```
19-Ju1-2023 08:57:43 {WMEDLEY}<sources>MEDLEYDIR.;22
 File created:
      edit by:
                rmk
  changes to:
                 (FNS MEDIEYDIR)
previous date:
                17-Jul-2023 16:13:10 {WMEDLEY}<sources>MEDLEYDIR.;21
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                  XCCS
(RPAQQ MEDLEYDIRCOMS
         ^{
m L};; set up initialization for file paths relative to where Medley is installed. This assumes that the environment variable MEDLEYDIR is set
         ;; (usually by the ./run-medley script) to the (unix path) and all of the other directories variables are set relative to that (by ;; MEDLEY-INIT-VARS)
          (FNS MEDLEY-INIT-VARS MEDLEYDIR MEDLEYSUBSTDIR)
         (INITVARS (MEDLEYDIR)
                  (\SAVE.MEDLEYDIR))
         (ADDVARS (AROUNDEXITFNS MEDLEY-INIT-VARS))
         ;; **WARNING** The EVALed expressions get run early in the lodup.
         (VARS MEDLEY-INIT-VARS)
         (DECLARE%: EVAL@COMPILE DOCOPY (ADDVARS (GLOBALVARS MEDLEYDIR MEDLEY-INIT-VARS \SAVE.MEDLEYDIR
                                                                  DIRECTORIES])
;; set up initialization for file paths relative to where Medley is installed. This assumes that the environment variable MEDLEYDIR is set (usually by the
;; /run-medley script) to the (unix path) and all of the other directories variables are set relative to that (by MEDLEY-INIT-VARS)
(DEFINEQ
(MEDLEY-INIT-VARS
  [LAMBDA (EVENT)
                                                                             ; Edited 22-Nov-2022 20:38 by FGH
                                                                              Edited 21-Nov-2022 17:31 by FGH Edited 21-Nov-2022 15:39 by frank
                                                                              Edited 21-Nov-2022 14:33 by FGH
Edited 25-Oct-2022 12:18 by Imm
                                                                              Edited 18-Oct-2022 18:08 by Imm
    ;; Called on events including before & after loadup
     (SELECTQ EVENT
          ((BEFOREMAKESYS T) ;; Clear old values
                (FOR X IN MEDLEY-INIT-VARS DO (IF
                                                         (CDDR X)
                                                         THEN (SETTOPVAL (CAR X)
                (SETQ \SAVE.MEDLEYDIR NIL))
          ((BEFORESYSOUT BEFORELOGOUT BEFORESAVEVM) ;; save old values
                [SETQ \SAVE.MEDLEYDIR (CONS MEDLEYDIR (FOR X IN MEDLEY-INIT-VARS
                                                                 COLLECT (CONS (CAR X)
                                                                                   (GETTOPVAL (CAR X])
          ((AFTERSYSOUT AFTERLOGOUT AFTERSAVEVM RESTART INIT NIL)
                                                                             ;; Any old values, restore them, substituting the new ;; MEDLEYDIR
                (PROG (OLDMD NEWMD SAME TMP)
                       (IF
                           (EQ \SAVE.MEDLEYDIR T)
                           THEN
                                                                             ; Already restored
                                  (RETURN))
                       (IF \SAVE.MEDLEYDIR
                           THEN (SETQ OLDMD (U-CASE (CAR \SAVE.MEDLEYDIR)))
                                  (SETQ MEDLEYDIR)
                                  (SETQ NEWMD (MEDLEYDIR))
                                  (SETQ SAME (STRING-EQUAL OLDMD NEWMD)))
                       [for x in MEDLEY-INIT-VARS
                          do (/SETTOPVAL (CAR X)
                                       (IF [OR (EQ (CADDR X) 'RESET)
                                                (NOT (SETQ TMP (ASSOC (CAR X)
                                                                          (CDR \SAVE.MEDLEYDIR]
                                           THEN ;; either RESET or no saved value
                                                  (EVAL (CADR X))
                                         ELSEIF SAME
                                           THEN (CDR
                                                       TMP)
                                         ELSE (MEDLEYSUBSTDIR OLDMD NEWMD (CDR TMP)
                       (SETQ \SAVE.MEDLEYDIR T)
                                                                             ; only use once
                  ))
          ((GREET)
                (SETO MEDLEYDIR)
                (SETQ MEDLEYDIR (MEDLEYDIR))
                [for x in medley-init-vars do (/settopval (car x)
                                                           (EVAL (CADR X)
```

```
{MEDLEY}<sources>MEDLEYDIR.;1 (MEDLEY-INIT-VARS cont.)
                (SETQ \SAVE.MEDLEYDIR T))
          (PROGN
                                                                               ; no changes
                  NIL])
(MEDLEYDIR
  [LAMBDA (DIRNAME FILENAME OUTPUT NOERROR)
                                                                               ; Edited 29-Jun-2023 22:48 by rmk
                                                                               ; Edited 18-Oct-2022 17:49 by Imm
; Edited 5-Mar-2022 12:43 by larry
                                                                               ; Edited 2-Dec-2021 20:23 by kaplan
     ;; RMK: MEDLEYDIR defaults to DSK
     (COND
         ((NULL DIRNAME)
          (if (OR (NOT (BOUNDP 'MEDLEYDIR))
                  (NOT MEDLEYDIR))
              then [SETQ MEDLEYDIR (DIRECTORYNAME (if (SETQ MEDLEYDIR (UNIX-GETENV "MEDLEYDIR"))
                                                               then (DIRECTORYNAME (PACKFILENAME 'BODY MEDLEYDIR
                                                                                                'HOST
                                                                                                'DSK))
                                                             else (DIRECTORYNAME T)
            elseif (STRPOS "/" MEDLEYDIR)
              then (SETQ MEDLEYDIR (DIRECTORYNAME MEDLEYDIR))
        else MEDLEYDIR))
[(EQUAL DIRNAME "login")
                                                                               ; special case for login dir
          (DIRECTORYNAME (OR (UNIX-GETENV "LOGINDIR")
                                 (UNIX-GETENV "HOME"]
         ((LISTP DIRNAME)
        (for x y in dirname when (setq y (MEDLEYDIR x filename output noerror)) collect y)) [filename (if (null (setq dirname (MEDLEYDIR dirname nil output noerror)))
                         then (OR NOERROR (SHOULDNT))
                               NIL
                       else (SETQ FILENAME (CONCAT DIRNAME FILENAME))
                             (if OUTPUT
                                 then FILENAME
                               else (OR (INFILEP FILENAME)
                                         (if NOERROR
                                             then {\tt NIL}
                                           else (ERROR "No such medley file" FILENAME]
         (T (OR (DIRECTORYNAME (CONCAT (MEDLEYDIR)
                                            DIRNAME ">")
                         NIL OUTPUT)
                 (if NOERROR
                   else (ERROR "No such medley directory" DIRNAME])
(MEDLEYSUBSTDIR
  [LAMBDA (OLD NEW BODY)
                                                                          : Edited 18-Oct-2022 18:06 by Imm: assumes OLD is upper case
        (NULL BODY)
          THEN NIL
       ELSEIF (LISTP BODY)
THEN (LET [(A (MEDLEYSUBSTDIR OLD NEW (CAR BODY)))
(D (MEDLEYSUBSTDIR OLD NEW (CDR BODY)
                          (AND (EQ A (CAR BODY))
(EQ D (CDR BODY)))
                           THEN BODY
                         ELSE (CONS A D)))
       ELSEIF (STRINGP BODY)
THEN (IF (EQ 1 (STRPOS OLD (U-CASE BODY)
                                    1))
                     THEN [CONCAT NEW (SUBSTRING BODY (ADD1 (NCHARS OLD]
                   ELSE BODY)
       ELSEIF [AND (LITATOM BODY)
                      (EQ 1 (STRPOS OLD (U-CASE (MKSTRING BODY]
          THEN [PACK* NEW (SUBSTRING BODY (ADD1 (NCHARS OLD]
       ELSE BODY])
(RPAQ? MEDLEYDIR )
(RPAQ? \SAVE.MEDLEYDIR )
(ADDTOVAR AROUNDEXITFNS MEDLEY-INIT-VARS)
;; **WARNING** The EVALed expressions get run early in the lodup.
(RPAQQ MEDLEY-INIT-VARS
         ([LISPUSERSDIRECTORIES (MEDLEYDIR '("library" "lispusers" "internal" "greetfiles" "doctools"] [LISPSOURCEDIRECTORIES (MEDLEYDIR '("sources"]
          (LISPSOURCEDIRECTORY (CAR LISPSOURCEDIRECTORIES))
(IRM.HOST&DIR (MEDLEYDIR '"docs/dinfo"))
          (IRM.DINFOGRAPH)
          (DIRECTORIES (APPEND LISPUSERSDIRECTORIES LISPSOURCEDIRECTORIES))
          [LOGINHOST/DIR (DIRECTORYNAME (OR (UNIX-GETENV "LOGINDIR") (UNIX-GETENV "HOME"]
```

(ADDTOVAR GLOBALVARS MEDLEYDIR MEDLEY-INIT-VARS \SAVE.MEDLEYDIR DIRECTORIES)

## 

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