PBRename   Rename a file, volume, or directory

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

OSErr   **PBRename(**_pb_, _async_ **);**
ParmBlkPtr   _pb_ ;   address of a 50-byte IOParam structure
Boolean   _async_ ;   0=await completion; 1=immediate return
             returns   Error Code; 0=no error

PBRename changes the name of a file or volume. It does NOT move a file
from one directory to another (use **PBCatMove** for that).

_pb_ is the address of a 50-byte IOParam 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 current filename
→ ioVRefNum	short	2	22	Volume, drive, or directory reference
→ ioRefNum	short	2	24	File reference number
→ ioVersNum	SignedByte	1	26	Version of file to rename (use 0 on HFS)
→ ioMisc	Ptr	4	28	Address of desired new filename
← 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
bdNamErr	(-37)	Bad name
dirFulErr	(-33)	Directory full
dupFNErr	(-48)	Duplicate filename (new name already exists)
extFSErr	(-58)	External file system
fLckdErr	(-45)	File is locked
fnfErr	(-43)	File not found
fsRnErr	(-59)	File system rename error
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: **PBRename** works equally well for changing the name of a file, a volume
or directory name.

To Change the Name of a File

1 Set ioNamePtr to point to a pascal-style string of the file's current name.

2 Set ioVRefNum to the volume in which the file resides (0 for the default
volume, or use a working directory number as returned from Standard File
or **PBOpenWD).**

3 Set ioMisc to point to a pascal-style string of the desired new name for
the file. If ioNamePtr is a multiple-name pathname, the new name must
also describe a file in the same directory.

/* --- using single-name filenames ---

```
  */
  pb.ioNamePtr = (StringPtr) "\pJones";
  pb.ioVRefNum = theVolNum;              /* volume of old and new */
  pb.ioMisc = "\pSmith";
  rc = PBRename( &pb, FALSE );

  /* --- using multiple-name filenames ---
  */
  pb.ioNamePtr = (StringPtr) "\pHardDisk:Letters:1988:Jones";
  pb.ioVRefNum = 0;              /* ignored;  we used null pathname above */
  pb.ioMisc = (Ptr)"\pHardDisk:Letters:1988:Smith";
  rc = PBRename( &pb, FALSE );
```

To Change the Name of a Volume or Directory

1 Set ioNamePtr to point to a pascal-style string of the current name of the volume (or directory). If ioVRefNum identifies the volume fully, ioNamePtr may be set to NIL.

2 Set ioVRefNum to the volume reference number (0 for the default volume, or a working directory number as returned from Standard File or **PBOpenWD**). If ioNamePtr identifies the volume fully, ioVRefNum is ignored.

3 Set ioMisc to point to a pascal-style string of the desired new name for the volume.

```
  /* --- renaming a directory ---
  */
  pb.ioNamePtr = (StringPtr)"\pHardDisk:Letters:";
  pb.ioVRefNum = 0;                      /* ignored in this example */
  pb.ioMisc = (Ptr)"\pHardDisk:Ltrs:";
  rc = PBRename( &pb, FALSE );
```

PBRename cannot move a file to a different directory (use **PBCatMove** if you need to do that). Use **PBSetFInfo** to modify other file descriptive information. The high-level version of this function is **Rename**. The HFS-specific version is **PBHRename**.