

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

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)

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```
(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)
                  (PAGEMAPPED FLAG)
                  (FDBINABLE FLAG)
                  device)
                  (FDBOUTABLE FLAG)
                  (FDEXTENDABLE FLAG)
                  (BUFFERED FLAG)
```

(\* True if i/o handled by pmap routines)  
(\* Copied as a microcode flag for INPUT streams formed on this

(\* True implies that the device supports the BIN & BOUT uCode conventions, and implements the GETNEXTBUFFER method)

```
(REMOTE P FLAG)
(SUBDIRECTORIES FLAG)
(NIL 6 FLAG)
(CLOSEFILE POINTER)
(DELETEFILE POINTER)
```

(\* Device operations:)  
(\* true if device not local to machine)  
(\* true if device has real subdirectories)  
  
(\* (stream) => closes stream, returns it)  
(\* (name) => deletes file so named, returning name, or NIL on failure. RECOG=OLDEST)  
(\* (host/dir) => true if directory exists on host)  
(\* (device event), called before/after logout, sysout, makesys)

```
(DIRECTORYNAMEP POINTER)
(EVENTFN 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)
(GETFILENAME POINTER)
(HOSTNAMEP POINTER)
```

(\* (stream/name attribute device) => value of attribute for open stream or name of closed file)  
(\* (name recog device) => full file name)

(\* (hostname {device}) => T if hostname is valid. If device is given, return a FDEV for this {new} host, or T to use existing device)

```
(OPENFILE POINTER)
this device, or NIL if name not found)
(READPAGES POINTER)
```

(\* (name access recog otherinfo device) => new stream open on

(\* (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)

```
(SETFILEINFO POINTER)
(TRUNCATEFILE POINTER)
(WRITEPAGES POINTER)
at firstpage# of stream)
(BIN POINTER)
(BOUT POINTER)
(PEEKBIN POINTER)
(READP POINTER)
(BACKFILEPTR POINTER)
```

(\* (stream/name attribute newvalue device) sets attribute of open stream or closed file of given name)  
(\* (stream page offset) make stream's eof be at page,offset, discarding anything after it)  
(\* (stream firstpage# buflist) writes from buflist to stream starting  
  
(\* (stream) => next byte of input)  
(\* (stream byte) output byte to stream)  
(\* (stream) => next byte without advancing position in stream)  
(\* (stream flag) => T if there is input available from stream)

(\* (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)
(FORCEOUTPUT POINTER)
(LASTC POINTER)
```

(\* arbitrary device-specific info stored here)  
(\* (stream waitforFinish) flushes out to device anything that is buffered awaiting transmission)  
(\* Should be possible only if RANDOMACCESSP)

[illegible]

```
{MEDLEY}<test>tools>FDEVTEST.;1
```

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```
(PUTPROPS FDEVOP MACRO [ARGS (CONS (QUOTE SPREADAPPLY*)
                                     (CONS (COND
                                             ((EQ (CAR (LISTP (CAR ARGS)))
                                                  (QUOTE QUOTE))
                                              (LIST (QUOTE fetch)
                                                    (CADAR ARGS)
                                                    (QUOTE of)
                                                    (CADR ARGS)))
                                             (T (HELP "FDEVOP - OPNAME not quoted:" ARGS)))
                                     (CDDR ARGS])
)

(MOVD (QUOTE APPLY*)
      (QUOTE SPREADAPPLY*))

(PUTPROPS FDEVTEST COPYRIGHT ("Xerox Corporation" 1985))
```

MACRO INDEX

.APPLY.	2	FDEVOP	3
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RECORD INDEX

FDEV	1
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