

File created: 12-Mar-85 14:02:50 {ERIS}<LISPCORE>LIBRARY>FILENAMES.;1

changes to: (VARS FILENAMESCOMS)

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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(RPAQQ FILENAMESCOMS ((FNS REPACKFILENAME.STRING REPACKFILENAME.STRING.D REPACKFILENAME.STRING.LISPM
REPACKFILENAME.STRING.TOPS20 REPACKFILENAME.STRING.UNIX)))

(DEFINEQ

(REPACKFILENAME.STRING

[LAMBDA (NAME FOROSTYPE)
(LET ((NAMELIST (UNPACKFILENAME.STRING NAME)))
(SELECTQ FOROSTYPE
(UNIX (REPACKFILENAME.STRING.UNIX NAMELIST))
((TOPS20 TOPS-20)
(REPACKFILENAME.STRING.TOPS20 NAMELIST))
((LISPM 3600 SYMBOLICS)
(REPACKFILENAME.STRING.LISPM NAMELIST))
((D IFS)
(REPACKFILENAME.STRING.D NAMELIST))
NAME]))

(* edited: "12-Mar-85 13:51")

(REPACKFILENAME.STRING.D

[LAMBDA N

(* ejs: "9-Mar-85 16:02")

(* * Convert file names to native format)

(if (AND (EQ N 1)
(LISTP (ARG N 1)))

then

(APPLY (FUNCTION REPACKFILENAME.STRING.D)
(ARG N 1))

(* spread argument list)

else (PROG ((BLIP "")
(I 1)

HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION PACKLIST VAR VAL TEMP)
(DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION))

LP (COND

((NOT (IGREATERP I N))
(COND
((LISTP (SETQ VAR (ARG N I)))
(SETQ VAL (CDR VAR))
(SETQ VAR (CAR VAR))
((NOT (IGREATERP (SETQ I (ADD1 I))
N))
(SETQ VAL (ARG N I)))
(T (SETQ VAL)))
(OR (STRINGP VAL)
(ATOM VAL)
(ERRORX (LIST 27 VAL)))

(* fields must be atom)

(SELECTQ VAR

(BODY (MAP (UNPACKFILENAME.STRING (COND
(LISTP VAL)
(* PACKFILENAME.STRING for error checking of fields)
(REPACKFILENAME.STRING.D VAL))
(T VAL)))
(FUNCTION (LAMBDA (X)
(OR (EVALV (CAR X))
(SET (CAR X)
(OR (CADR X)
BLIP])
(FUNCTION CDDR)))
(HOST (OR HOST (SETQ HOST (if VAL
then (SELCHARQ (CHCON1 VAL)
(({ % [% (
(SUBSTRING VAL 2 (SELCHARQ (NTHCHARCODE
VAL -1)
({ %] %)
-2)
-1)))
VAL)
else BLIP))))

(DIRECTORY

(* DIRECTORY really is treated as {Host}device:<directory>)

(for X on (UNPACKFILENAME.STRING VAL NIL T) by (CDDR X)
do (OR (EVALV (CAR X))
(SET (CAR X)
(OR (CADR X)
BLIP]))
(DEVICE HOST NAME EXTENSION VERSION)

```

    (OR (EVALV VAR)
        (SET VAR (OR VAL BLIP))))
    (\ILLEGAL.ARG VAR))
  (SETQ I (ADD1 I))
  (GO LP)))
(RETURN (CONCATLIST (NCONC (AND HOST (NEQ HOST BLIP)
    (LIST "{" HOST "}"))
    [AND DEVICE (NEQ DEVICE BLIP)
      (SELCHARQ (NTHCHARCODE DEVICE -1)
        (: (LIST DEVICE)))
      (LIST DEVICE (QUOTE :])
    (AND DIRECTORY (NEQ DIRECTORY BLIP)
      (PROGN (SETQ DIRECTORY (CONCAT DIRECTORY))
        [for C from 1 to (NCHARS DIRECTORY)
          do (COND
            ([FMEMB (NTHCHARCODE DIRECTORY C)
              (CONSTANT (LIST (CHARCODE %.]
                (RPLCHARCODE DIRECTORY C (CHARCODE >]
            (LIST "<" DIRECTORY ">"))))
    (AND NAME (NEQ NAME BLIP)
      (LIST NAME))
    (AND (OR (AND EXTENSION (NEQ EXTENSION BLIP))
      (AND VERSION (NEQ VERSION BLIP)))
      (LIST (COND
        ((AND EXTENSION (EQ (CHCON1 EXTENSION)
          (CHARCODE %..))
          BLIP)
          (T (QUOTE %..)))
          (OR EXTENSION BLIP))))
    (AND VERSION (NEQ VERSION BLIP)
      (COND
        ((FIXP VERSION)
          (LIST (QUOTE ;)
            VERSION))
          (T (SELCHARQ (CHCON1 VERSION)
            (; (LIST VERSION))
            (%. !)
            (LIST (QUOTE ;)
              (SUBSTRING VERSION 2 -1)))
          (LIST (QUOTE ;)
            VERSION])

```

(REPACKFILENAME.STRING.LISPM

[LAMBDA N

(* ejs: "23-Feb-85 17:19")

(* * Can you believe this???)

```
(if (AND (EQ N 1)
  (LISTP (ARG N 1)))
  then
```

(* spread argument list)

```
(APPLY (FUNCTION REPACKFILENAME.STRING.LISPM)
  (ARG N 1))
else (PROG ((BLIP "")
  (I 1)
```

```
  HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION PACKLIST VAR VAL TEMP)
  (DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION))
  LP (COND
```

```
    ((NOT (IGREATERP I N))
      (COND
```

```
        ((LISTP (SETQ VAR (ARG N I)))
          (SETQ VAL (CDR VAR))
          (SETQ VAR (CAR VAR)))
        ((NOT (IGREATERP (SETQ I (ADD1 I))
          N))
          (SETQ VAL (ARG N I)))
        (T (SETQ VAL)))
    (OR (STRINGP VAL)
      (ATOM VAL)
      (ERRORX (LIST 27 VAL)))
    (SELECTQ VAR
      (BODY (MAP (UNPACKFILENAME.STRING (COND
        ((LISTP VAL)
          (* PACKFILENAME.STRING for error checking of fields)
          (REPACKFILENAME.STRING.LISPM VAL))
        (T VAL)))
        [FUNCTION (LAMBDA (X)
          (* NIL => not yet seen, BLIP => seen as NIL.)
          (OR (EVALV (CAR X))
            (SET (CAR X)
              (OR (CADR X)
                BLIP]
          (FUNCTION CDDR)))
      (HOST (OR HOST (SETQ HOST (if VAL
```

(* fields must be atom)

```
        then (SELCHARQ (CHCON1 VAL)
          (({ %[ %()
            (SUBSTRING VAL 2 (SELCHARQ (NTHCHARCODE
              VAL -1)
```

(* NIL => not yet seen, BLIP => seen as NIL.)

```
(OR (EVALV (CAR X))
  (SET (CAR X)
    (OR (CADR X)
      BLIP]
  (FUNCTION CDDR)))
  (HOST (OR HOST (SETQ HOST (if VAL
```

```

    then (SELCHARQ (CHCON1 VAL)
      (({ %[ %()
        (SUBSTRING VAL 2 (SELCHARQ (NTHCHARCODE
          VAL -1)
```



```

(T VAL)))
[FUNCTION (LAMBDA (X) (* NIL => not yet seen, BLIP => seen as NIL.)
  (OR (EVALV (CAR X))
    (SET (CAR X)
      (OR (CADR X)
        BLIP]
  (FUNCTION CDDR)))
(HOST (OR HOST (SETQ HOST (if VAL
  then (SELCHARQ (CHCON1 VAL)
    (({ %[ %()
      (SUBSTRING VAL 2 (SELCHARQ (NTHCHARCODE
        VAL -1)
          ({} %] %))
            -2)
              -1)))
        VAL)
    else BLIP))))
(DIRECTORY (* DIRECTORY really is treated as {Host}device:<directory>)
[for X on (UNPACKFILENAME.STRING VAL NIL T) by (CDDR X)
  do (OR (EVALV (CAR X))
    (SET (CAR X)
      (OR (CADR X)
        BLIP])
    ((DEVICE HOST NAME EXTENSION VERSION TEMPORARY)
      (OR (EVALV VAR)
        (SET VAR (OR VAL BLIP))))
    (\ILLEGAL.ARG VAR))
  (SETQ I (ADD1 I))
  (GO LP)))
(SELECTQ TEMPORARY
  ((T S ;S) (* hack for Interlisp-D!)
    (OR HOST DEVICE (PROGN (SETQ HOST (QUOTE CORE))
      (SETQ TEMPORARY))))
  NIL)
(RETURN (CONCATLIST (NCONC (AND HOST (NEQ HOST BLIP)
  (LIST {" HOST "}))
  [AND DEVICE (NEQ DEVICE BLIP)
    (SELCHARQ (NTHCHARCODE DEVICE -1)
      (: (LIST DEVICE))
        (LIST DEVICE (QUOTE :])
  (AND DIRECTORY (NEQ DIRECTORY BLIP)
    (PROGN (SETQ DIRECTORY (CONCAT DIRECTORY))
      [for C from 1 to (NCHARS DIRECTORY)
        do (COND
          ([FMEMB (NTHCHARCODE DIRECTORY C)
            (CONSTANT (LIST (CHARCODE /)
              (CHARCODE >])
            (RPLCHARCODE DIRECTORY C (CHARCODE %.)]
            (LIST "<" DIRECTORY ">"))))
  (AND NAME (NEQ NAME BLIP)
    (LIST NAME))
  (AND (OR (AND EXTENSION (NEQ EXTENSION BLIP))
    (AND VERSION (NEQ VERSION BLIP)))
    (LIST (COND
      ((AND EXTENSION (EQ (CHCON1 EXTENSION)
        (CHARCODE %.)))
        BLIP)
      (T (QUOTE %.)
        (OR EXTENSION BLIP))))
  [AND VERSION (NEQ VERSION BLIP)
    (COND
      ((FIXP VERSION)
        (LIST (QUOTE %.)
          VERSION))
      (T (SELCHARQ (CHCON1 VERSION)
        (; (LIST VERSION))
          (%. !)
            (LIST (QUOTE %.)
              (SUBSTRING VERSION 2 -1))))
        (LIST (QUOTE %.)
          VERSION])
  (AND TEMPORARY (NEQ TEMPORARY BLIP)
    (LIST (QUOTE ;)
      (SELECTQ TEMPORARY
        ((S ;S)
          (QUOTE S))
        T]))

```

(REPACKFILENAME.STRING.UNIX

```

[LAMBDA N (* ejs: "23-Feb-85 17:20")
  (if (AND (EQ N 1)
    (LISTP (ARG N 1)))
    then (* spread argument list)
      (APPLY (FUNCTION REPACKFILENAME.STRING.UNIX)
        (ARG N 1))
    else (PROG ((BLIP ""))

```

```

(I 1)
HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION PACKLIST VAR VAL TEMP)
(DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION))
LP (COND
  ((NOT (IGREATERP I N))
    (COND
      ((LISTP (SETQ VAR (ARG N I)))
        (SETQ VAL (CDR VAR))
        (SETQ VAR (CAR VAR)))
      ((NOT (IGREATERP (SETQ I (ADD1 I))
        N))
        (SETQ VAL (ARG N I)))
      (T (SETQ VAL)))
    (OR (STRINGP VAL)
      (ATOM VAL)
      (ERRORX (LIST 27 VAL))) (* fields must be atom)
    (SELECTQ VAR
      (BODY (MAP (UNPACKFILENAME.STRING (COND
        ((LISTP VAL)
          (* PACKFILENAME.STRING for error checking of fields)
          (REPACKFILENAME.STRING.UNIX VAL))
        (T VAL)))
        [FUNCTION (LAMBDA (X) (* NIL => not yet seen, BLIP => seen as NIL.)
          (OR (EVALV (CAR X))
            (SET (CAR X)
              (OR (CADR X)
                BLIP])
          (FUNCTION CDDR)))
        (HOST (OR HOST (SETQ HOST (if VAL
          then (SELCHARQ (CHCON1 VAL)
            (({ %[ %(
              (SUBSTRING VAL 2 (SELCHARQ (NTHCHARCODE
                VAL -1)
              ((} %] %))
              -2)
              -1)))
            VAL)
          else BLIP))))
      (DIRECTORY (* DIRECTORY really is treated as {Host}device:<directory>)
        [for x on (UNPACKFILENAME.STRING VAL NIL T) by (CDDR X)
          do (OR (EVALV (CAR X))
            (SET (CAR X)
              (OR (CADR X)
                BLIP]))
          ((DEVICE HOST NAME EXTENSION VERSION)
            (OR (EVALV VAR)
              (SET VAR (OR VAL BLIP))))
          (\ILLEGAL.ARG VAR))
          (SETQ I (ADD1 I))
          (GO LP)))
      (RETURN (CONCATLIST (NCONC (AND HOST (NEQ HOST BLIP)
        (LIST "{" HOST "}"))
        (AND DEVICE (NEQ DEVICE BLIP)
          (LIST "/" DEVICE))
        (AND DIRECTORY (NEQ DIRECTORY BLIP)
          (PROGN (SETQ DIRECTORY (CONCAT DIRECTORY))
            [for C from 1 to (NCHARS DIRECTORY)
              do (COND
                ([FMEMB (NTHCHARCODE DIRECTORY C)
                  (CONSTANT (LIST (CHARCODE >)
                    (CHARCODE %.]
                    (RPLCHARCODE DIRECTORY C (CHARCODE /])
                    (LIST "/" DIRECTORY "/"))
                (LIST "/" DIRECTORY "/"))
                (AND NAME (NEQ NAME BLIP)
                  (LIST NAME))
                (AND (OR (AND EXTENSION (NEQ EXTENSION BLIP))
                  (AND VERSION (NEQ VERSION BLIP)))
                  (LIST (COND
                    ((OR (AND EXTENSION (EQ (CHCON1 EXTENSION)
                      (CHARCODE %..)))
                    (OR (NULL EXTENSION)
                      (EQ EXTENSION BLIP)
                      (STREQUAL EXTENSION "")))
                    BLIP)
                    (T (QUOTE %..)))
                    (OR EXTENSION BLIP)))
                (AND VERSION (NEQ VERSION BLIP)
                  (COND
                    ((FIXP VERSION)
                      (LIST (QUOTE ;)
                        VERSION))
                    (T (SELCHARQ (CHCON1 VERSION)
                      (; (LIST VERSION))
                      (%. !))
                    (LIST (QUOTE ;)
                      (SUBSTRING VERSION 2 -1))))

```

```
(LIST (QUOTE ;)
      VERSION])
)
(RPAQQ FILENAMESCOMS [(FNS REPACKFILENAME.STRING REPACKFILENAME.STRING.D REPACKFILENAME.STRING.LISPM
                        REPACKFILENAME.STRING.TOPS20 REPACKFILENAME.STRING.UNIX)
 (DECLARE: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS
          (ADDVARS (NLAMA)
                   (NLAML)
                   (LAMA REPACKFILENAME.STRING.UNIX REPACKFILENAME.STRING.TOPS20
                        REPACKFILENAME.STRING.LISPM REPACKFILENAME.STRING.D))
 (DECLARE: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS
 (ADDTOVAR NLAMA )
 (ADDTOVAR NLAML )
 (ADDTOVAR LAMA REPACKFILENAME.STRING.UNIX REPACKFILENAME.STRING.TOPS20 REPACKFILENAME.STRING.LISPM
           REPACKFILENAME.STRING.D)
)
(PUTPROPS FILENAMES COPYRIGHT ("Xerox Corporation" 1985))
```

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