

File created: 17-Mar-2022 12:13:30 {DSK}<Users>kaplan>Local>medley3.5>my-medley>sources>SPELLFILE.;5

changes to: (FNS SPELLFILE FINDFILE)

previous date: 16-Mar-2022 20:02:22 {DSK}<Users>kaplan>Local>medley3.5>my-medley>sources>SPELLFILE.;2

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

::
:: Copyright (c) 1986, 1990, 1992 by Venue & Xerox Corporation.

```
(RPAQQ SPELLFILECOMS
  ((* "File name spelling correction")
    (FNS FINDFILE SPELLFILE SPELLFILE.MATCHINGDIRS SPELLFILE.SPELL SPELLFILE.SPELL1 SPELLFILE1 SPELLFILEDIR)
    (GLOBALVARS USERNAME)
    (INITVARS (NOFILESPELLFLG T))
    [DECLARE%: DONTEVAL@LOAD DOCOPY (ADDVARS (ERRORTYPE1ST (23 (SPELLFILE (CADR ERRORMESS)
                                                                NIL NOFILESPELLFLG]
    (ADDVARS (DIRECTORIES))))])
```

:: File name spelling correction

(DEFINEQ

(FINDFILE

[LAMBDA (FILE NSFLG DIRLIST)

; Edited 14-Mar-91 21:54 by bvm

:: If file has an explicit directory on it and that file exists, don't fool around with the directory packing in SPELLFILE, simply return.

```
(COND
  ((AND (OR (NULL DIRLIST)
            (UNPACKFILENAME.STRING FILE 'DIRECTORY))
        (INFILEP FILE)))
  (T (SPELLFILE FILE T NSFLG DIRLIST]))
```

(SPELLFILE

[LAMBDA (FILE NOPRINTFLG NSFLG DIRLIST)

:: Edited 17-Mar-2022 12:13 by rmk: added FINDFILE-WITH-EXTENSIONS at the top, for FILE-NOT-FOUND and FINDFILE

:: Edited 27-Nov-90 14:13 by nm

```
(DECLARE (SPECVARS NAME EXTENSION VERSION SPELLVAL DIRHOSTS HOST)
  (GLOBALVARS \FILEDEVICENAMES))
```

:: This does the FOO to FOO>FOO correction, with only directory scanning and no other transformations.

```
(OR (FINDFILE-WITH-EXTENSIONS FILE DIRLIST)
  (PROG (SPELLVAL VAL DIRHOSTS HOST DEVICE DIRECTORY RELATIVEDIRECTORY SUBDIRECTORY NAME EXTENSION VERSION
        FILEDATES (FIELDS (UNPACKFILENAME.STRING FILE))
        (DIRS (OR DIRLIST DIRECTORIES))
        (APPFLG 'MUST-APPROVE)
        (NSFLG (OR NSFLG NOSPELLFLG (NULL DWIMFLG)))
        (ROOTNAME FILE)
        (NAMESUBDIR))
    (OR FILE (RETURN))
  FLDLP
  (COND
    (FIELDS (SELECTQ (CAR FIELDS)
                     (NAME (SETQ NAME (CADR FIELDS)))
                     (VERSION (SETQ VERSION (CADR FIELDS)))
                     (EXTENSION (SETQ EXTENSION (CADR FIELDS)))
                     (DIRECTORY (SETQ DIRECTORY (CADR FIELDS)))
                     (RELATIVEDIRECTORY
                      (SETQ RELATIVEDIRECTORY (CADR FIELDS)))
                     (SUBDIRECTORY (SETQ SUBDIRECTORY (CADR FIELDS)))
                     (HOST (SETQ HOST (CADR FIELDS)))
                     (DEVICE
                      ;; Pseudo-devices FOO: can be used to denote a list of directories
                      (OR [AND (NULL DEVICE)
                              (NULL DIRECTORY)
                              (SETQ DIRS (GETPROP (SETQ DEVICE (CADR FIELDS))
                                                    'DIRECTORIES]
                      (RETURN)))
                     (RETURN))
    (SETQ FIELDS (CDDR FIELDS))
    (GO FLDLP)))
  [AND HOST (COND
    ((HOSTNAMEP HOST))
    ([AND (NOT NSFLG)
          (SETQ HOST (FIXSPELL HOST NIL \FILEDEVICENAMES 'NO-MESSAGE)
          (AND (SETQ VAL (INFILEP (PACKFILENAME.STRING 'HOST HOST 'BODY FILE)))
              (GO RET)))
    (T
      ; It is pointless to go on if we don't have a valid host.
```

```

(RETURN NIL)

[COND
  ((OR HOST DEVICE DIRECTORY RELATIVEDIRECTORY SUBDIRECTORY VERSION)
   ;; ROOTNAME is what fixspell gets called on. important that extra characters get stripped out so that spelling corrector metric is
   ;; applied to what is really being corrected, otherwise, e.g. with directory supplied, any two short names will match
   (SETQ ROOTNAME (MKATOM (PACKFILENAME 'NAME NAME 'EXTENSION EXTENSION))
  [COND
    ([AND (NEQ ROOTNAME FILE)
          (NULL DIRLIST)
          (SETQ FILEDATES (GETPROP ROOTNAME 'FILEDATES))
          (SETQ SPELLVAL (OR (INFILEP ROOTNAME)
                             (AND VERSION (OR DIRECTORY HOST)
                                     (INFILEP (PACKFILENAME.STRING 'DIRECTORY DIRECTORY
                                     'RELATIVEDIRECTORY RELATIVEDIRECTORY
                                     'SUBDIRECTORY SUBDIRECTORY 'HOST HOST
                                     'NAME NAME 'EXTENSION EXTENSION))
          (COND
            ((for x in FILEDATES thereis (AND (OR (EQ (CDR X)
                                                    SPELLVAL)
                                                    (EQ (CDR X)
                                                    FILE)))
             (STREQUAL (CAR X)
                       (FILEDATE SPELLVAL)

            ;; attacks problem where somebody wants a specific file, e.g. makefile wants the source, the file is around, but with a
            ;; different version number, e.g. was ftped from maxc, and user didnt load from symbolic but instead just started editing with
            ;; compiled file having been loaded. This is a rare case; users should LOADFROM! Also, since we don't know where this
            ;; fully-qualified name came from, we must ask for correction.

            (SETQ VAL SPELLVAL) ; works by looking to see if latest version of rootname in fact has
                                ; same filedate as requested file.

            (GO RET)

          [COND
            [DIRECTORY (COND
                        ((DIRECTORYNAMEP DIRECTORY HOST) ; User supplied directory is valid
                         (GO SPELLNAME)))

            ;; Try to spelling correct directory with hostname stripped off for spelling metric. If HOST, then only consider directories
            ;; on that host. Otherwise, keep a list of the hosts associated with the host-free directories.

            (COND
              ([AND (NOT NSFLG)
                    (SETQ DIRS (SPELLFILE.MATCHINGDIRS DIRS HOST))
                    (SETQ VAL (FIXSPELL DIRECTORY NIL DIRS 'NO-MESSAGE NIL
                                     (FUNCTION (LAMBDA (DIR)
                                                 ; Check file only for directories that are close enough
                                                 (AND (SETQ DIR (SPELLFILEDIR DIR))
                                                       (RETFROM 'FIXSPELL DIR)

                                                 (GO RET))
                                                 (T (RETURN)

              ((FINDFILE-WITH-EXTENSIONS))
            (T ;; Here if directory wasn't specified in the filename. Search only directories on DIRS which match HOST, if specified.

              (for DIR in DIRS when [PROGN (SELECTQ DIR
                                                    ((NIL T)
                                                     (SETQ DIR (DIRECTORYNAME DIR T)))
                                                    NIL)
                (AND [OR (NULL HOST)
                        (STREQUAL HOST (LISTGET (UNPACKFILENAME.STRING DIR)
                                                  'HOST]
                  (SETQ VAL (INFILEP (PACKFILENAME.STRING 'DIRECTORY DIR
                                                  'RELATIVEDIRECTORY
                                                  RELATIVEDIRECTORY 'SUBDIRECTORY
                                                  SUBDIRECTORY 'NAME NAME
                                                  'EXTENSION EXTENSION 'VERSION
                                                  VERSION]

              do [SETQ APPFLG (COND
                            (NOPRINTFLG 'NO-MESSAGE)
                            (T 'NEEDNOTAPPROVE]

              (GO RET)

            (COND
              ([AND (NULL DIRLIST)
                    [LISTP (SETQ VAL (GETPROP FILE 'FILEDATES)
                    (FMEMB [CDR (LISTP (CAR (LISTP (GETPROP FILE 'FILE)
                                                  ' (LOADFNS T))
                    (LITATOM (CDAR VAL))
                    (SETQ VAL (INFILEP (PACKFILENAME.STRING 'VERSION NIL 'BODY (CDAR VAL)
                    [SETQ APPFLG (COND
                            (NOPRINTFLG 'NO-MESSAGE)
                            (T 'NEEDNOTAPPROVE]

              (GO RET)))

            SPELLNAME
            (COND
              ([OR NSFLG (NOT (SETQ VAL (SPELLFILE.SPELL HOST DIRECTORY NAME EXTENSION VERSION ROOTNAME
                                                          RELATIVEDIRECTORY SUBDIRECTORY]

              (RETURN)))

            ;; SPELLFILE1 and hence FIXSPELL return name without host/directory, since matching against ROOTNAME; hence, the packfilename
            ;; below

```



```

    (RETURN)))
    (for FIELDS on (UNPACKFILENAME.STRING FL) by (CDDR FIELDS) do
      ; Ignore host and directory, assuming we only generate
      ; appropriate ones.
      (SELECTQ (CAR FIELDS)
        (NAME (SETQ NAME1 (CADR FIELDS)))
        (EXTENSION (SETQ EXT1 (CADR FIELDS)))
        (VERSION (SETQ VERS#1 (CADR FIELDS)))
        NIL) )
  )
  )

[COND
  ([OR (NOT VERSION)
    (AND VERS#1 (EQ VERSION (MKATOM VERS#1)) ; Skip if versions mismatch, so fixspell only works on names
    (RETURN (PACKFILENAME.STRING 'NAME NAME1 'EXTENSION EXT1]
    (SETQ NAME1 (SETQ EXT1 (SETQ VERS#1 NIL)))
    (GO LP)])

```

(SPELLFILEDIR

[LAMBDA (DIR)

(* rmk%: "13-NOV-81 22:13")

(* If HOST, returns fullname of file on {HOST}DIR, otherwise searches the hosts associated with DIR for the first one with file.)

```

(DECLARE (USEDFREE HOST DIRHOSTS NAME EXTENSION VERSION))
(COND
  (HOST (INFILEP (PACKFILENAME 'HOST HOST 'DIRECTORY DIR 'NAME NAME 'EXTENSION EXTENSION 'VERSION VERSION))
  )
  (T (for H in (OR (CDR (FASSOC DIR DIRHOSTS))
    ' (NIL))
    when (SETQ H (INFILEP (PACKFILENAME 'HOST H 'DIRECTORY DIR 'NAME NAME 'EXTENSION EXTENSION
      'VERSION VERSION)))
    do (RETURN H))
  )
)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS USERNAME)
)

(RPAQ? NOFILESPELLFLG T)

(DECLARE%: DONTVAL@LOAD DOCOPY

(ADDTOVAR ERRORYPELST (23 (SPELLFILE (CADR ERRORMESS)
  NIL NOFILESPELLFLG)))
)

(ADDTOVAR DIRECTORIES )

(PUTPROPS SPELLFILE COPYRIGHT ("Venue & Xerox Corporation" 1986 1990 1992))

```

FUNCTION INDEX

FINDFILE	1	SPELLFILE.MATCHINGDIRS ..	3	SPELLFILE.SPELL1	3	SPELLFILEDIR	4
SPELLFILE	1	SPELLFILE.SPELL	3	SPELLFILE1	3		

VARIABLE INDEX

DIRECTORIES	4	ERRORTYPELST	4	NOFILESPELLFLG	4
-------------------	---	--------------------	---	----------------------	---
