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HFileParam structure

#include < Files.h >

typedef struct HFileParam { struct <u>QElem</u> * qLink;		<u>Size</u> 4	Offset 0	<u>Description</u> Address of next queue element
				(0=last)
<u>short</u>	qType;	2	4	Always <u>ioQType</u> (2)
<u>short</u>	ioTrap;	2	6	(used internally by File Manager)
<u>Ptr</u>	ioCmdAddr;	4	8	(used internally by File Manager)
<u>ProcPtr</u>	ioCompletion;	4	12	Completion routine address (see Async I/O)
<u>OSErr</u>	ioResult;	2	16	Error code (0=no error, 1=not done yet,)
<u>StringPtr</u>	ioNamePtr;	4	18	Addr of full or partial path/filename
short	ioVRefNum;	2	22	Volume, drive, or directory
<u> </u>	,	_		reference
<u>short</u>	ioFRefNum;	2	24	File reference number
<u>char</u>	ioFVersNum;	1	26	Version (use 0 for HFS)
<u>char</u>	filler1;	1	27	(unused)
<u>short</u>	ioFDirIndex;	2	28	Index
<u>char</u>	ioFlAttrib;	1	30	File Attribute bits (locked,
	•			directory, etc)
<u>char</u>	ioFIVersNum;	1	31	File version (best to use 0)
<u>FInfo</u>	ioFIFndrInfo;	16	32	File type, creator, flags, etc. (see
				FInfo)
<u>long</u>	ioDirID;	4	48	'Hard' Directory ID
unsigned short	ioFIStBIk;	2	52	First allocation block of data fork
<u>long</u>	ioFILgLen;	4	54	Logical end-of-file of data fork
<u>long</u>	ioFIPyLen;	4	68	Physical end-of-file of data fork
unsigned short	ioFIRStBlk;	2	62	First allocation block of resource fork
<u>long</u>	ioFIRLgLen;	4	64	Logical end-of-file of resource fork
long	ioFIRPyLen;	4	68	Physical end-of-file of resource fork
unsigned long ioFICrDat;		4	72	Date/time of creation (seconds since 1/1/04)
unsigned long ioFIMdDat;		4	76	Date/Time of last modification
} HFileParam;		80		

Notes: The HFileParam structure is used HFS-specific calls (**PBH**xxx) calls which typically operate on closed files:

<u>PBDirCreate</u>	<u>PBHGetFInfo</u>	<u>PBHRename</u>	<u>PBHSetFLock</u>
PBHCreate	<u>PBHOpen</u>	PBHRstFLock	
PBHDelete	PBHOpenRF	PBHSetFInfo	

It is identical to <u>FileParam</u> in length, but the ioDirID field at offset 48 has changed names and meanings. Use this to specify a 'Hard' directory ID if you happen to have one. Use 0 to use the normal volume or working directory reference number in ioVRefNum.

The most common way to use this structure is to allocate a union which is

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Page 2 an aggregate and create and initialize a pointer to the desired data type. See HParamBlockRec for an example.