

File created: 26-Jun-90 19:28:14 {DSK}<usr>local>lde>lispcore>internal>library>TAR.;2

changes to: (VARS TARCOMS)

previous date: 31-Dec-00 17:55:22 {DSK}<usr>local>lde>lispcore>internal>library>TAR.;1

Read Table: XCL

Package: INTERLISP

Format: XCCS

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```
(RPAQQ TARCOMS ((RECORDS TARHEADER)
                (FNS GATHER-NAME READ-TAR-FILE)))
```

```
(DECLARE\ : EVAL@COMPILE
```

```
(BLOCKRECORD TARHEADER ((FILENAME BYTE 100)
                        (MODE BYTE 8)
                        (UID BYTE 8)
                        (GID BYTE 8)
                        (SIZE BYTE 12)
                        (MTIME BYTE 12)
                        (CHKSUM BYTE 8)
                        (LINKFLAG BYTE)
                        (LINKNAME BYTE 100)))
)
```

```
(DEFINEQ
```

(GATHER-NAME

```
(LAMBDA (BASE OFFSET) ; Edited 19-Oct-87 00:41 by jds
  (APPLY 'CONCAT ((bind| CH |for| I |from| OFFSET |to| 100 |until| (ZEROP CH)
                 |when| (NOT (ZEROP (SETQ CH (\GETBASEBYTE BASE I)))) |collect| (COND
                                                                    ((IEQP CH (CHARCODE /))
                                                                     ">")
                                                                    ((IEQP CH (CHARCODE _))
                                                                     "-")
                                                                    (T (CHARACTER CH)))))))
```

(READ-TAR-FILE

```
(LAMBDA (FILENAME START LIST-ONLY SKIP-EXISTING-FILES) ; Edited 31-Dec-00 17:55 by jds
  (CL:WITH-OPEN-STREAM (INSTREAM (OPENSTREAM FILENAME 'INPUT 'OLD '(SEQUENTIAL T)
                                             (BUFFERS 40)))
    (LET* ((BUFFER (NCREATE 'VMEMPAGEP))
           (SIZE-STRING (CL:MAKE-ARRAY 12 :ELEMENT-TYPE 'CL:STRING-CHAR :DISPLACED-TO-BASE
                                       (\ADDBASE BUFFER 62)))
           (SIZE FILENAME OLDFPTR))
      ;; Read the file header:
      (SETFILEPTR INSTREAM (OR START 0))
      (while (NOT (EOF INSTREAM))
        (do (\BINS INSTREAM BUFFER 0 512)
            (SETQ FILENAME (GATHER-NAME BUFFER 2))
            (SETQ SIZE (CL:WITH-INPUT-FROM-STRING (IN SIZE-STRING)
                                                  (LET ((*READTABLE* (FIND-READTABLE "XCL"))
                                                      (*READ-BASE* 8))
                                                  (CL:READ IN))))
            (PRINTOUT T "FILE: " FILENAME ", SIZE = " SIZE T)
            (COND
              ((AND (NOT LIST-ONLY)
                    (> SIZE 0))
               (SETQ OLDFPTR (GETFILEPTR INSTREAM))
               (COND
                 ((OR (NOT SKIP-EXISTING-FILES)
                      (NOT (CL:PROBE-FILE FILENAME)))
                  (CL:WITH-OPEN-STREAM (OUT (OPENSTREAM FILENAME 'OUTPUT 'NEW
                                                         '(SEQUENTIAL T)
                                                         (BUFFERS 40)
                                                         (LENGTH ,SIZE))))
                    (COPYBYTES INSTREAM OUT SIZE)))
                 (SETFILEPTR INSTREAM (+ OLDFPTR (ITIMES 512 (IQUOTIENT (+ SIZE 511)
                                                                           512))))))))))
```

```
(PUTPROPS TAR COPYRIGHT ("Venue & Xerox Corporation" 1987 1900 1990))
```

FUNCTION INDEX

GATHER-NAME1 READ-TAR-FILE1

RECORD INDEX

TARHEADER1
