```
changes to:
                  (VARS FDEVTESTCOMS)
 Read Table:
                  OLD-INTERLISP-FILE
    Package:
                  INTERLISP
       Format:
                   XCCS
             (* * Lots more has to be done here but I have the basic data structures here needed to create the test code)
             (* * Copyright (c) 1985 by Xerox Corporation. All rights reserved.)
(RPAQQ FDEVTESTCOMS [(RECORDS FDEV)
                              (MACROS .APPLY. FDEVOP)
                              (P (MOVD (QUOTE APPLY*)
                                          (QUOTE SPREADAPPLY*])
(DECLARE: EVAL@COMPILE
(DATATYPE FDEV ((DEVICENAME POINTER)
                     (RESETABLE FLAG)
                     (RANDOMACCESSP FLAG)
                     (NODIRECTORIES FLAG)
                                                                                        True if i/o handled by pmap routines)
                     (PAGEMAPPED FLAG)
                                                                                        Copied as a microcode flag for INPUT streams formed on this
                     (FDBINABLE FLAG)
                    device)
                     (FDBOUTABLE FLAG)
                     (FDEXTENDABLE FLAG)
                     (BUFFERED FLAG)
             (* True implies that the device supports the BIN & BOUT uCode conventions, and implements the GETNEXTBUFFER
             method)
                                                                                        Device operations:) true if device not local to machine)
                     (REMOTER FLAG)
                     (SUBDIRECTORIES FLAG)
                                                                                        true if device has real subdirectories)
                     (NIL 6 FLAG)
                                                                                        (stream) => closes stream, returns it)
(name) => deletes file so named, returning name, or NIL on
                     (CLOSEFILE POINTER)
                     (DELETEFILE POINTER)
                                                                                      failure. RECOG=OLDEST)
                                                                                        (host/dir) => true if directory exists on host)
                     (DIRECTORYNAMEP POINTER)
                                                                                        (device event), called before/after logout, sysout, makesys)
                     (EVENTEN POINTER)
                     (GENERATEFILES POINTER)
             (* (device pattern) => generator object for files matching pattern.
Car of object is generator function, cdr is arbitrary state. Generator fn returns next file, or NIL when finished)
                     (GETFILEINFO POINTER)
                                                                                        (stream/name attribute device) => value of attribute for open
                                                                                      stream or name of closed file)
                     (GETFILENAME POINTER)
                                                                                      (* (name recog device) => full file name)
                     (HOSTNAMEP POINTER)
             (* (hostname {device}) => T if hostname is valid. If device is given, return a FDEV for this {new} host, or T to use existing
             device)
                                                                                      (* (name access recog otherinfo device) => new stream open on
                      (OPENFILE POINTER)
                    this device, or NIL if name not found)
                     (READPAGES POINTER)
             (* (stream firstpage# buflist) => # of bytes read, starting at firstpage#, reading into buflist, a list of buffers or a single buffer
             (the usual case))
                     (REOPENFILE POINTER)
             (* (name access recog otherinfo device stream) like openfile, but called after logout to revalidate file, so optionally uses info
             in old stream to keep this opening like the previous)
                                                                                      (* (stream/name attribute newvalue device) sets attribute of
                     (SETFILEINFO POINTER)
                                                                                      open stream or closed file of given name)
                                                                                        (stream page offset) make stream's eof be at page, offset,
                     (TRUNCATEFILE POINTER)
                                                                                      discarding anything after it)
                                                                                      (* (stream firstpage# buflist) writes from buflist to stream starting
                     (WRITEPAGES POINTER)
                    at firstpage# of stream)
                     (BIN POINTER)
(BOUT POINTER)
                                                                                        (stream) => next byte of input)
                                                                                        (stream byte) output byte to stream)
                                                                                         (stream) => next byte without advancing position in stream)
                     (PEEKBIN POINTER)
                     (READP POINTER)
                                                                                        (stream flag) => T if there is input available from stream)
                     (BACKFILEPTR POINTER)
             (* (stream) backs up "fileptr" by one. Stream is only required to be able to do this once, i.e.
             one-character buffer suffices)
                     (DEVICEINFO POINTER)
                                                                                       arbitrary device-specific info stored here)
                     (FORCEOUTPUT POINTER)
                                                                                        (stream waitForFinish) flushes out to device anything that is
                                                                                      buffered awaiting transmission)
                                                                                      (* Should be possible only if RÁNDOMACCESSP)
                     (LASTC POINTER)
```

6-Sep-85 10:23:52 {DSK}<LISPFILES>FDEVTEST.;2

File created:

```
(SETFILEPTR POINTER)
                                 (GETFILEPTR POINTER)
                                 (GETEOFPTR POINTER)
                                 (EOFP POINTER)
                                 (BLOCKIN POINTER)
                                                                                                                                        (stream buffer byteoffset nbytes))
                                 (BLOCKOUT POINTER)
                                                                                                                                        (stream buffer byteoffset nbytes))
                                 (RENAMEFILE POINTER)
                                                                                                                                        oldfile newfile device)
                                                                                                                                        (stream) => Does whatever appropriate when CBUFPTR is
                                 (RELEASEBUFFER POINTER)
                                 (GETNEXTBUFFER POINTER)
                    (* (stream whatfor noerrorflg) => Disposes of current buffer and optionally reads next.
                    whatfor is READ or WRITE. Can cause EOF error unless noerrorflg)
                                 (SETEOFPTR POINTER)
                                                                                                                                    (* (stream length) => truncates or lengthens stream to indicated
                                lenath)
                                 (FREÉPAGECOUNT POINTER)
                                                                                                                                        (host/dir dev) => # of free pages on host/dir)
                                 (MAKEDIRECTORY POINTER)
                                                                                                                                        (host/dir dev))
                                                                                                                                        window system operations -
                                 (WINDOWOPS POINTER)
                                                                                                                                    type WSOPS)
                                 (WINDOWDATA POINTER)
                                                                                                                                        data for window systems)
                                 (CHECKFILENAME POINTER)
                                                                                                                                        (name dev) => name if it is well-formed file name for dev)
                                 (HOSTALIVEP POINTER)
                    (* (host dev) => true if host is alive, i.e., responsive; only defined if REMOTEP is true)
                                 (OPENP POINTER)
                    (* (name access dev) => stream if name is open for access, or all open streams if name = NIL)
                                 (OPENFILELST POINTER)
                                                                                                                                        Default place to keep list of streams open on this device)
                                 (NIL POINTER)
                                                                                                                                       Spare)
                                             _ (FUNCTION NILL)
              DIRECTORYNAMEP
              HOSTNAMEP
                                      (FUNCTION NILL)
              READP _ (FUNCTION \GENERIC.READP)
              SETFILEPTR _ (FUNCTION \IS.NOT.RANDACCESSP)
              GETFILEPTR _ (FUNCTION \ILLEGAL.DEVICEOP)
GETEOFPTR _ (FUNCTION \IS.NOT.RANDACCESSP)
                           (FUNCTION \ILLEGAL.DEVICEOP)
              BLOCKIN _ (FUNCTION \GENERIC.BINS)
BLOCKOUT (FUNCTION \GENERIC BOUT
             BLOCKOUT _ (FUNCTION \GENERIC.BOUTS)
RENAMEFILE _ (FUNCTION \GENERIC.RENAMEFILE)
FORCEOUTPUT _ (FUNCTION NILL))
)
(/DECLAREDATATYPE (QUOTE FDEV)
              POINTER POINTE
                                          POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER
                                          POINTER POINTER POINTER POINTER POINTER POINTER))
              ;; ---field descriptor list elided by lister---
              (OUOTE 84))
(DECLARE: EVAL@COMPILE
(PUTPROPS .APPLY. MACRO [(U V)
                                                                                                                                    (* body for APPLY, used by RETAPPLY too)
                                                     (PROG ((DEF U))
                                                        LΡ
                                                                 [COND
                                                                        ((LITATOM DEF)
                                                                          (COND
                                                                               ((NOT (fetch (LITATOM CCODEP) of DEF))
                                                                                                                                    (* EXPR)
                                                                                  (SETQ DEF (fetch (LITATOM DEFPOINTER) of DEF)))
                                                                                ((EQ (fetch (LITATOM ARGTYPE) of DEF)
                                                                                  (GO NLSTAR))
                                                                                (T (GO NORMAL]
                                                                 [COND
                                                                       ((LISTP DEF)
                                                                         (SELECTQ (CAR DEF)
                                                                                   (NLAMBDA (AND (NLISTP (CADR DEF))
                                                                                                                (CADR DEF)
                                                                                                                (GO NLSTAR)))
                                                                                   (FUNARG (SETQ DEF (CADR DEF))
                                                                                                   (GO LP))
                                                                                  NIL))
                                                                       ((NULL DEF)
                                                                          (RETURN (FAULTAPPLY U V]
                                                         NORMAL
                                                                 (RETURN (SPREADAPPLY U V))
                                                         NLSTAR
                                                                                                                                    (* NLAMBDA*)
                                                                 (RETURN (SPREADAPPLY* II V1)
```

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