

File created: 25-Mar-86 13:22:34 {LOGOS:AFB:SIP}<DOUG>LISP>DUMPER.;10

changes to: (FNS DUMP.DUMP DUMP.DIRECTORY DUMP DUMP.LOG.FILENAME DUMP.NEW.FILENAME DUMP.DIRECTORIES)
(VARS DUMPERCOMS)

previous date: 24-Mar-86 21:40:40 {LOGOS:AFB:SIP}<DOUG>LISP>DUMPER.;7

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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```
(RPAQQ DUMPERCOMS ((FNS DUMP DUMP.DUMP DUMP.NEW.FILENAME DUMP.DIRECTORIES DUMP.DIRECTORY
                    DUMP.GENERATE.NEWERTHAN DUMP.NVERSIONS)
 (INITVARS (DUMP.IGNORE.DIRS ' (FONTS CLEARINGHOUSE SYSTEMFILES DESKTOPS))
 (DUMP.IGNORE.SPECS ' (* .DCOM;* *.SYSOUT;*))
 (DUMP.DIRECTORY.SEPARATOR "\"))))
```

(DEFINEQ

(DUMP

[LAMBDA (HOST TO.DIRECTORY LOG.FILE NEWERTHAN NVERSIONS) (* drc: "25-Mar-86 12:43")

(* * Will dump all files on NS file server HOST which are newer than NEWERTHAN, a date string, with a maximum of
NVERSIONS of a particular file being dumped to TO.DIRECTORY.
If NEWERTHAN is NIL then all versions written since (GDATE 0) will be dumped.
If NVERSIONS is NIL then all versions will be dumped. A log file will be written to a file w/ name specified by
DUMP.LOG.FILENAME. Returns the log file name.)

(DECLARE (GLOBALVARS DUMP.IGNORE.SPECS))

(RESETLST

```
(LET ((IDATE (if NEWERTHAN
                  then (IDATE NEWERTHAN)
                  else 0))
 (FILTERS (MAPCAR DUMP.IGNORE.SPECS (FUNCTION DIRECTORY.MATCH.SETUP)))
 LOG FILES) (* do a little arg checking)
(OR (FIXP IDATE)
 (ERROR NEWERTHAN "ARG NOT A DATE STRING"))
(OR (STRPOS ":" (MKSTRING HOST))
 (ERROR HOST "NOT AN NS HOST"))
(SETQ LOG (OPENSTREAM LOG.FILE 'OUTPUT 'NEW))
(RESETSAVE NIL (LIST 'CLOSEF? LOG))
(printout LOG "Dump of server " HOST " on " (DATE)
 " to " TO.DIRECTORY "." T "Dumping " (OR NVERSIONS "all")
 " versions of each file written since "
 (GDATE IDATE)
 "." T)
(printout LOG "Not dumping files on directories :")
(for DIR in DUMP.IGNORE.DIRS do (PRINTOUT LOG " " DIR))
(printout LOG T "Not dumping files which match :")
(for SPEC in DUMP.IGNORE.SPECS do (PRINTOUT LOG " " SPEC))
(printout LOG T T) (* actually do the dump.)
(for DIR in (DUMP.DIRECTORIES HOST) bind FILES do (PRINTOUT T DIR)
 (SETQ FILES (DUMP.DIRECTORY HOST DIR IDATE
                          NVERSIONS FILTERS LOG))
 (printout T "(" (FLENGTH FILES)
 " ")
 (DUMP.DUMP FILES TO.DIRECTORY LOG)
 (PRINTOUT T "OK" T))

(printout LOG T (DATE)
 " Done with backups." T)
(CLOSEF LOG)))]
```

(DUMP.DUMP

[LAMBDA (FILES TO.DIR LOG)

(* drc: "25-Mar-86 13:02")

(* * Will copy all files in FILES to TO.DIR, renaming files as specified by DUMP.NEW.FILENAME.
Each file copied is recorded in LOG, a stream opened for output.)

(for FILE in FILES as N from 1 bind VALUE NEWNAME do (SETQ N9]

AME

(DUMP.NEW.FILENAME FILE TO.DIR))

(SETQ

VALUE (NLSETQ (COPYFILE FILE NEWNAME)))

(if

(LISTP VALUE)

then

(* file dumped successfully)

(PRINTOUT T (if (ZEROP (REMAINDER N 10))

```

    then N
    else ".")
(printout LOG FILE T)
else
(LET ((ERROR (ERRORN)))
  (PRINTOUT T (ERRORSTRING (CAR ERROR))
    " "
    (CADR ERROR)
    T FILE " Not dumped." T)
  (PRINTOUT LOG (ERRORSTRING (CAR ERROR))
    " "
    (CADR ERROR)
    T FILE " Not dumped." T)))
)
NIL

[DUMP.NEW.FILENAME (LAMBDA (FILE TO.DIR)
  (* Replaces >'s in the DIRECTORY field of file with DUMP.DIRECTORY.SEPARATOR.)
  (DECLARE (GLOBALVARS DUMP.DIRECTORY.SEPARATOR))
  (LET ((FILEFIELDS (UNPACKFILENAME FILE))
    (PACKFILENAME 'NAME (CONCAT [CONCATLIST (DSUBST DUMP.DIRECTORY.SEPARATOR '>'
      (UNPACK (LISTGET FILEFIELDS 'DIRECTORY)
        DUMP.DIRECTORY.SEPARATOR
        (LISTGET FILEFIELDS 'NAME))
      'EXTENSION
      (LISTGET FILEFIELDS 'EXTENSION)
      'VERSION NIL 'BODY TO.DIRECTORY]
    (DUMP.DIRECTORIES (LAMBDA (HOST)
  (* Returns a list of the names of all the top-level directories on NS host HOST except those on DUMP.IGNORE.DIRS)
  (DECLARE (GLOBALVARS DUMP.IGNORE.DIRS))
  (LET [(DIRS (MAPCAR (DIRECTORY (PACKFILENAME 'HOST HOST 'DIRECTORY '*))
    (FUNCTION (LAMBDA (SPEC) (* DIRECTORY of {host:}<*> returns a list of {host:}<*>.;1)
      (MKATOM (U-CASE (FILENAMEFIELD SPEC 'DIRECTORY)
        (for DIR in DUMP.IGNORE.DIRS do (DREMOVE (MKATOM (U-CASE DIR)
          DIRS))
        DIRS]
  (DUMP.DIRECTORY (LAMBDA (HOST DIR IDATE NVERSIONS FILTERS LOG)
  (* Return all the files on DIR newer than IDATE, an IDATE, with no more than NVERSIONS of any particular file.
  NIL versions means all. Files which match a filter on FILTERS (generated from by mapping DIRECTORY.MATCH.SETUP
  over DUMP.IGNORE.SPECS) are removed.)
  (LET* ((SPEC (PACKFILENAME 'HOST HOST 'DIRECTORY DIR 'BODY '*. *;*))
    (VALUE (NLSETQ (DUMP.GENERATE.NEWERTHAN SPEC IDATE)))
    (FILES (if (LISTP VALUE)
      then (CAR VALUE)
      else (LET ((ERROR (ERRORN)))
        (PRINTOUT T (ERRORSTRING (CAR ERROR))
          " "
          (CADR ERROR)
          T SPEC " Not dumped." T)
        (PRINTOUT LOG (ERRORSTRING (CAR ERROR))
          " "
          (CADR ERROR)
          T SPEC " Not dumped." T))
        NIL)))
    (for FILE in (if NVERSIONS
      then (DUMP.NVERSIONS FILES NVERSIONS)
      else FILES)
      when (for FILTER in FILTERS never (DIRECTORY.MATCH FILTER FILE)) collect FILE]
  (DUMP.GENERATE.NEWERTHAN (LAMBDA (SPEC IDATE)
  (* drc: "21-Mar-86 22:05")
  (RESETLST
    (* collect all the files in filespec SPEC newerthan IDATE)
    (bind FILE (GEN _ (\GENERATEFILES SPEC ' (WRITEDATE)
      ,
      (RESETLST
        SORT)))
    eachtime (SETQ FILE (\GENERATENEXTFILE GEN))
    when (GEQ (IDATE (\GENERATEFILEINFO GEN 'WRITEDATE))
      IDATE)
    collect FILE until (NOT FILE))))
  (DUMP.NVERSIONS (LAMBDA (FILES N)
  (* drc: " 1-Jan-01 00:36")
  (* assumes FILES is sorted, with low versions first)
  (DREVERSE (for TAIL on (DREVERSE FILES) bind FILE LASTFILE FILEFIELDS LASTFIELDS
    (M _ 1)
    eachtime
    (SETQ LASTFILE FILE)
    (SETQ FILE (CAR TAIL)))
    (* Have to reverse list to get high versions first.)

```

```
(SETQ LASTFIELDS FILEFIELDS)
(SETQ FILEFIELDS (UNPACKFILENAME FILE))
(* only collect the first N of a particular file)
(if (AND (EQ (LISTGET FILEFIELDS 'NAME)
              (LISTGET LASTFIELDS 'NAME))
        (EQ (LISTGET FILEFIELDS 'EXTENSION)
              (LISTGET LASTFIELDS 'EXTENSION))
        (EQ (LISTGET FILEFIELDS 'DIRECTORY)
              (LISTGET LASTFIELDS 'DIRECTORY)))
    then (SETQ M (ADD1 M))
    else (SETQ M 1))
when (LEQ M N) collect FILE]
```

NIL

```
(RPAQ? DUMP.IGNORE.DIRS ' (FONTS CLEARINGHOUSE SYSTEMFILES DESKTOPS))
(RPAQ? DUMP.IGNORE.SPECS ' (*.DCOM;* *.SYSOUT;*))
(RPAQ? DUMP.DIRECTORY.SEPARATOR "\\")
(PUTPROPS DUMPER COPYRIGHT ("Speech Input Project, Univ. of Edinburgh" 1986 1901))
```

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