))
                                    (replace (TESTBUCKET COMPLETED?) of FILEENTRY with NIL)
                                    (if (fetch (TESTBUCKET SUCCESSFUL?) of FILEENTRY)
                                        then (SETQ NUMSUCCESSFUL (SUB1 NUMSUCCESSFUL))
                                             (replace (TESTBUCKET SUCCESSFUL?) of FILEENTRY with NIL]
                     (WINDOWPROP WINDOW 'NUMCOMPLETED NUMCOMPLETED)
                     (WINDOWPROP WINDOW 'NUMSUCCESSFUL NUMSUCCESSFUL)
                     (AT.SHOW.NUMCOMPLETED WINDOW)
                     (AT.SHOW.NUMSUCCESSFUL WINDOW)
                     (WINDOWPROP WINDOW 'AUTOTESTERITEMMAP ITEMMAP)
                     (REDISPLAYW WINDOW)
                     (TTYDISPLAYSTREAM (WINDOWPROP WINDOW 'ATDISPLAYSTREAM))
                     (CLEARW (WINDOWPROP WINDOW 'ATDISPLAYSTREAM))
                     (for FILEENTRY in FILELIST do (AT.TESTCOMMAND FILEENTRY KEY WINDOW STDOUT))
                     (if (NEQ STDOUT T)
                         then (CLOSEF STDOUT))))
               (ABORT (AT.ABORTCOMMAND KEY WINDOW))
               (PAUSE (AT.PAUSECOMMAND KEY WINDOW))
               (RESUME (AT.RESUMECOMMAND KEY WINDOW))
               (DIRECTORY (SETQ ATUPDATE? (AT.DIRECTORYCOMMAND KEY WINDOW)))
               (PRINT (SETQ FILE (AT.GETPRINTDESTINATION KEY))
                      (printout FILE "Testing results for " (WINDOWPROP WINDOW 'ITEMSPEC)
                                ":" T T)
                      (SETQ XPOS (DSPLEFTMARGIN NIL FILE))
                      (for I on ATINFOLISTINGWIDTHS by (CDDR I)
                         do (printout FILE (fetch (ATPRINTSPEC LABEL) of (CADR I)))
                            (DSPXPOSITION [SETQ XPOS (PLUS XPOS (ITIMES (fetch (ATPRINTSPEC WIDTH)
                                                                         of (CADR I))
                                                                (CHARWIDTH (CHCON1 "M")
                                                                           (DSPFONT NIL FILE]
                                         FILE))
                      (TERPRI FILE)
                      (for FILEENTRY in FILELIST do (AT.PRINTCOMMAND FILEENTRY KEY WINDOW FILE))
                      (CLOSEF FILE))
               (SUMMARIZE (SETQ FILE (AT.GETPRINTDESTINATION KEY))
                          (printout FILE "Testing summary for " (WINDOWPROP WINDOW 'ITEMSPEC)
                                    ":" T T)
                          (SETQ XPOS (DSPLEFTMARGIN NIL FILE))
                          (for I on ATINFOLISTINGWIDTHS by (CDDR I)
                             do (printout FILE (fetch (ATPRINTSPEC LABEL) of (CADR I)))
                                (DSPXPOSITION [SETQ XPOS (PLUS XPOS (ITIMES (fetch (ATPRINTSPEC WIDTH)
                                                                             of (CADR I))
                                                                    (CHARWIDTH (CHCON1 "M")
                                                                               (DSPFONT NIL FILE]
                                             FILE))
                          (TERPRI FILE)
                          (for FILEENTRY in FILELIST do (if (NULL (fetch (TESTBUCKET SUCCESSFUL?) of FILEENTRY))
```

```
                                                                      then (AT.PRINTCOMMAND FILEENTRY KEY WINDOW FILE))
                                   )
                               (CLOSEF FILE))
                       (QUIT (AT.QUITCOMMAND KEY WINDOW))
                       (LET ((FN (CADR ITEM)))
                            (if (EQ (CAR FN)
                                    'FUNCTION)
                                then (APPLY* (CADR FN)
                                             FILELIST KEY WINDOW)
                              else (SHOULDNT]
                   (COND
                      (ATUPDATE? (AT.UPDATEAUTOTESTERITEMS (WINDOWPROP WINDOW 'ITEMSPEC)
                                   WINDOW))))])
```

(**AT.SELECT**
```
  [LAMBDA (WINDOW)                                                                (* scv "22-May-85 15:32")
     (PROG (AUTOTESTERITEMMAP TEST SETSEL ADDSEL EXTEND CURRENT#S TEST# FIRST# LAST#)
           (OR (SETQ SETSEL (MOUSESTATE LEFT))
               (SETQ ADDSEL (LASTMOUSESTATE MIDDLE))
               (SETQ EXTEND (LASTMOUSESTATE RIGHT))
               (RETURN))
           (SETQ AUTOTESTERITEMMAP (WINDOWPROP WINDOW 'AUTOTESTERITEMMAP))
           (SETQ TEST (AT.FINDTESTBUCKET WINDOW))
           (COND
              ((NULL TEST)
               (RETURN)))
           [COND
              (SETSEL (for TEST# in (GETWINDOWUSERPROP WINDOW 'CURRENTTESTNUMBERS)
                           do (AT.UNSELECTFILE (CAR (FNTH AUTOTESTERITEMMAP TEST#))
                                               WINDOW))
                      (AT.SELECTFILE TEST WINDOW))
              (ADDSEL (if (fetch (TESTBUCKET SELECTED?) of TEST)
                          then (AT.UNSELECTFILE TEST WINDOW)
                        else (AT.SELECTFILE TEST WINDOW)))
              (EXTEND                                                             (* have to find all the messages between TEST and the one
                                                                                 selected *)

                      (COND
                         ([SETQ CURRENT#S (SORT (WINDOWPROP WINDOW 'CURRENTTESTNUMBERS]
                          (SETQ TEST# (fetch (TESTBUCKET %#) of TEST))
                          [COND
                             [(ILESSP TEST# (CAR CURRENT#S))                      (* before *)
                              (SETQ FIRST# TEST#)
                              (SETQ LAST# (SUB1 (CAR CURRENT#S)]
                             (T (SETQ LAST# TEST#)                                (* after *)
                                (SETQ FIRST# (ADD1 (CAR (LAST CURRENT#S]
                          (for I from FIRST# to LAST# do (AT.SELECTFILE (CAR (NTH AUTOTESTERITEMMAP I))
                                                                        WINDOW]
           (AT.SHOW.NUMSELECTED WINDOW])
```

(**AT.UPDATEAUTOTESTERITEMS**
```
  [LAMBDA (ITEMSPEC WINDOW)                                                       (* scv "12-Jul-85 14:07")
     (PROG ((INFOWANTED '(RESULT NAME FILE))
            HEADINGWINDOW FILEGENERATOR FILENAME FILEINFO MAXWIDTH AUTOTESTERITEMMAP)
           [SETQ FILEGENERATOR (\GENERATEFILES ITEMSPEC '(NAME)
                                     '(SORT RESETLST]
           (SETQ HEADINGWINDOW (GETWINDOWPROP WINDOW 'HEADINGWINDOW))
           (WINDOWPROP HEADINGWINDOW 'TITLE "Auto Tester")
           (CLEARW (WINDOWPROP WINDOW 'COUNTERWINDOW))
           (PUTWINDOWPROP WINDOW 'EXTENT NIL)                                     (* set EXTENT to NIL while updating)
           (PUTWINDOWPROP WINDOW 'INFOGOTTEN INFOWANTED)
           (PUTWINDOWPROP WINDOW 'DIRWIDTH (SETQ MAXWIDTH (AT.PRINTHEADINGSON HEADINGWINDOW INFOWANTED)))
           (DSPRIGHTMARGIN 32767 WINDOW)
           (CLEARW WINDOW)
           [SETQ AUTOTESTERITEMMAP (while (SETQ FILENAME (\GENERATENEXTFILE FILEGENERATOR)) as ITEMCOUNT
                                          from 1 bind ITEM bind STARTOFNAME
                                          collect (if (LISTP FILENAME)
                                                      then (SETQ FILENAME (CONCATCODES FILENAME)))
                                                  (SETQ FILEINFO (AT.GETALLFILEINFO FILENAME FILEGENERATOR INFOWANTED))
                                                  (create TESTBUCKET
                                                          FILENAME _ FILENAME
                                                          %# _ ITEMCOUNT
                                                          ITEM _ [SETQ ITEM (AT.CREATEPRINTSPEC FILEINFO INFOWANTED
                                                                               (OR STARTOFNAME (SETQ STARTOFNAME
                                                                                                  (AT.STARTOFNAME
                                                                                                     FILENAME ITEMSPEC]
                                                          ITEMREGION _ (AT.PRINTANDGETREGION ITEM WINDOW AT.MARKXPOS 10
                                                                         )
                                                          SELECTED? _ NIL
                                                          COMPLETED? _ NIL
                                                          SUCCESSFUL? _ '?]
           (PUTWINDOWPROP WINDOW 'AUTOTESTERITEMMAP AUTOTESTERITEMMAP)
           (PUTWINDOWPROP WINDOW 'EXTENT (if AUTOTESTERITEMMAP
                                            then [create REGION
                                                         LEFT _ 0
                                                         BOTTOM _ [fetch (REGION BOTTOM)
```

```
                                                              of (fetch (TESTBUCKET ITEMREGION)
                                                                of (CAR (LAST AUTOTESTERITEMMAP]
                                             WIDTH _ MAXWIDTH
                                             HEIGHT _ (IDIFFERENCE (fetch (REGION PTOP)
                                                                  of (fetch (TESTBUCKET ITEMREGION)
                                                                      of (CAR AUTOTESTERITEMMAP)
                                                                      ))
                                                        (fetch (REGION BOTTOM)
                                                          of (fetch (TESTBUCKET ITEMREGION)
                                                              of (CAR (LAST AUTOTESTERITEMMAP]
                              else (AT.CLRPROMPTW WINDOW)
                                   (AT.PROMPTWPRINT WINDOW "No files in group " ITEMSPEC)
                                   NIL))
            (PUTWINDOWPROP HEADINGWINDOW 'TITLE (CONCAT (WINDOWPROP WINDOW 'ITEMSPEC)
                                                        " tester"))
            (PUTWINDOWPROP WINDOW 'CURRENTTESTNUMBERS NIL)
            (PUTWINDOWPROP WINDOW 'CURRENTITEM NIL)
            (PUTWINDOWPROP WINDOW 'NUMCOMPLETED 0)
            (PUTWINDOWPROP WINDOW 'NUMSUCCESSFUL 0)
            (AT.SHOW.NUMFILES WINDOW)
            (AT.SHOW.NUMSELECTED WINDOW)
            (AT.SHOW.NUMCOMPLETED WINDOW)
            (AT.SHOW.NUMSUCCESSFUL WINDOW)
            (AT.SHOW.TESTSUITE WINDOW)
            (AT.SHOW.TESTID WINDOW)
            (AT.SHOW.STARTTIME WINDOW)
            (AT.SHOW.ENDTIME WINDOW])


(AT.SINGLE-TEST
  [LAMBDA (IDENTIFIER EXPRESSION PREDICATE TIMEOUT TTYDS STDOUT) (* scv "12-Jul-85 16:08")
    (PROG (RESULT MAIN START)
          (TTYDISPLAYSTREAM TTYDS)
          (OUTPUT STDOUT)
          (SETQ MAIN (WINDOWPROP (WFROMDS TTYDS)
                             'AUTOTESTER))
          (PUTWINDOWPROP MAIN 'TESTID IDENTIFIER)
          (AT.SHOW.TESTID MAIN)
          (PUTWINDOWPROP MAIN 'STARTTIME (IDATE))
          (AT.SHOW.STARTTIME MAIN)
          (IF TIMEOUT
              THEN

                (* The following assumes that the date format used by IDATE and GDATE is in seconds.)

                    (PUTWINDOWPROP MAIN 'ENDTIME (PLUS (IDATE)
                                                    (QUOTIENT TIMEOUT 1000)))
                  (AT.SHOW.ENDTIME MAIN))
          (BLOCK)
          (SETQ START (CLOCK 0))
          (PUTWINDOWPROP MAIN 'TESTSTART START)
          (PUTWINDOWPROP MAIN 'TESTEND (if TIMEOUT
                                          then (PLUS START TIMEOUT)
                                         else -1))
          (SETQ RESULT (ERRORSET EXPRESSION T))
          (PUTWINDOWPROP MAIN 'TESTSTART NIL)
          (PUTWINDOWPROP MAIN 'TESTEND NIL)
          (BLOCK)
          (if (NULL RESULT)
              then (TEST-MESSAGE IDENTIFIER "got an error in expression" EXPRESSION)
                   (PUTWINDOWPROP MAIN 'TESTRESULT '(NIL))
            elseif (EQ (CAR RESULT)
                       'NOBIND)
              then (TEST-MESSAGE IDENTIFIER "returned NOBIND in expression" EXPRESSION)
                   (PUTWINDOWPROP MAIN 'TESTRESULT '(NIL))
            else [SETQ RESULT (ERSETQ (APPLY* PREDICATE (CAR RESULT]
                 (BLOCK)
                 (if (NULL RESULT)
                     then (TEST-MESSAGE IDENTIFIER "got an error in predicate" PREDICATE)
                          (PUTWINDOWPROP MAIN 'TESTRESULT '(NIL))
                   elseif (EQ (CAR RESULT)
                              'NOBIND)
                     then (TEST-MESSAGE IDENTIFIER "returned NOBIND in predicate" PREDICATE)
                          (PUTWINDOWPROP MAIN 'TESTRESULT '(NIL))
                   else (PUTWINDOWPROP MAIN 'TESTRESULT RESULT])
)


            (* * lower-level window mungers)


(DEFINEQ

(AT.MAKERIGIDWINDOW
  [LAMBDA (WINDOW)                                                (* lmm "14-Sep-84 16:22")

            (* * make the argument window immutable w/r/to attachedwindow package)
```

```
              (PROG [[(HEIGHT (fetch (REGION HEIGHT) of (GETWINDOWPROP WINDOW 'REGION]
                    (PUTWINDOWPROP WINDOW 'MINSIZE (CONS 0 HEIGHT))
                    (PUTWINDOWPROP WINDOW 'MAXSIZE (CONS SCREENWIDTH HEIGHT])
```

(AT.CLRPROMPTW
```
  [LAMBDA (MAINWINDOW)                                         (* Jellinek " 6-May-84 16:48")
     (CLEARW (CAR (GETWINDOWPROP MAINWINDOW 'PROMPTWINDOW]))
```

(AT.PRINTHEADINGSON
```
  [LAMBDA (WINDOW HEADINGS)                                    (* scv " 1-Jul-85 10:35")
     (PROG ((totalwidth 0)
             BOTTOM)
            (DSPRIGHTMARGIN 32000 WINDOW)
            (DSPTEXTURE BLACKSHADE WINDOW)
            (DSPOPERATION 'INVERT WINDOW)
            (DSPFILL NIL BLACKSHADE 'REPLACE WINDOW)
            (for HEADING in ATINFOLISTINGWIDTHS by (CDDR HEADING) bind word width (pos _ AT.MARKXPOS)
               when (FMEMB HEADING HEADINGS) do (SETQ word (fetch (ATPRINTSPEC LABEL) of (LISTGET
                                                                                           ATINFOLISTINGWIDTHS
                                                                                           HEADING)))
                                       (SETQ width (ITIMES (fetch (ATPRINTSPEC WIDTH)
                                                              of (LISTGET ATINFOLISTINGWIDTHS HEADING))
                                                           (CHARWIDTH (CHCON1 "M")
                                                                  DEFAULTAUTOTESTFONT)))
                                       (SETQ totalwidth (IPLUS totalwidth width))
                                       (DSPXPOSITION pos WINDOW)
                                       (PRIN3 word WINDOW)
                                       (add pos width))
            (PUTWINDOWPROP WINDOW 'EXTENT (create REGION
                                                 LEFT _ 0
                                                 BOTTOM _ [SETQ BOTTOM (IPLUS (DSPYPOSITION NIL WINDOW)
                                                                              (FONTPROP WINDOW 'ASCENT]
                                                 WIDTH _ totalwidth
                                                 HEIGHT _ (IDIFFERENCE (GETWINDOWPROP WINDOW 'HEIGHT)
                                                                  BOTTOM)))
            (RETURN totalwidth])
```

(AT.PRINTANDGETREGION
```
  [LAMBDA (PRINTSPEC STREAM LFTMARGIN MINSPACE)                (* scv " 1-Jul-85 11:29")
                                                              (* prints PRINTSPEC on WINDOW and returns the box taken by
     the characters.)
     (PROG (YSTART YEND HEIGHT)
            (DSPXPOSITION LFTMARGIN STREAM)
            (SETQ YSTART (DSPYPOSITION NIL STREAM))
            (for SPEC in PRINTSPEC bind OLDX PRETTYWIDTH do (SETQ OLDX (DSPXPOSITION NIL STREAM))
                                              [SETQ PRETTYWIDTH (ITIMES (fetch (ATPRINTSPEC WIDTH)
                                                                          of SPEC)
                                                                       (CHARWIDTH (CHCON1 "M")
                                                                              (DSPFONT NIL STREAM]
                                              (COND
                                                 ((fetch (ATPRINTSPEC LABEL) of SPEC)
                                                  (PRIN3 (fetch (ATPRINTSPEC LABEL) of SPEC)
                                                         STREAM)
                                                  (PRIN3 " " STREAM)))
                                                      (* If any single item won't fit, skip a line and continue)
                                              (if (IGEQ (IDIFFERENCE (DSPXPOSITION NIL STREAM)
                                                               OLDX)
                                                        PRETTYWIDTH)
                                                  then (TERPRI STREAM))
                                              (DSPXPOSITION (IPLUS OLDX PRETTYWIDTH)
                                                     STREAM))
            (SETQ YEND (DSPYPOSITION NIL STREAM))
            (RETURN (PROG1 (create REGION
                                  LEFT _ LFTMARGIN
                                  BOTTOM _ (IDIFFERENCE YEND (FONTPROP STREAM 'DESCENT))
                                  HEIGHT _ (IPLUS (IDIFFERENCE YSTART YEND)
                                                 (FONTPROP STREAM 'HEIGHT))
                                  WIDTH _ (IDIFFERENCE (DSPXPOSITION NIL STREAM)
                                                 LFTMARGIN))
                           (TERPRI STREAM])
```

(AT.MAKEHEADINGWINDOW
```
  [LAMBDA (WIDTH FONT BORDER TITLE)                            (* scv "23-May-85 11:56")
     (PROG (PWINDOW)
            (SETQ PWINDOW (CREATEW (create REGION
                                          LEFT _ 0
                                          BOTTOM _ 0
                                          WIDTH _ WIDTH
                                          HEIGHT _ (HEIGHTIFWINDOW (FONTPROP FONT 'HEIGHT)
                                                          TITLE BORDER))
                                   TITLE BORDER T))
            (DSPFONT FONT PWINDOW)
```

```
                  (PUTWINDOWPROP PWINDOW 'PAGEFULLFN (FUNCTION NILL))
                  (PUTWINDOWPROP PWINDOW 'NOSCROLLBARS T)
                  (PUTWINDOWPROP PWINDOW 'SCROLLFN (FUNCTION SCROLLBYREPAINTFN))
                  (PUTWINDOWPROP PWINDOW 'REPAINTFN (FUNCTION AT.HEADINGWREDISPLAYFN))
                  (AT.MAKERIGIDWINDOW PWINDOW)
                  (RETURN PWINDOW])
```

(**AT.MAKECOUNTERWINDOW**
```
  [LAMBDA (HEIGHT WIDTH AUTOTESTW)                           (* scv "30-May-85 16:59")
    (LET ((COUNTERW (CREATEW (create REGION
                                  LEFT _ 0
                                  BOTTOM _ 0
                                  HEIGHT _ (HEIGHTIFWINDOW (FONTPROP DEFAULTAUTOTESTFONT 'HEIGHT))
                                  WIDTH _ (WINDOWPROP AUTOTESTW 'WIDTH))
                              NIL NIL T)))
          (AT.MAKERIGIDWINDOW COUNTERW)
          (WINDOWPROP COUNTERW 'AUTOTESTERWINDOW AUTOTESTW)
          (WINDOWPROP COUNTERW 'REPAINTFN (FUNCTION AT.REPAINT.COUNTERW))
          COUNTERW])
```

(**AT.MAKETIMEWINDOW**
```
  [LAMBDA (HEIGHT WIDTH AUTOTESTW)                           (* scv "15-Jul-85 15:36")
    (LET ((TIMEW (CREATEW (create REGION
                                LEFT _ 0
                                BOTTOM _ 0
                                HEIGHT _ (HEIGHTIFWINDOW (FONTPROP ATTIMEWINDOWFONT 'HEIGHT))
                                WIDTH _ (WINDOWPROP AUTOTESTW 'WIDTH))
                            NIL NIL T)))
          (AT.MAKERIGIDWINDOW TIMEW)
          (WINDOWPROP TIMEW 'AUTOTESTERWINDOW AUTOTESTW)
          (WINDOWPROP TIMEW 'REPAINTFN (FUNCTION AT.REPAINT.TIMEW))
          (DSPFONT ATTIMEWINDOWFONT TIMEW)
          TIMEW])
```

(**AT.PROMPTWPRINT**
```
  [LAMBDA U                                                 (* Jellinek " 6-May-84 16:37")
    (PROG (WINDOW)
          (COND
             ((ILESSP U 2)
              (ERROR "not enough args to PROMPTWPRINT")))   (* CAR is window, CDR is height in lines)
          [SETQ WINDOW (CAR (GETWINDOWPROP (ARG U 1)
                                           'PROMPTWINDOW]
          (for ITEM from 2 to U do (PRIN1 (ARG U ITEM)
                                          WINDOW])
```

(**AT.PROMPTWTERPRI**
```
  [LAMBDA (MAINWINDOW)                                      (* Jellinek " 6-May-84 16:37")
                                                            (* CAR is prompt window, CDR is height in lines)

    (TERPRI (CAR (GETWINDOWPROP MAINWINDOW 'PROMPTWINDOW])
```

(**AT.SELECTFILE**
```
  [LAMBDA (FOLDER WINDOW)                                   (* scv "23-May-85 12:10")
    (COND
       (FOLDER (replace (TESTBUCKET SELECTED?) of FOLDER with T)
               (WINDOWADDPROP WINDOW 'CURRENTTESTNUMBERS (fetch (TESTBUCKET %#) of FOLDER))
               [WINDOWPROP WINDOW 'CURRENTTESTNUMBERS (SORT (WINDOWPROP WINDOW 'CURRENTTESTNUMBERS]
               (\ITEMW.SELECTITEM (LIST (fetch (TESTBUCKET ITEMREGION) of FOLDER))
                       WINDOW])
```

(**AT.UNSELECTFILE**
```
  [LAMBDA (MSG WINDOW)                                      (* scv "28-May-85 12:53")
    (COND
       (MSG (replace (TESTBUCKET SELECTED?) of MSG with NIL)
            [WINDOWPROP WINDOW 'CURRENTTESTNUMBERS (REMOVE (fetch (TESTBUCKET %#) of MSG)
                                                           (WINDOWPROP WINDOW 'CURRENTTESTNUMBERS]
            (\ITEMW.DESELECTITEM (LIST (fetch ITEMREGION of MSG))
                    WINDOW])
```

(**AT.CHANGECOMPLETEMARK**
```
  [LAMBDA (TEST WINDOW)                                     (* scv "28-May-85 12:37")
    (PROG ((TESTREGION (fetch ITEMREGION of TEST)))
          (BITBLT NIL 0 0 WINDOW (fetch (REGION LEFT) of TESTREGION)
                  (IDIFFERENCE (fetch (REGION PTOP) of TESTREGION)
                       (IQUOTIENT (FONTPROP WINDOW 'HEIGHT)
                                  2))
                  (fetch (REGION WIDTH) of TESTREGION)
                  1
                  'TEXTURE
                  'INVERT BLACKSHADE])
```

⟨**AT.SHOW.NUMCOMPLETED**
```
  [LAMBDA (AUTOTESTERW)                                    (* scv "20-Jun-85 09:30")
    (LET ((COUNTERW (WINDOWPROP AUTOTESTERW 'COUNTERWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 2))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               3)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP COUNTERW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE COUNTERW)
              (DSPXPOSITION STARTPOSITION COUNTERW)
              (PRIN3 "Completed:" COUNTERW)
              (CENTERPRINTINREGION (WINDOWPROP AUTOTESTERW 'NUMCOMPLETED)
                     PRINTINGREGION COUNTERW])
```

⟨**AT.SHOW.NUMFILES**
```
  [LAMBDA (AUTOTESTERW)                                    (* scv "20-Jun-85 09:28")
    (LET ((COUNTERW (WINDOWPROP AUTOTESTERW 'COUNTERWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 0))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               1)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP COUNTERW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE COUNTERW)
              (DSPXPOSITION STARTPOSITION COUNTERW)
              (PRIN3 "Files:" COUNTERW)
              (CENTERPRINTINREGION (LENGTH (WINDOWPROP AUTOTESTERW 'AUTOTESTERITEMMAP))
                     PRINTINGREGION COUNTERW])
```

⟨**AT.SHOW.NUMSELECTED**
```
  [LAMBDA (AUTOTESTERW)                                    (* scv "20-Jun-85 09:35")
    (LET ((COUNTERW (WINDOWPROP AUTOTESTERW 'COUNTERWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 1))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               2)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP COUNTERW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE COUNTERW)
              (DSPXPOSITION STARTPOSITION COUNTERW)
              (PRIN3 "Selected:" COUNTERW)
              (CENTERPRINTINREGION (LENGTH (WINDOWPROP AUTOTESTERW 'CURRENTTESTNUMBERS))
                     PRINTINGREGION COUNTERW])
```

⟨**AT.SHOW.NUMSUCCESSFUL**
```
  [LAMBDA (AUTOTESTERW)                                    (* scv "20-Jun-85 09:30")
    (LET ((COUNTERW (WINDOWPROP AUTOTESTERW 'COUNTERWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 3))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               4)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP COUNTERW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE COUNTERW)
              (DSPXPOSITION STARTPOSITION COUNTERW)
              (PRIN3 "Successful:" COUNTERW)
              (CENTERPRINTINREGION (WINDOWPROP AUTOTESTERW 'NUMSUCCESSFUL)
                     PRINTINGREGION COUNTERW])
```

⟨**AT.SHOW.ENDTIME**
```
  [LAMBDA (AUTOTESTERW)                                    (* scv "12-Jul-85 16:01")
```

```
      (LET ((TIMEW (WINDOWPROP AUTOTESTERW 'TIMEWINDOW))
            (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                              4)
                                   3))
            (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 4)))
           (LET [(PRINTINGREGION (create REGION
                                         LEFT _ STARTPOSITION
                                         WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                         BOTTOM _ 0
                                         HEIGHT _ (WINDOWPROP TIMEW 'HEIGHT]
                (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE TIMEW)
                (DSPXPOSITION STARTPOSITION TIMEW)
                (PRIN3 "End:" TIMEW)
                (IF (WINDOWPROP AUTOTESTERW 'ENDTIME)
                    THEN (CENTERPRINTINREGION (GDATE (WINDOWPROP AUTOTESTERW 'ENDTIME))
                                 PRINTINGREGION TIMEW]))
```

(**AT.SHOW.STARTTIME**
```
  [LAMBDA (AUTOTESTERW)                                          (* scv "15-Jul-85 15:43")
    (LET ((TIMEW (WINDOWPROP AUTOTESTERW 'TIMEWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 2))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               3)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP TIMEW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE TIMEW)
              (DSPXPOSITION STARTPOSITION TIMEW)
              (PRIN3 "Start:" TIMEW)
              (IF (WINDOWPROP AUTOTESTERW 'STARTTIME)
                  THEN (CENTERPRINTINREGION (GDATE (WINDOWPROP AUTOTESTERW 'STARTTIME))
                               PRINTINGREGION TIMEW]))
```

(**AT.SHOW.TESTID**
```
  [LAMBDA (AUTOTESTERW)                                          (* scv "12-Jul-85 13:49")
    (LET ((TIMEW (WINDOWPROP AUTOTESTERW 'TIMEWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 1))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               2)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP TIMEW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE TIMEW)
              (DSPXPOSITION STARTPOSITION TIMEW)
              (PRIN3 "ID:" TIMEW)
              (IF (WINDOWPROP AUTOTESTERW 'TESTID)
                  THEN (CENTERPRINTINREGION (WINDOWPROP AUTOTESTERW 'TESTID)
                               PRINTINGREGION TIMEW]))
```

(**AT.SHOW.TESTSUITE**
```
  [LAMBDA (AUTOTESTERW)                                          (* scv "12-Jul-85 13:47")
    (LET ((TIMEW (WINDOWPROP AUTOTESTERW 'TIMEWINDOW))
          (STARTPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                            4)
                                 0))
          (ENDPOSITION (ITIMES (IQUOTIENT (WINDOWPROP AUTOTESTERW 'WIDTH)
                                          4)
                               1)))
         (LET [(PRINTINGREGION (create REGION
                                       LEFT _ STARTPOSITION
                                       WIDTH _ (IDIFFERENCE ENDPOSITION STARTPOSITION)
                                       BOTTOM _ 0
                                       HEIGHT _ (WINDOWPROP TIMEW 'HEIGHT]
              (DSPFILL PRINTINGREGION WHITESHADE 'REPLACE TIMEW)
              (DSPXPOSITION STARTPOSITION TIMEW)
              (PRIN3 "Suite:" TIMEW)
              (IF (WINDOWPROP AUTOTESTERW 'TESTSUITE)
                  THEN (CENTERPRINTINREGION (WINDOWPROP AUTOTESTERW 'TESTSUITE)
                               PRINTINGREGION TIMEW]))

)
```

(* * window functions)

```
(DEFINEQ

(AT.HEADINGWREDISPLAYFN
  [LAMBDA (WINDOW)                                          (* scv "24-May-85 17:06")
    (AT.PRINTHEADINGSON WINDOW (GETWINDOWPROP (GETWINDOWPROP WINDOW 'MAINWINDOW)
                                    'INFOGOTTEN])


(AT.REPAINT.COUNTERW
  [LAMBDA (COUNTERWINDOW)                                   (* scv "29-May-85 14:12")
    (LET [(AUTOTESTERW (WINDOWPROP COUNTERWINDOW 'AUTOTESTERWINDOW]
      (DSPFILL NIL WHITESHADE 'REPLACE COUNTERWINDOW)
      (AT.SHOW.NUMFILES AUTOTESTERW)
      (AT.SHOW.NUMSELECTED AUTOTESTERW)
      (AT.SHOW.NUMCOMPLETED AUTOTESTERW)
      (AT.SHOW.NUMSUCCESSFUL AUTOTESTERW])


(AT.REPAINT.TIMEW
  [LAMBDA (TIMEWINDOW)                                      (* scv "12-Jul-85 13:16")
    (LET [(AUTOTESTERW (WINDOWPROP TIMEWINDOW 'AUTOTESTERWINDOW]
      (DSPFILL NIL WHITESHADE 'REPLACE TIMEWINDOW)
      (AT.SHOW.TESTSUITE AUTOTESTERW)
      (AT.SHOW.TESTID AUTOTESTERW)
      (AT.SHOW.STARTTIME AUTOTESTERW)
      (AT.SHOW.ENDTIME AUTOTESTERW])


(AT.ICONFN
  [LAMBDA (W I)                                             (* scv " 3-Jun-85 14:41")
    (PROG (OLDICONREGION)
          [SETQ OLDICONREGION (AND I (GETWINDOWPROP I 'REGION]
          (RETURN (TITLEDICONW (create TITLEDICON
                                    ICON _ ATICON
                                    MASK _ ATICONMASK
                                    TITLEREG _
                                     (create REGION
                                            LEFT _ 5
                                            WIDTH _ 70
                                            BOTTOM _ 45
                                            HEIGHT _ 75))
                       (GETWINDOWPROP W 'ITEMSPEC)
                       ATICONFONT
                       (AND I (create POSITION
                                    XCOORD _ (fetch (REGION LEFT) of OLDICONREGION)
                                    YCOORD _ (fetch (REGION BOTTOM) of OLDICONREGION)))
                       NIL
                       'TOP])


(AT.BUTTONEVENTFN
  [LAMBDA (WINDOW)                                          (* scv "30-May-85 09:23")
    (AT.SELECT WINDOW])


(AT.CURSORMOVEDFN
  [LAMBDA (WINDOW)                                          (* scv "29-May-85 09:49")
    (if (IGEQ AT.MARKXPOS (fetch XCOORD of (CURSORPOSITION NIL WINDOW)))
        then (SETCURSOR AT.RIGHTARROWCURSOR)
      else (if (NEQ (CURSOR)
                    DEFAULTCURSOR)
               then (SETCURSOR DEFAULTCURSOR])


(AT.CURSOROUTFN
  [LAMBDA (WINDOW)                                          (* rao%: "30-JUN-82 15:49")
    (SETCURSOR DEFAULTCURSOR])


(AT.REPAINTFN
  [LAMBDA (WINDOW R)                                        (* scv "29-May-85 09:45")
    (PROG ((AUTOTESTERITEMMAP (GETWINDOWPROP WINDOW 'AUTOTESTERITEMMAP))
           (HEADINGWINDOW (GETWINDOWPROP WINDOW 'HEADINGWINDOW))
           (TOP (fetch (REGION TOP) of R))
           [BOTTOM (IDIFFERENCE (fetch (REGION BOTTOM) of R)
                        (FONTPROP WINDOW 'ASCENT]
           YPOS ITEMSPEC DIRWIDTH STARTOFNAME ATTRS)
          (COND
            ((NULL AUTOTESTERITEMMAP)
             (RETURN)))
          (for FILE in AUTOTESTERITEMMAP bind REGION
             do (if (AND [IGREATERP TOP (SETQ YPOS (fetch (REGION BOTTOM) of (SETQ REGION (fetch (TESTBUCKET
                                                                                          ITEMREGION)
                                                                       of FILE]
```

```
                                (ILESSP BOTTOM (fetch (REGION TOP) of REGION)))
                         then (DSPYPOSITION (IDIFFERENCE (IPLUS (fetch (REGION BOTTOM) of REGION)
                                                                 (fetch (REGION HEIGHT) of REGION))
                                                         (FONTPROP WINDOW 'ASCENT))
                                             WINDOW)
                           (OR (EQUAL (AT.PRINTANDGETREGION (fetch (TESTBUCKET ITEM) of FILE)
                                              WINDOW AT.MARKXPOS 10)
                                       REGION)
                                 T
                                 (HELP))
                         (if (fetch (TESTBUCKET SELECTED?) of FILE)
                             then (\ITEMW.SELECTITEM (LIST (fetch ITEMREGION of FILE))
                                          WINDOW))
                         (if (fetch (TESTBUCKET COMPLETED?) of FILE)
                             then (AT.CHANGECOMPLETEMARK FILE WINDOW)))
                 repeatwhile (ILESSP BOTTOM YPOS])
```

(**AT.SCROLLFN**
```
   [LAMBDA (WINDOW HORIZ VERT CONTINUOUS?)                         (* scv "28-May-85 12:45")

         (* * Scroll AT window up/down and right/left. In right/left case, tell heading window to scroll also)

         (* * only scroll an integral number of text lines)

      (if (GETWINDOWPROP WINDOW 'AUTOTESTERBUSY)
          then (AT.CLRPROMPTW WINDOW)
               (AT.PROMPTWPRINT WINDOW "The autotester is busy.")
        else (COND
                 ((NOT (ZEROP HORIZ))
                  (SCROLLW (GETWINDOWPROP WINDOW 'HEADINGWINDOW)
                         HORIZ VERT CONTINUOUS?)))
             (SCROLLBYREPAINTFN WINDOW HORIZ VERT CONTINUOUS?])
```

(**AT.RIGHTBUTTONFN**
```
   [LAMBDA (WINDOW)                                                (* scv "29-May-85 09:45")
      (COND
         ((IGREATERP (LASTMOUSEX WINDOW)
                 AT.MARKXPOS)
          (DOWINDOWCOM WINDOW))
         (T (AT.SELECT WINDOW])
```

(**AT.MENU.WHENSELECTEDFN**
```
   [LAMBDA (Item Menu Key)                                         (* scv "28-May-85 11:03")
      (ADD.PROCESS (LIST (FUNCTION AT.COMMANDDISPATCH)
                         (KWOTE Item)
                         (KWOTE Menu)
                         (KWOTE Key))
              'NAME
              (PACK (LIST 'AT- (CAR Item])
```

(**AT.CLOSEFN**
```
   [LAMBDA (WINDOW)                                                (* scv " 2-Jul-85 13:55")
                                                                   (* did you really want to close up shop?)

         (* * do the right thing; if we are really closing, smash pointers which can cause circularities, so everything gets collected)

      (PROG (PROC)
            (SETQ PROC (GETWINDOWPROP WINDOW 'TESTPROCESS))
            (RETURN (COND
                        (PROC (SUSPEND.PROCESS PROC)
                              (if (MOUSECONFIRM "Tests in progress:  " "Click left button to ABORT tests, right
                                      button to RESUME tests." (GETPROMPTWINDOW (MAINWINDOW WINDOW T)))
                                  then (DEL.PROCESS PROC)
                                       (PUTWINDOWPROP (GETWINDOWPROP WINDOW 'COUNTERWINDOW)
                                              'AUTOTESTERWINDOW NIL)
                                       (PUTWINDOWPROP WINDOW 'ATDISPLAYSTREAM NIL)
                                else (WAKE.PROCESS PROC)
                                     'DON'T))
                        (T (PUTWINDOWPROP (GETWINDOWPROP WINDOW 'COUNTERWINDOW)
                                  'AUTOTESTERWINDOW NIL)
                           (PUTWINDOWPROP WINDOW 'ATDISPLAYSTREAM NIL])
```

(**AT.HARDCOPYFN**
```
   [LAMBDA (WINDOW IMAGESTREAM)                                    (* scv " 1-Jul-85 14:15")
      (SETQ WINDOW (MAINWINDOW WINDOW T))
      (PROG (XPOS FONTWIDTH)
            (printout IMAGESTREAM "Testing results for " (GETWINDOWPROP WINDOW 'ITEMSPEC)
                   ":" T T)
            (SETQ FONTWIDTH (CHARWIDTH (CHCON1 "M")
                                    (DSPFONT NIL IMAGESTREAM)))
            (SETQ XPOS (DSPLEFTMARGIN NIL IMAGESTREAM))
            (for I on ATINFOLISTINGWIDTHS by (CDDR I) do (printout IMAGESTREAM (fetch (ATPRINTSPEC LABEL)
```

```
                                                                              of (CADR I)))
                                                 (DSPXPOSITION (SETQ XPOS (PLUS XPOS
                                                                               (ITIMES (fetch (ATPRINTSPEC
                                                                                                 WIDTH)
                                                                                      of (CADR I))
                                                                                   FONTWIDTH)))
                                              IMAGESTREAM))
                (TERPRI IMAGESTREAM)
                (for FILEENTRY in (for INDEX in (GETWINDOWPROP WINDOW 'CURRENTTESTNUMBERS)
                                       collect (CAR (NTH (GETWINDOWPROP WINDOW 'AUTOTESTERITEMMAP)
                                                         INDEX)))
                    do (AT.PRINTCOMMAND FILEENTRY 'RIGHT WINDOW IMAGESTREAM])

)


            (* * odds and ends)

(DEFINEQ

(AT.FETCHFILENAME
  [LAMBDA (ENTRY)                                          (* scv "24-May-85 16:45")
    (fetch (TESTBUCKET FILENAME) of ENTRY])


(AT.STARTOFNAME
  [LAMBDA (FILENAME SPEC)                                  (* lmm "14-Sep-84 17:59")
                                                           (* assume that hosts match)
    [SETQ SPEC (SUBSTRING SPEC (ADD1 (OR (LASTCHPOS (CHARCODE })
                                                    SPEC)
                                        0]
    (bind (DIRSTART _ (ADD1 (OR (LASTCHPOS (CHARCODE })
                                    FILENAME)
                                0)))
        DIREND first (SETQ FILENAME (SUBSTRING FILENAME DIRSTART)) while (SETQ DIREND (LASTCHPOS (CHARCODE >)
                                                                                         SPEC))
       do (SETQ SPEC (SUBSTRING SPEC 1 DIREND SPEC))
          [if (STRPOS SPEC FILENAME 1 NIL T NIL (UPPERCASEARRAY))
              then (RETURN (IPLUS DIRSTART (NCHARS SPEC]
          (SETQ SPEC (SUBSTRING SPEC 1 -2 SPEC))
       finally (RETURN DIRSTART])


(AT.STARTUP
  [LAMBDA (WINDOW COMMANDMENU COMMANDMENUWINDOW)            (* scv "20-Jun-85 11:05")
    (PROG ((DIR (FASSOC 'DIRECTORY ATMENUITEMS)))
          (RESETLST
              (RESETSAVE NIL (LIST 'SHADEITEM DIR COMMANDMENU WHITESHADE))
              (RESETSAVE NIL (LIST [FUNCTION (LAMBDA (W P)
                                               (PUTWINDOWPROP W 'AUTOTESTERBUSY P]
                                    WINDOW NIL))
              (SHADEITEM DIR COMMANDMENU ATITEMSELECTEDSHADE COMMANDMENUWINDOW)
              (PUTWINDOWPROP WINDOW 'AUTOTESTERBUSY T)
              (AT.UPDATEAUTOTESTERITEMS (GETWINDOWPROP WINDOW 'ITEMSPEC)
                    WINDOW))])


(AT.CREATEPRINTSPEC
  [LAMBDA (FILEINFO WANTTOSEE NAMESTART)                    (* scv "13-Jun-85 17:23")
    (for HEADING in ATINFOLISTINGWIDTHS by (CDDR HEADING) when (FMEMB HEADING WANTTOSEE)
       collect (create ATPRINTSPEC
                     LABEL _ [COND
                               ((EQ HEADING 'FILE)
                                (SUBSTRING (CDR (FASSOC HEADING FILEINFO))
                                       NAMESTART))
                               (T (CDR (FASSOC HEADING FILEINFO]
                     WIDTH _ (fetch (ATPRINTSPEC WIDTH) of (LISTGET ATINFOLISTINGWIDTHS HEADING])


(AT.FINDTESTBUCKET
  [LAMBDA (WINDOW)                                          (* scv "22-May-85 15:30")
    (for TEST in (WINDOWPROP WINDOW 'AUTOTESTERITEMMAP) bind [YPOS _ (IPLUS (LASTMOUSEY WINDOW)
                                                                          (FONTPROP WINDOW 'DESCENT]
       thereis (IGREATERP YPOS (fetch BOTTOM of (fetch (TESTBUCKET ITEMREGION) of TEST])


(AT.PROMPTFORINPUT
  [LAMBDA (PROMPT EXPRS WINDOW)                             (* hdj " 1-Sep-84 15:58")
    (PROMPTFORWORD PROMPT EXPRS NIL (CAR (GETWINDOWPROP WINDOW 'PROMPTWINDOW))
           NIL
           'TTY
           (CHARCODE (CR ESC])


(AT.GETALLFILEINFO
  [LAMBDA (FILE GENERATOR ATTRIBUTES)                       (* scv "13-Jun-85 16:15")
```

```
          (* *)

     (for ATTR in ATTRIBUTES collect (if (EQ ATTR 'FILE)
                                          then (CONS ATTR FILE)
                                        elseif (EQ ATTR 'NAME)
                                          then (CONS ATTR (FILENAMEFIELD FILE 'NAME))
                                        elseif (EQ ATTR 'RESULT)
                                          then (CONS ATTR '?)
                                          else (CONS ATTR (\GENERATEFILEINFO GENERATOR ATTR])
```

(AT.GETPRINTDESTINATION
```
  [LAMBDA (KEY)                                               (* scv " 2-Jul-85 10:24")
    (if (EQ KEY 'LEFT)
        then (OPENIMAGESTREAM '{LPT})
      else (SELECTQ (MENU (create MENU
                                  ITEMS _ '(File Printer)
                                  TITLE _ "Print where?"
                                  MENUCOLUMNS _ 1))
              (File [PROG (FILE)
                          (SETQ FILE (GetImageFile))
                          (RETURN (OPENIMAGESTREAM (CAR FILE)
                                          (CDR FILE])
              (Printer (OPENIMAGESTREAM (PACKFILENAME 'HOST 'LPT 'NAME (GetPrinterName))))
              (SHOULDNT "Bad printer destination"])
```

(AT.\ItemWithTag
```
  [LAMBDA (TAG ITEMS)                                         (* hdj "16-Sep-84 16:16")

          (* * search a menu's items for one with tag TAG)

     (for ITEM in ITEMS do (if (EQ (CADR ITEM)
                                   TAG)
                               then (RETURN ITEM])
)

(DECLARE%: EVAL@COMPILE DONTCOPY

(DECLARE%: EVAL@COMPILE

(RPAQQ AT.MARKXPOS 16)

(CONSTANTS (AT.MARKXPOS 16))
)

(DECLARE%: EVAL@COMPILE

(RECORD ATPRINTSPEC (LABEL . WIDTH))

(RECORD TESTBUCKET (FILENAME ITEMREGION %# SELECTED? COMPLETED? SUCCESSFUL? ITEM))
)
)

(ADDTOVAR BackgroundMenuCommands ("AutomatedTester" (AT)
                                               "Opens an automated tester window; prompts for directory"))

(RPAQQ BackgroundMenu NIL)

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS

(ADDTOVAR NLAMA AT)

(ADDTOVAR NLAML )

(ADDTOVAR LAMA AT.PROMPTWPRINT)
)

(PUTPROPS AUTOTEST COPYRIGHT ("XEROX Corporation" 1985 2020))
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FUNCTION INDEX

VARIABLE INDEX

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