

File created: 27-Jan-2025 08:49:34 {WMEDLEY}<lispusers>VERSIONDEFS.;12

edit by: rmk

changes to: (FNS GETVINFO)

previous date: 12-Dec-2024 15:07:45 {WMEDLEY}<lispusers>VERSIONDEFS.;11

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

```
(RPAQQ VERSIONDEFSCOMS [(FNS FINDFILEVERSION GETVINFO VERSIONP)
                        (FNS EDV DFV)
                        (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVAR (ADDVARS (NLAMA DFV EDV)
                                                                                          (NLAML)
                                                                                          (LAMA)))]
```

(DEFINEQ

(**FINDFILEVERSION**

```
[LAMBDA (FILE VERSION DIRLIST NOERROR) ; Edited 6-Dec-2024 22:12 by rmk
                                           ; Edited 1-Dec-2024 23:01 by rmk
                                           ; Edited 4-Oct-2024 15:23 by rmk
```

:: Returns the version of FILE in DIRLIST that correspond to the relative version specifier VERSION. Negative version count backwrd from the
:: newest (= -1), positive count forward from the oldest (= 1). F, FIRST, OLDEST are equivalent to 1 (= oldest), N NEWEST are equivalent to -1
:: (newest).

```
(LET (FILES)
      (SETQ VERSION (VERSIONP VERSION))
      (if (EQ VERSION -1)
          then (FINDFILE FILE T DIRLIST)
          elseif [SETQ FILES (FILDIR (PACKFILENAME 'VERSION '* 'BODY (FINDFILE FILE T DIRLIST)
          then (CAR (if (ILESSP VERSION 0)
                       then ; -2 is the second newest version
                           (NTH FILES (IMINUS VERSION))
                       else ; 2 is the second oldest
                           (NTH (DREVERSE FILES)
                               VERSION)))
          elseif (NOT NOERROR)
          then (ERROR (CONCAT "Version " VERSION " of " FILE " not found"))
```

(**GETVINFO**

```
[LAMBDA (NAME TYPE FILE VERSION DIRLIST) ; Edited 27-Jan-2025 08:49 by rmk
                                           ; Edited 6-Dec-2024 21:37 by rmk
                                           ; Edited 1-Dec-2024 23:50 by rmk
```

:: Gets the TYPE definition of NAME from version VERSION of FILE, returns the definition after storing it under an annotated name that the filepkg
:: doesn't see.

```
(if (VERSIONP TYPE)
    then (SETQ VERSION TYPE)
         (SETQ TYPE NIL)
    elseif (VERSIONP FILE)
    then (SETQ VERSION FILE)
         (SETQ FILE NIL)
(CL:UNLESS [OR FILE (SETQ FILE (CAR (WHEREIS NAME TYPE T)
 (ERROR (CONCAT "File for " NAME " not found")))]
(CL:UNLESS VERSION
 (SETQ VERSION 'NEWEST))
(LET ((VFILE (FINDFILEVERSION FILE VERSION DIRLIST))
      (CONNECTED (DIRECTORYNAME T T))
      DEF VNAME HOST DIR) ; Don't include the whole path if it's the connected one. Perhaps
                           ; we should create/return both a short name and a long name

      (SETQ DEF (GETDEF NAME TYPE VFILE))
      (SETQ HOST (FILENAMEFIELD VFILE 'HOST))
      (SETQ DIR (FILENAMEFIELD VFILE 'DIRECTORY))
      (CL:WHEN (STRING.EQUAL HOST (FILENAMEFIELD CONNECTED 'HOST))
        (SETQ HOST NIL))
      (CL:WHEN (STRING.EQUAL DIR (FILENAMEFIELD CONNECTED 'DIRECTORY))
        (SETQ DIR NIL))
      (SETQ VNAME (PACK* (CL:IF HOST
                             (CONCAT "{" HOST "}")
                             ""))
                  (CL:IF DIR
                             (CONCAT "<" (L-CASE DIR)
                                       ">")
                             ""))
      NAME ";" (FILENAMEFIELD VFILE 'VERSION)
      (SELECTQ VERSION
        (1 " (F) ")
        (-1 " (N) ")
        ""))
(LIST VNAME TYPE DEF])
```

(VERSIONP

[LAMBDA (X)

; Edited 6-Dec-2024 20:26 by rmk

;; Normalize X if X is a version designator, otherwise NIL

(SELECTQ X
((F FIRST OLDEST)
1)
((N NEWEST 0)
-1)
(FIXP X])

)

(DEFINEQ

(EDV

[NLAMBDA ARGS

; Edited 6-Dec-2024 21:30 by rmk
; Edited 2-Dec-2024 00:14 by rmk

(SETQ ARGS (MKLIST ARGS))
(PROG ((NAME (POP ARGS))
(TYPE (POP ARGS))
(FILE (POP ARGS))
(VERSION (POP ARGS))
(DIRLIST (POP ARGS))
VINFO)
(SETQ VINFO (GETVINFO NAME TYPE FILE VERSION DIRLIST))
(EDITE (CADDR VINFO)
NIL
(CAR VINFO)
(CADR VINFO)
NIL
' (:DONTWAIT))
(CAR VINFO])

(DFV

[NLAMBDA ARGS

; Edited 6-Dec-2024 21:29 by rmk
; Edited 2-Dec-2024 00:08 by rmk

(SETQ ARGS (MKLIST ARGS))
(APPLY (FUNCTION EDV)
(LIST (POP ARGS)
NIL
(POP ARGS)
(POP ARGS)
(POP ARGS])

)

(DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVAR

(ADDTOVAR **NLAMA** DFV EDV)

(ADDTOVAR **NLAML**)

(ADDTOVAR **LAMA**)

)

FUNCTION INDEX

DFV2 EDV2 FINDFILEVERSION ...1 GETVINFO1 VERSIONP2
