

File created: 31-Oct-2022 13:09:14 {WMEDLEY}<library>SAMEDIR.;4

changes to: (FNS CHECKSAMEDIR HOST&DIRECTORYFIELD)

previous date: 25-Apr-2022 09:23:16 {WMEDLEY}<library>SAMEDIR.;3

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

::
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(RPAQQ **SAMEDIRCOMS**

```
((FNS CHECKSAMEDIR HOST&DIRECTORYFIELD)
 (INITVARS (SAMEDIRWAIT 10)
  (SAMEDIRDEFAULT 'O))
 (ADDVARS [MAKEFILEFORMS (OR (NLSETQ (CHECKSAMEDIR FILE))
  (RETFROM 'MAKEFILE]
  (MIGRATIONS))
 (GLOBALVARS MIGRATIONS)))
```

(DEFINEQ

(**CHECKSAMEDIR**

[LAMBDA (FILE)

; Edited 31-Oct-2022 13:08 by rmk

; Edited 25-Apr-2022 09:16 by rmk

; Edited 1-Sep-2020 11:40 by rmk:

:: Check (a) that we are writing FILE to the same directory we last read/wrote it and (b) that a version newer than the current one has not since appeared.

:: OKHOST/DIRS is a list of places it's OK for the file to be winding up, so if your'e migrating code from one place ot another, you can do it gracefully.

```
[RESETSAVE (DIRECTORYNAME T)
 ' (PROGN (CNDIR OLDVALUE)
 (PROG ( (*UPPER-CASE-FILE-NAMES* NIL)
  (DATES (GET (SETQ FILE (ROOTFILENAME FILE))
  'FILEDATES))
  HOST/DIR HOST DIR NEWV OKHOST/DIRS)
```

; Assumes that MAKEFILE has RESETLST

```
AGAIN
 (OR (LISTP DATES)
  (RETURN))
```

; RMK: Use HOST&DIRECTORYFIELD to canonicalize both file
; and connected directory

```
[SETQ OKHOST/DIRS (CONS (SETQ HOST/DIR (HOST&DIRECTORYFIELD (DIRECTORYNAME T)))
 (MKLIST (CDR (OR (ASSOC HOST/DIR MIGRATIONS :TEST 'STRING-EQUAL)
  (ASSOC (TRUEFILENAME HOST/DIR)
  MIGRATIONS :TEST 'STRING-EQUAL)
  (ASSOC (PSEUDOFILNAME HOST/DIR)
  MIGRATIONS :TEST 'STRING-EQUAL)
```

```
(COND
 ([for OLDFILE in DATES bind HOST DIR never (OR (CL:MEMBER (HOST&DIRECTORYFIELD (CDR OLDFILE))
  OKHOST/DIRS :TEST 'STRING-EQUAL)
 (CL:MEMBER (TRUEFILENAME (HOST&DIRECTORYFIELD
  (CDR OLDFILE)))
  OKHOST/DIRS :TEST 'STRING-EQUAL)
 (CL:MEMBER (PSEUDOFILNAME (HOST&DIRECTORYFIELD
  (CDR OLDFILE)))
  OKHOST/DIRS :TEST 'STRING-EQUAL]
```

:: The file is going somewhere it has never been before.

:: Check that that is really what the user wants.

```
(SELECTQ (ASKUSER SAMEDIRWAIT SAMEDIRDEFAULT (LIST "You haven't loaded or written" FILE "in your
  connected directory" HOST/DIR "-- write it out
  anyway")
```

```
 '[O ,(CONCAT "Oops! Make file on " (SETQ HOST/DIR (HOST&DIRECTORYFIELD
  (CDAR DATES]
```

```
 (C "Make file on other directory: ")
```

```
 (Y ,(CONCAT "Yes, write it here")
```

```
 (CHARACTER (CHARCODE EOL)))
```

```
 (N ,(CONCAT "No, abort MAKEFILE")
```

```
 (CHARACTER (CHARCODE EOL]
```

```
 NIL NIL ' (NOECHOFLG T))
```

```
 (Y (RETURN))
```

```
 (N (ERROR!))
```

```
 (C (SETQ HOST/DIR))
```

```
 (O (TERPRI T))
```

```
 (SHOULDNT))
```

```
 [NLSETQ (CNDIR (OR HOST/DIR (READ T T]
```

```
 (GO AGAIN))
```

```
 ([AND [SETQ NEWV (INFILEP (PACKFILENAME.STRING 'VERSION NIL 'BODY (CDAR DATES]
```

```
 (NOT (STRING-EQUAL NEWV (CDAR DATES]
```

:: A newer version appeared while the user was editing this file.

:: Ask if he should over-write it.

```
(SELECTQ (ASKUSER 15 'Y (LIST (CDAR DATES)
                                "is not the most recent version (version"
                                (FILENAMEFIELD.STRING NEWV 'VERSION)
                                "has since appeared)." "Do you want to make the file anyway"))
  (Y)
  (N (ERROR!))
  (SHOULDNT]))
```

(HOST&DIRECTORYFIELD

[LAMBDA (FILENAME)

; Edited 31-Oct-2022 13:03 by rmk
; Edited 25-Apr-2022 09:22 by rmk
; Edited 15-Apr-2018 19:05 by rmk:

```
(PACKFILENAME.STRING 'DEVICE (U-CASE (FILENAMEFIELD.STRING FILENAME 'DEVICE))
  'HOST
  (U-CASE (FILENAMEFIELD.STRING FILENAME 'HOST))
  'DIRECTORY
  (FILENAMEFIELD.STRING FILENAME 'DIRECTORY])
```

)

(RPAQ? SAMEDIRWAIT 10)

(RPAQ? SAMEDIRDEFAULT 'O)

(ADDTOVAR MAKEFILEFORMS (OR (NLSETQ (CHECKSAMEDIR FILE))
 (RETFROM 'MAKEFILE)))

(ADDTOVAR MIGRATIONS)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS MIGRATIONS)

)

(PUTPROPS SAMEDIR COPYRIGHT ("Venue & Xerox Corporation" 1982 1984 1985 1986 1987 1990 2018 2020))

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VARIABLE INDEX

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