

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 COMPILEVAR
    (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 (* spread argument list)

```
(APPLY (FUNCTION REPACKFILENAME.STRING.D)
        (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 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

(* fields must be atom)


```

(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.TI 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 \]
            (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 \]
                    (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 \]
                    (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 '%# '>))
 (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))) (* fields must be atom)
 (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*
 ))
 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 "]")))
 (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)))
     (LIST ';' VERSION)))

```

(REPACKFILENAME.STRING.3600

[LAMBDA N

; Edited 8-Oct-90 16:46 by welch

(* * Can you believe this???)

```

(if (AND (EQ N 1)
  (LISTP (ARG N 1)))
  then
    (APPLY (FUNCTION REPACKFILENAME.STRING.3600)
      (ARG N 1))
  else (PROG ((BLIP "")
    (I 1)
    HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION PACKLIST VAR VAL TEMP RELATIVEDIRECTORY
    SUBDIRECTORY)
    (DECLARE (SPECVARS HOST DEVICE STRUCTURE DIRECTORY NAME EXTENSION VERSION SUBDIRECTORY
      RELATIVEDIRECTORY))
    LP (COND
      ((NOT (IGREATERP I N))
        (COND
          ((LISTP (SETQ VAR (ARG N I)))
            (SETQ VAL (CDR VAR))

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```

    (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)))
      (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 %.)
                       (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

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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]))

```



```

(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 LISPM GENERA)
  REPACKFILENAME.STRING.3600 VMS REPACKFILENAME.STRING.VMS UNIX REPACKFILENAME.STRING.UNIX MS-DOS
  REPACKFILENAME.STRING.MSDOS)

```

```

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS

```

```

(ADDTOVAR NLAMA \REPACKFILENAME.NEW.TRANSLATIONS)

```

```

(ADDTOVAR NLAML )

```

```

(ADDTOVAR 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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TCPNAMES
