

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

; Copyright (c) 1987, 1900, 1990 by Venue & Xerox Corporation. All rights reserved.

```
(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 (EOFP 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-NAME .....	1	READ-TAR-FILE .....	1
-------------------	---	---------------------	---

---

RECORD INDEX

TARHEADER .....	1
-----------------	---

---