PBCatMove Transfer file or directory to another directory

#include <Files.h> **File Manager (PBxxx)**

OSErr	**PBCatMove(***pb*, *async* **);**	
CMovePBPtr	*pb* ;	address of a 52-byte CMovePBRec structure
Boolean	*async* ;	0=await completion; 1=immediate return
	returns	Error Code; 0=no error

PBCatMove relocates the directory entry of a file or directory into a different directory on the same disk. File contents are not transferred; this is strictly a directory-modification operation. If a file ID exists for the file being moved, the file ID remains with the file.

pb is the address of a 52-byte CMovePBRec structure. The relevant fields are as follows:

Out-In	Name	Type	Size	Offset	Description
–>	ioCompletion	ProcPtr	4	12	Completion routine address (if *async* =TRUE)
–>	ioNamePtr	StringPtr	4	18	Address of source full or partial filename
–>	ioVRefNum	short	2	22	Volume, drive, or working directory
–>	ioNewName	StringPtr	4	28	Address of destination directory name
–>	ioNewDirID	long	4	36	'Hard' ID of destination dir (0=use name/vref)
–>	ioDirID	long	4	48	'Hard' ID of source directory (0=use ioNewName)
<-	ioResult	OSErr	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
badMovErr	(-122)	Can't move into offspring
bdNamErr	(-37)	Bad file name or attempt to move into file
dupFNErr	(-48)	Duplicate filename (destination file/dir already exists)
fnfErr	(-43)	Source file not found
ioErr	(-36)	I/O error
nsvErr	(-35)	No such volume
paramErr	(-50)	No default volume
vLckdErr	(-46)	Volume is locked
wPrErr	(-44)	Diskette is write-protected

Notes: The file or directory specified by ioNamePtr, ioVRefNum, and ioDirID (in various combinations), is transferred to the directory identified by ioNewName and/or ioNewDirID.

Note: If ioNewName is given, it must be a directory name (never a filename, even when moving a file).

PBCatMove cannot transfer between different disks (volumes) nor can it rename an item - use **PBHRename** for that. This function is smart enough to prevent you from moving a directory into a file or into an offspring directory.

As with **PBH**xxx functions, you may use 0 in ioDirID if you specify the full pathname (of the source file) in ioNamePtr. If you specify the full pathname in ioNewName, you can use ioNewDirID = 0.

Example

```
#include <Files.h>

CMovePBRec   cmpb;
OSErr        rc;

/* === move file using fully-qualified path names === */

cmpb.ioNamePtr = (StringPtr)"\pHardDisk:Ltrs:Current:Smith";
cmpb.ioNewName = (StringPtr)"\pHardDisk:Ltrs:Old";// last : optional
cmpb.ioDirID = cmpb.ioNewDirID = 0;                  // not needed since…
cmpb.ioVRefNum = 0;                                // ...using a full name
rc = PBCatMove( &cmpb, FALSE );
if ( rc ) { /* . . . handle the error . . . */ }

/* ===  move  a whole directory into the root === */

cmpb.ioNamePtr = (StringPtr)"\pHardDisk:Ltrs:";// last : optional
cmpb.ioDirID = 0;                   // not needed;  ioNamePtr…
cmpb.ioVRefNum = 0;                 // ...has the volume and dir
cmpb.ioNewName = 0;                     // not needed;  ioNewDirID given
cmpb.ioNewDirID = 2;                // 'Hard' ID of root directory
rc = PBCatMove( &cmpb, FALSE );
if ( rc ) { /* . . . handle the error . . . */ }
```