

**PBSetVInfo**

Change volume name, backup date; lock/unlock it

#include &lt;Files.h&gt;

**File Manager (PBxxx)**

```

OSErr      PBSetVInfo(pb, async );
HParmBlkPtr pb ;           address of a 122-byte HVolumeParam structure
Boolean     async ;        0=await completion; 1=immediate return
returns    Error Code; 0=no error

```

**PBSetVInfo** lets you change a volume's name, its creation, modification, and backup date/time, its Finder information, and the locked/unlocked volume attribute.

*pb* is the address of a 122-byte HVolumeParam structure. The following fields are relevant:

Out-In Name	Type	Size	Offset	Description
-> ioCompletion	<u>ProcPtr</u>	4	12	Completion routine address (if <i>async</i> =TRUE)
-> ioNamePtr	<u>StringPtr</u>	4	18	Address of volume name (NIL=don't change)
-> ioVRefNum	<u>short</u>	2	22	Volume or drive number
-> ioVCrDate	<u>long</u>	4	30	Date/time volume created
-> ioVLsMod	<u>long</u>	4	34	Date/time volume information was modified
-> ioVAtrb	<u>short</u>	2	38	Volume attributes (bit 15=locked, etc.)
-> ioVClpSiz	<u>long</u>	4	52	Default clump size (bytes to allocate)
-> ioVBkUp	<u>long</u>	4	72	Date/time of most-recent backup
-> ioVSeqNum	<u>short</u>	2	76	(used internally)
-> ioVFndrInfo[8]	<u>long</u>	32	90	Information used by the Finder
<- 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
nsvErr     (-35)    No such volume
paramErr   (-50)    No default volume

```

Notes: The normal way to use this function is to call **PBHGetVInfo**, change one or two fields in the HVolumeParam structure, then call **PBSetVInfo**. Use **FlushVol** to ensure that the changes get written to the media.

If you are using a string in the *ioNamePtr* field to specify a volume name, the string must be in the following form

```
myVolParam.ioNamePtr = "\pMy HardDisk:"
```

The trailing colon on the string indicates that we are referring to a directory, not a file.

Of the volume attributes in *ioVAtrb*, only bit 15 (the lock bit) can be modified. Set it or reset it as follows:

```

pb.ioVAtrb |= 0x8000;           /* lock the volume */
pb.ioVAtrb &= 0x7FFFF;         /* unlock the volume */

```

Note that a file on a locked volume may be opened for writing, but all attempts to write to the file will fail.

Use **PBSetCatInfo** to modify information on files and directories, including the information used by the Finder.

**Note:** If you change the volume name via this command, the Finder and Standard File Package may not recognize the change immediately. Use **Rename** or **PBRename** instead.

The following example illustrates how to use **PBSetVInfo** to set the backup date/time to the current system date/time.

<b>Example</b>
----------------

```
#include <Files.h>
```

```
HVolumeParam    pb;                /* create the 122-byte structure */  
short          err;
```

```
pb.ioVolIndex = 1;    /* get info on first disk */  
err = PBHGetVInfo( &pb, FALSE );    /* synchronous request */  
if (err) { /* . . . handle the error . . . */ }
```

```
GetDateTime( &pb.ioVBkUp );    /* set the backup date */  
err = PBSetVInfo( &pb, FALSE );    /* install the change */  
if (err) { /* . . . handle the error . . . */ }
```

```
FlushVol( 0, pb.ioVRefNum );    /* flush to the media */
```