## FS\_FSCTL

#### Purpose

Allow an extended standard interface between an application and a file system driver.

### **Calling Sequence**

### Where

pArgDat is a pointer to the union whose contents depend on *iArgType*. The union is defined as follows:

```
union argdat {
    /* pArgType = 1, FileHandle directed case */
    struct sf {
        struct sffsi far * psffsi;
        struct sffsd far * psffsd;
    };
    /* pArgType = 2, Pathname directed case */
    struct cd {
        struct cdfsi far * pcdfsi;
        struct cdfsd far * pcdfsd;
        char far *
                           pPath;
        unsigned short
                           iCurDirEnd;
    };
    /* pArgType = 3, FSD Name directed case */
    /* pArgDat is Null
                                             */
};
```

# iArgTypeindicates the argument type.iArgType = 1means that $pArgDat \rightarrow sf.psffsi$ and $pArgDat \rightarrow sf.psffsd$ point to an sffsi and sffsd,<br/>respectively.

iArgType	indicates the argument type.	
iArgType =	means that $pArgDat \rightarrow cd.pcdfsi$ and $pArgDat \rightarrow cd.pcdfsd$ point to a $cdfsi$ and $cdfsd$ , $pArgDat \rightarrow cd.pPath$ points to a canonical pathname, and $pArgDat \rightarrow cd.iCurDirEnd$ g the index of the end of the current directory in $pPath$ . The FSD does not need to v the $pPath$ pointer.	ives erify
iArgType = 3 means that the call was FSD name routed, and pArgDat is a NULL pointer.		
func	indicates the function to perform.	
func == 1	indicates a request for new error code information.	
func == 2	indicates a request for the maximum EA size and EA list size supported by the FSD.	

*pParm* is the address of the application input parameter area.

Addressing of this data area has not been validated by the kernel (see FSH PROBEBUF).

*lenParm* is the maximum length of the application parameter area (*pParm*).

*plenParmIO* On input, contains the length in bytes of the parameters being passed in to the FSD in pParm. On return, contains the length in bytes of data returned in pParm by the FSD. The length of the data returned by the FSD in *pParm* must not exceed the length in *lenParm*. Addressing of this area is not validated by the kernel (see FSH PROBEBUF).

*pData* is the address of the application output data area.

Addressing of this data area is not validated by the kernel (see FSH PROBEBUF).

*lenData* is the maximum length of the application output data area (*pData*).

*plenDatalO* On input, contains the length in bytes of the data being passed in to the FSD in *pData*. On return, contains the length in bytes of data returned in *pData* by the FSD. The length of the data returned by the FSD in pData must not exceed the length in lenData. Addressing of this area is not validated by the kernel (see FSH PROBEBUF).

#### Remarks

The accessibility of the parameter and data buffers has not been validated by the kernel. FS PROBEBUF must be used.

All FSDs must support func == 1 to return new error code information and func == 2 to return the limits of the EA sizes.

For func == 1, the error code is passed to the FSD in the first WORD of the parameter area. On return, the first word of the data area contains the length of the ASCIIZ string containing an explanation of the error code. The data area contains the ASCIIZ string beginning at the second WORD.

For func == 2, the maximum EA and EA list sizes supported by the FSD are returned in the buffer pointed to by *pData* in the following format:

```
struct EASizeBufStruc {
   unsigned short easb_MaxEASize; /* Max size of an individual EA */
   unsigned long easb MaxEAListSize; /* Max full EA list size
```

```
*/
```

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