

**PBSetCatInfo**

Change file or directory descriptive information

#include &lt;Files.h&gt;

**File Manager (PBxxx)**

OSErr            **PBSetCatInfo**(*pb*, *async* );  
CInfoPBPtr    *pb* ;            address of a 108-byte CInfoPBRec union  
Boolean        *async* ;        0=await completion; 1=immediate return  
**returns**        Error Code; 0=no error

**PBSetCatInfo** lets you change such file and directory data as its creation, modification, and backup time, its locked/unlocked status, and Finder-specific information such as its icon ID and display position.

*pb* is the address of a 108-byte CInfoPBRec union. The information must be formatted as either a 108-byte HFileInfo or a 104-byte DirInfo structure, depending upon whether the entry is a file or directory.

To change a file's information, use an HFileInfo structure:

<u>Out-In Name</u>	<u>Type</u>	<u>Size</u>	<u>Offset</u>	<u>Description</u>
-> ioCompletion	<u>ProcPtr</u>	4	12	Completion routine address (if <i>async</i> =TRUE)
-> ioVRefNum	<u>short</u>	2	22	Volume, drive, or working directory reference
-> ioFIAAttrib	<u>SignedByte</u>	1	30	File Attribute bits (changes have no effect)
-> ioFIFndrInfo	<u>FInfo</u>	16	32	(File type, creator, flags, icon point, etc.)
-> ioDirID	<u>long</u>	4	48	"hard" ID of dir containing target file (or 0)
-> ioFICrDat	<u>long</u>	4	72	Date/time of creation
-> ioFIMdDat	<u>long</u>	4	76	Date/time of last modification
-> ioDrBkDat	<u>long</u>	4	80	Date/time last backed up
-> ioFIXFndrInfo	<u>FXInfo</u>	16	84	(Icon ID, comment ID, home directory)
-> ioFIClpSiz	<u>long</u>	4	104	Clump size for optimal writing (0=vol default)
<-> ioNamePtr	<u>StringPtr</u>	4	18	Address of full or partial name of file
<- ioResult	<u>OSErr</u>	2	16	Error Code (0=no error, 1=not done yet)

To change a directory's information, use a DirInfo structure:

<u>Out-In Name</u>	<u>Type</u>	<u>Size</u>	<u>Offset</u>	<u>Description</u>
-> ioCompletion	<u>ProcPtr</u>	4	12	Completion routine address (if <i>async</i> =TRUE)
-> ioVRefNum	<u>short</u>	2	22	Volume, drive, or working directory reference
-> ioFIAAttrib	<u>SignedByte</u>	1	30	File Attribute (only the lock bit can be changed)
-> ioDrUsrWds	<u>DInfo</u>	16	32	(Folder rectangle, location, flags, etc.)
-> ioDrDirID	<u>long</u>	4	48	"hard" ID of dir containing target file (or 0)
-> ioDrCrDat	<u>long</u>	4	72	Date/time of creation
-> ioDrMdDat	<u>long</u>	2	76	Date/time of last modification
-> ioDrBkDat	<u>long</u>	4	80	Date/time last backed up
-> ioDrFndrInfo	<u>DXInfo</u>	16	84	(Scroll point, home dir, comment, etc.)
<-> ioNamePtr	<u>StringPtr</u>	4	18	Address of full or partial name of directory
<- ioResult	<u>OSErr</u>	2	16	Error Code (0=no error, 1=not done yet)

*async* is a Boolean value. Use FALSE for normal (synchronous) operation or TRUE to enqueue the request and resume control immediately. See Async I/O.

**Returns:** an operating system Error Code. It will be one of:

noErr	(0)	No error
bdNamErr	(-37)	Bad name
dirNFErr	(-120)	Directory not found
extFSErr	(-58)	External file system

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fnfErr	(-43)	File not found
ioErr	(-36)	I/O error
nsvErr	(-35)	No such volume
paramErr	(-50)	No default volume

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Notes: This works somewhat like **PBHSetFInfo** except that it can change information about directories and it gives you access to additional fields in a larger parameter block.

Before calling **PBSetCatInfo**, call **PBGetCatInfo** to pre-set all the fields you don't wish to change. In particular, be sure that ioFIClpSiz is correct (or 0 for volume default clump size).

Some changes may not be noticed immediately. For instance, if you set the lock bit of ioFIAttrib, the system may not hear about it for some time (in addition to the normal volume caching, the Finder appears to have an internal cache - it's best to call **PBSetFLock** to lock a file). Other bits of the attribute byte cannot be changed; e.g., you can't force a directory to become a regular file.

The following example changes a file's backup date.

<b>Example</b>
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```
#include <Files.h>
```

```
CInfoPBRec    cipb;
HFileInfo     *fpb= (HFileInfo *)&cipb;
short         rc;
```

```
fpb->ioNamePtr = (StringPtr)"pHD 20:Ltrs:Smith";
fpb->ioVRefNum=0; /* volume supplied in filename */
fpb->ioFDirIndex=0; /* we're not indexing here */
fpb->ioDirID=0; /* 0 says "ignore me" */
rc=PBGetCatInfo( &cipb, FALSE );
if ( rc ) { /* . . . handle the error . . . */ }
```

```
GetDateTime( &fpb->ioFIBkDat ); /* set backup date to now */
fpb->ioFIFndrInfo.fdType = 'TEXT'; /* set file type */
```

```
rc=PBSetCatInfo( &cipb, FALSE ); /* update the file information */
if ( rc ) { /* . . . handle the error . . . */ }
```