

File created: 8-Oct-90 17:23:42 {LISPDEV:LAIR:OHIO-STATE}<WELCH>TCPNAMES.;2

changes to: (VARS TCPNAMESCOMS)  
(FNS REPACKFILENAME.STRING REPACKFILENAME.STRING.D REPACKFILENAME.STRING.MSDOS  
REPACKFILENAME.STRING.TI REPACKFILENAME.STRING.VMS REPACKFILENAME.STRING.3600  
REPACKFILENAME.STRING.TOPS20 REPACKFILENAME.STRING.UNIX \REPACKFILENAME.NEW.TRANSLATION  
\REPACKFILENAME.NEW.TRANSLATIONS)

previous date: 12-Sep-90 17:37:35 {DSK}<users>gadener>medley>work>tcp>tcpnames.;2

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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```
(RPAQQ TCPNAMESCOMS
[ (PROP MAKEFILE-ENVIRONMENT TCPNAMES)
  (PROP FILETYPE TCPNAMES)
  (FNS REPACKFILENAME.STRING REPACKFILENAME.STRING.D REPACKFILENAME.STRING.MSDOS REPACKFILENAME.STRING.TI
    REPACKFILENAME.STRING.VMS REPACKFILENAME.STRING.3600 REPACKFILENAME.STRING.TOPS20
    REPACKFILENAME.STRING.UNIX \REPACKFILENAME.NEW.TRANSLATION \REPACKFILENAME.NEW.TRANSLATIONS)
  (INITVARS (\REPACKFILENAME.OSTYPE.TABLE (HASHARRAY 30 1.1)))
  (GLOBALVARS \REPACKFILENAME.OSTYPE.TABLE)
  (P (\REPACKFILENAME.NEW.TRANSLATIONS (INTERLISP IFS)
    REPACKFILENAME.STRING.D
    (TOPS-20 TOPS20)
    REPACKFILENAME.STRING.TOPS20
    (SYMBOLICS-3600 LISP GENERA)
    REPACKFILENAME.STRING.3600 VMS REPACKFILENAME.STRING.VMS UNIX REPACKFILENAME.STRING.UNIX
    MS-DOS REPACKFILENAME.STRING.MSDOS))
  (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS
    (ADDVARS (NLAMA \REPACKFILENAME.NEW.TRANSLATIONS)
      (NLAML)
      (LAMA REPACKFILENAME.STRING.UNIX REPACKFILENAME.STRING.TOPS20 REPACKFILENAME.STRING.3600
        REPACKFILENAME.STRING.VMS REPACKFILENAME.STRING.TI REPACKFILENAME.STRING.MSDOS
        REPACKFILENAME.STRING.D]))
```

```
(PUTPROPS TCPNAMES MAKEFILE-ENVIRONMENT (:PACKAGE "IL" :READTABLE "INTERLISP" :BASE 10))
```

```
(PUTPROPS TCPNAMES FILETYPE :BCOMPL)
```

```
(DEFINEQ
```

```
(REPACKFILENAME.STRING
[LAMBDA (NAME FOROSTYPE) ; Edited 29-Sep-90 11:47 by welch
  (DECLARE (GLOBALVARS \REPACKFILENAME.OSTYPE.TABLE))
  (LET ((REPACKFUNCTION (GETHASH FOROSTYPE \REPACKFILENAME.OSTYPE.TABLE)))
    (COND
      ((NULL REPACKFUNCTION)
        NAME)
      (T (APPLY REPACKFUNCTION (UNPACKFILENAME.STRING NAME))
```

```
(REPACKFILENAME.STRING.D
[LAMBDA N ; Edited 8-Oct-90 16:23 by welch
```

(\* \* 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 RELATIVEDIRECTORY SUBDIRECTORY DIR 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)
    (* 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))))
    (SUBDIRECTORY (OR SUBDIRECTORY (SETQ SUBDIRECTORY
      (if VAL
        then (CONCAT (CL:STRING-LEFT-TRIM "<" (
          CL:DIRECTORY-NAMESTRING
            *DEFAULT-PATHNAME-DEFAULTS*
          ))
        VAL)
      else BLIP))))
    (RELATIVEDIRECTORY
      (OR RELATIVEDIRECTORY (SETQ RELATIVEDIRECTORY
        (if VAL
          then (CONCAT (CL:STRING-LEFT-TRIM "<" (
            CL:DIRECTORY-NAMESTRING
              *DEFAULT-PATHNAME-DEFAULTS*
            ))
          VAL)
          else BLIP))))
    (DIRECTORY (OR DIRECTORY (SETQ DIRECTORY (OR VAL 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 ':%:]))
  (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 SUBDIRECTORY (NEQ SUBDIRECTORY BLIP)
            (PROGN (SETQ SUBDIRECTORY (CONCAT SUBDIRECTORY))
              [for C from 1 to (NCHARS SUBDIRECTORY)
                do (COND
                  ([FMEMB (NTHCHARCODE SUBDIRECTORY C)
                    (CONSTANT (CHARCODE >)
                      (LIST (CHARCODE \)
                        (CHARCODE /])
                    (RPLCHARCODE SUBDIRECTORY C (CHARCODE >])
                    (LIST "<" SUBDIRECTORY ">"))
                    (LIST "<" SUBDIRECTORY ">"))
                  (AND RELATIVEDIRECTORY (NEQ RELATIVEDIRECTORY BLIP)
                    (PROGN (SETQ RELATIVEDIRECTORY (CONCAT RELATIVEDIRECTORY))
                      [for C from 1 to (NCHARS RELATIVEDIRECTORY)
                        do (COND
                          ([FMEMB (NTHCHARCODE RELATIVEDIRECTORY C)
                            (CONSTANT (CHARCODE >)
                              (LIST (CHARCODE \)
                                (CHARCODE /])
                            (RPLCHARCODE RELATIVEDIRECTORY C (CHARCODE
                                >])
                              (LIST "<" RELATIVEDIRECTORY ">"))
                              (LIST "<" RELATIVEDIRECTORY ">"))
                          (AND NAME (NEQ NAME BLIP)

```







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(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 '%.))
    (OR EXTENSION BLIP)))
(AND VERSION (NEQ VERSION BLIP)
  (COND
    ((FIXP VERSION)
      (LIST '%# VERSION))
    (T (SELCHARQ (CHCON1 VERSION)
      (%# (LIST VERSION))
      ((%. ! ;)
        (LIST '%# (SUBSTRING VERSION 2 -1)))
      (L (LIST '%# 'OLDEST))
      (H 0)
        (LIST '%# '>))
      (LIST '%# VERSION]))

```

## (REPACKFILENAME.STRING.VMS

; Edited 8-Oct-90 16:52 by welch

```

[LAMBDA N
  (if (AND (EQ N 1)
    (LISTP (ARG N 1)))
    then
      (APPLY (FUNCTION REPACKFILENAME.STRING.VMS)
        (ARG N 1))
    else (PROG ((BLIP "")
      (I 1)
        HOST DEVICE STRUCTURE DIRECTORY RELATIVEDIRECTORY SUBDIRECTORY NAME EXTENSION VERSION TEMPORARY
        PROTECTION ACCOUNT PACKLIST VAR VAL TEMP)
      (DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY RELATIVEDIRECTORY SUBDIRECTORY NAME
        EXTENSION VERSION TEMPORARY PROTECTION ACCOUNT))
      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.VMS VAL))
              (T VAL)))
              (* NIL => not yet seen, BLIP => seen as NIL.)
              (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))))
              (SUBDIRECTORY (OR SUBDIRECTORY (SETQ SUBDIRECTORY
                (if VAL
                  then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                    CL:DIRECTORY-NAMESTRING
                    *DEFAULT-PATHNAME-DEFAULTS*
                    ))
                  else BLIP))))
              (RELATIVEDIRECTORY
                (OR RELATIVEDIRECTORY (SETQ RELATIVEDIRECTORY
                  (if VAL
                    then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                    CL:DIRECTORY-NAMESTRING

```



```

    (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.3600 VAL))
                                          (T VAL)))
                (* NIL => not yet seen, BLIP => seen as NIL.)
      [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))))
    (SUBDIRECTORY (OR SUBDIRECTORY (SETQ SUBDIRECTORY
                                          (if VAL
                                            then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                                                                 CL:DIRECTORY-NAMESTRING
                                                                 *DEFAULT-PATHNAME-DEFAULTS*
                                                                 ))
                                            VAL)
                                            else BLIP))))
    (RELATIVEDIRECTORY
      (OR RELATIVEDIRECTORY (SETQ RELATIVEDIRECTORY
                                   (if VAL
                                     then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                                                                 CL:DIRECTORY-NAMESTRING
                                                                 *DEFAULT-PATHNAME-DEFAULTS*
                                                                 ))
                                     VAL)
                                     else BLIP))))
    (DIRECTORY (OR DIRECTORY (SETQ DIRECTORY (OR VAL 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 ' %: ]
                          (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 %.)
                                                                (CHARCODE /)
                                                                (CHARCODE \)
                                                                (RPLCHARCODE DIRECTORY C (CHARCODE >]
                                                                    (LIST ">" DIRECTORY ">"))
                                    (AND SUBDIRECTORY (NEQ SUBDIRECTORY BLIP)
                                      (PROGN (SETQ SUBDIRECTORY (CONCAT SUBDIRECTORY))
                                          [for C from 1 to (NCHARS SUBDIRECTORY)
                                            do (COND
                                              ([FMEMB (NTHCHARCODE SUBDIRECTORY C)
                                                        (CONSTANT (LIST (CHARCODE /)
                                                                (CHARCODE %.)
                                                                (CHARCODE /)
                                                                (CHARCODE \)
                                                                (RPLCHARCODE SUBDIRECTORY C (CHARCODE >]
                                                                    (LIST ">" SUBDIRECTORY ">"))
                                      (AND RELATIVEDIRECTORY (NEQ RELATIVEDIRECTORY BLIP)
                                        (PROGN (SETQ RELATIVEDIRECTORY (CONCAT RELATIVEDIRECTORY))
                                            [for C from 1 to (NCHARS RELATIVEDIRECTORY)

```



```

do (COND
  ([FMEMB (NTHCHARCODE RELATIVEDIRECTORY C)
    (CONSTANT (LIST (CHARCODE /)
                     (CHARCODE %.)
                     (CHARCODE /)
                     (CHARCODE \)
                     (RPLCHARCODE RELATIVEDIRECTORY C (CHARCODE
                                                         >])
    (LIST ">" RELATIVEDIRECTORY ">"))))
  (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 '%.)
      (OR EXTENSION BLIP)))
    (AND VERSION (NEQ VERSION BLIP)
      (COND
        ((FIXP VERSION)
          (LIST '%. VERSION))
        (T (SELCHARQ (CHCON1 VERSION)
          (; (LIST VERSION))
          ((%. !))
          (LIST '%. (SUBSTRING VERSION 2 -1)))
          (L (LIST '%. 'OLDEST))
          (H 0)
          (LIST '%. 'NEWEST))
          (LIST '%. VERSION]))

```

## (REPACKFILENAME.STRING.TOP20

; Edited 8-Oct-90 16:42 by welch

```

[LAMBDA N
  (if (AND (EQ N 1)
    (LISTP (ARG N 1)))
    then
      (APPLY (FUNCTION REPACKFILENAME.STRING.TOP20)
        (ARG N 1))
    else (PROG ((BLIP "")
      (I 1)
      HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION TEMPORARY RELATIVEDIRECTORY SUBDIRECTORY
      PROTECTION ACCOUNT PACKLIST VAR VAL TEMP)
      (DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION TEMPORARY PROTECTION
        ACCOUNT))
      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.TOP20 VAL))
              (T VAL)))
              (* NIL => not yet seen, BLIP => seen as NIL.)
              [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))))
              (SUBDIRECTORY (OR SUBDIRECTORY (SETQ SUBDIRECTORY
                (if VAL
                  then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                    CL:DIRECTORY-NAMESTRING
                    *DEFAULT-PATHNAME-DEFAULTS*

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))
                                VAL)
                                else BLIP))))
(RELATIVEDIRECTORY
  (OR RELATIVEDIRECTORY (SETQ RELATIVEDIRECTORY
    (if VAL
      then (CONCAT (CL:STRING-LEFT-TRIM "<" (
        CL:DIRECTORY-NAMESTRING
        *DEFAULT-PATHNAME-DEFAULTS*
        ))
      VAL)
    else BLIP))))
(DIRECTORY (OR DIRECTORY (SETQ DIRECTORY (OR VAL BLIP))))
((DEVICE HOST NAME EXTENSION VERSION)
  (OR (EVALV VAR)
    (SET VAR (OR VAL BLIP))))
  (\ILLEGAL.ARG VAR))
(SETQ I (ADD1 I))
(GO LP)))
(SELECTQ TEMPORARY
  ((T S ;S)
    (OR HOST DEVICE (PROGN (SETQ HOST '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 ':%:)]
  (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 SUBDIRECTORY (NEQ SUBDIRECTORY BLIP)
    (PROGN (SETQ SUBDIRECTORY (CONCAT SUBDIRECTORY))
      [for C from 1 to (NCHARS SUBDIRECTORY)
        do (COND
          ([FMEMB (NTHCHARCODE SUBDIRECTORY C)
            (CONSTANT (LIST (CHARCODE /)
              (CHARCODE >])
            (RPLCHARCODE SUBDIRECTORY C (CHARCODE %.)]
            (LIST "<" SUBDIRECTORY ">"))))
  (AND RELATIVEDIRECTORY (NEQ RELATIVEDIRECTORY BLIP)
    (PROGN (SETQ RELATIVEDIRECTORY (CONCAT RELATIVEDIRECTORY))
      [for C from 1 to (NCHARS RELATIVEDIRECTORY)
        do (COND
          ([FMEMB (NTHCHARCODE RELATIVEDIRECTORY C)
            (CONSTANT (LIST (CHARCODE /)
              (CHARCODE >])
            (RPLCHARCODE RELATIVEDIRECTORY C (CHARCODE
              %.]
              (LIST "<" RELATIVEDIRECTORY ">"))))
  (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 '%.))
      (OR EXTENSION BLIP)))
  [AND VERSION (NEQ VERSION BLIP)
    (COND
      ((FIXP VERSION)
        (LIST '%. VERSION))
      (T (SELCHARQ (CHCON1 VERSION)
        (; (LIST VERSION))
        ((%. !))
        (LIST '%. (SUBSTRING VERSION 2 -1)))
        (L (LIST '%. -2))
        (H (LIST '%. 0))
        (LIST '%. VERSION])
  (AND TEMPORARY (NEQ TEMPORARY BLIP)
    (LIST ';' (SELECTQ TEMPORARY
      ((S ;S)
        'S)
      T]))

```

**(REPACKFILENAME.STRING.UNIX**

; Edited 8-Oct-90 16:48 by welch

```

[LAMBDA N
  (if (AND (EQ N 1)
    (LISTP (ARG N 1)))
    then
      (APPLY (FUNCTION REPACKFILENAME.STRING.UNIX)
        (ARG N 1))
    else (PROG ((BLIP "")
      (I 1)
      HOST DEVICE STRUCTURE DIRECTORY RELATIVEDIRECTORY SUBDIRECTORY DIR NAME EXTENSION VERSION
      PACKLIST VAR VAL TEMP)
      (DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY NAME RELATIVEDIRECTORY SUBDIRECTORY
        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)))
              (* NIL => not yet seen, BLIP => seen as NIL.)
              (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))))))
                (SUBDIRECTORY (OR SUBDIRECTORY (SETQ SUBDIRECTORY
                  (if VAL
                    then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                      CL:DIRECTORY-NAMESTRING
                        *DEFAULT-PATHNAME-DEFAULTS*
                          ))
                    else BLIP))))
                  VAL)
                (RELATIVEDIRECTORY
                  (OR RELATIVEDIRECTORY (SETQ RELATIVEDIRECTORY
                    (if VAL
                      then (CONCAT (CL:STRING-LEFT-TRIM "<" (
                        CL:DIRECTORY-NAMESTRING
                          *DEFAULT-PATHNAME-DEFAULTS*
                            ))
                      else BLIP))))
                    VAL)
                (DIRECTORY (OR DIRECTORY (SETQ DIRECTORY (OR VAL 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
                        ((EQ (NTHCHARCODE DIRECTORY C)
                          (CONSTANT (CHARCODE >)))
                          (RPLCHARCODE DIRECTORY C (CHARCODE /]
                        (LIST "/" DIRECTORY "/"))
                        (LIST "/" DIRECTORY "/"))
                    ]
                )

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(AND SUBDIRECTORY (NEQ SUBDIRECTORY BLIP)
  (PROGN (SETQ SUBDIRECTORY (CONCAT SUBDIRECTORY))
    [for C from 1 to (NCHARS SUBDIRECTORY)
      do (COND
        ((EQ (NTHCHARCODE SUBDIRECTORY C)
          (CONSTANT (CHARCODE >)))
          (RPLCHARCODE SUBDIRECTORY C (CHARCODE /]
        (LIST "/" SUBDIRECTORY "/""))
        (LIST "/" SUBDIRECTORY "/""))
    (AND RELATIVEDIRECTORY (NEQ RELATIVEDIRECTORY BLIP)
      (PROGN (SETQ RELATIVEDIRECTORY (CONCAT RELATIVEDIRECTORY))
        [for C from 1 to (NCHARS RELATIVEDIRECTORY)
          do (COND
            ((EQ (NTHCHARCODE RELATIVEDIRECTORY C)
              (CONSTANT (CHARCODE >)))
              (RPLCHARCODE RELATIVEDIRECTORY C (CHARCODE
                /]
            (LIST "/" RELATIVEDIRECTORY "/""))
            (LIST "/" RELATIVEDIRECTORY "/""))
        (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 '%.))
            (OR EXTENSION BLIP]))

```

## (\REPACKFILENAME.NEW.TRANSLATION

```

[LAMBDA (OSTYPE FUNCTION)
  (DECLARE (GLOBALVARS \REPACKFILENAME.OSTYPE.TABLE)) (* ejs%: "27-Apr-85 13:36")
  (PUTHASH OSTYPE FUNCTION \REPACKFILENAME.OSTYPE.TABLE])

```

## (\REPACKFILENAME.NEW.TRANSLATIONS

```

[NLAMBDA NAMES (* ejs%: "27-Apr-85 13:36")

```

(\* \* Supply a property-list format argument of ostyles and translating functions to be added to ostyle table)

```

(for TAIL on NAMES by (CDDR TAIL) do (for OSTYPE inside (CAR TAIL) do (\REPACKFILENAME.NEW.TRANSLATION
  OSTYPE
  (CADR TAIL])

```

)

```

(RPAQ? \REPACKFILENAME.OSTYPE.TABLE (HASHARRAY 30 1.1))

```

```

(DECLARE%: DOEVAL@COMPILE DONTCOPY

```

```

(GLOBALVARS \REPACKFILENAME.OSTYPE.TABLE)
)

```

## (\REPACKFILENAME.NEW.TRANSLATIONS (INTERLISP IFS)

```

  REPACKFILENAME.STRING.D
  (TOPS-20 TOPS20)
  REPACKFILENAME.STRING.TOP20
  (SYMBOLICS-3600 LISP GENERA)
  REPACKFILENAME.STRING.3600 VMS REPACKFILENAME.STRING.VMS UNIX REPACKFILENAME.STRING.UNIX MS-DOS
  REPACKFILENAME.STRING.MSDOS)

```

```

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

```

```

(ADDTOTVAR NLAMA \REPACKFILENAME.NEW.TRANSLATIONS)

```

```

(ADDTOTVAR NLAML )

```

```

(ADDTOTVAR LAMA REPACKFILENAME.STRING.UNIX REPACKFILENAME.STRING.TOP20 REPACKFILENAME.STRING.3600
  REPACKFILENAME.STRING.VMS REPACKFILENAME.STRING.TI REPACKFILENAME.STRING.MSDOS
  REPACKFILENAME.STRING.D)
)

```

```

(PUTPROPS TCPNAMES COPYRIGHT ("Xerox Corporation" 1985 1987 1988 1989 1990))

```

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