PBHGetVolParms   Get information about a shared HFS volume

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

OSErr   **PBHGetVolParms(** *pb*, *async* **);**
HParmBlkPtr *pb* ;   address of a 44-byte IOParam structure
Boolean   *async* ;   0=await completion; 1=immediate return
              returns   Error Code; 0=no error

   PBHGetVolParms obtains a variety of information about a specified volume
   including the volume name and the size and location of the buffer where the
   volume parameters are stored.

              pb is the address of a 44-byte ObjParam structure. The following
                   fields are relevant:

Out-In	Name	Type	Size	Offset	Description
→	ioCompletion	ProcPtr	4	12	Completion routine adddress (async =TRUE)
←	ioResult	OSErr	2	16	Error Code (0=no error, 1=not done yet)
→	ioVRefnum	short	2	22	Volume reference
←	ioBuffer	Ptr	4	32	Volume parameters address
→	ioReqCount	long	4	36	Buffer size
←	ioActCount	long	4	40	Volume parameters data length

              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: A volume's characteristics can change when the user enables and disables
          file sharing. You might have to make repeated calls to **PBHGetVolParms**
          to ensure that you have the current status of a volume.

          The ioCompletion field holds an optional pointer to a completion routine,
          which executes after **PBHGetVolParms** completes if you call the function
          asynchronously. Set this field to NIL when you call the function
          synchronously.

          PBHGetVolParms puts the result code in the ioResult field.

          Specify the volume to be described with a volume reference number, drive
          number, or working directory reference number in the ioVRefNum field.

          You must allocate memory to hold the returned attributes and put a pointer
          to the buffer in the ioBuffer field. Specify the size of the buffer in the
          ioReqCount field.

          PBHGetVolParms places the attributes information in the buffer pointed
          to by the ioBuffer field and specifies the actual length of the data in the
          ioActCount field.

          The new version of **PBHGetVolParms** uses a new format for the
          GetVolParmsInfoBuffer.

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short	vMVersion ;	Version number
long	vMAttrib ;	Bit vector of attributes (see vMAttrib constants)
Handle	vMLocalHand ;	Handle to private data
long	vMServerAdr ;	AppleTalk server address or zero
long	vMVolumeGrade ;	Approx. speed rating or zero if unrated
short	vMForeignPrivID;	Foreign Privilege model supported or zero if none

The vMVersion field specifies the version of the attributes buffer

The vMAttrib field contains 32 bits that describe the volume. When set, the bits in vMAttrib have these meanings:

Bit	Name	Meaning
31	bLimitFCBs	Limit the number of file control blocks used during copying to 8 instead of 16.
30	bLocalWList	Use the returned shared volume handle for theFinder's local window list.
29	bNoMiniFndr	Disable Mini Finder menu item.
28	bNoVNEdit	Lock volume name against editing.
27	bNoLclSync	Do not let Finder change the modification date.
26	bTrshOffLine	Zoom volume when it is unmounted.
25	bNoSwitchTo	Do not switch launch to any application on the volume.
24-21		Reserved.
20	bNoDeskItems	Do not place objects on the Finder desktop.
19	bNoBootBlks	Not a startup volume. Startup menu item disabled. Boot blocks not copied.
18	bAccessCntl	Volume supports AppleTalk AFP access-control interfaces. The **PBHGetLogInInfo**, **PBHGetDirAccess** , **PBHSetDirAccess** , **PBHMapID** and **PBHMapName** functions are supported. Special folder icons are used. The Access Privileges menu command is enabled for disk and folder items. The privileges field of **PBGetCatInfo** calls is assumed to be valid.
17	bNoSysDir	Volume doesn't support a system directory.Do not switch launch to this volume.
16	bHasExtFSVol	Volume is an external file system volume. Disk initialization package is not called. Erase Disk menu command is disabled.
15	bHasOpenDeny	Volume supports _OpenDeny and **PBHOpenRFDeny** For copy operations, source files are opened with reading enabled and writing denied; destination files are opened with writing enabled and reading and writing disabled.
14	bHasCopyFile	Volume supports _CopyFile. _CopyFile is used in copy and duplicate operations if both source and destination volumes have the same server address.
13	bHasMoveRename	Volume supports _MoveRename.
12	bHasDesktopMgr	Volume supports all of the new desktop functions (see **Finder Interface**)
11	bHasShortName	Volume supports a name that fits the shorter length requirements of another file system.
10	bHasFolderLock	Folder is locked.
9	bHasPersonalAccessPrivileges	Local file sharing is enabled.
8	bHasUserGroupList	Volume supports the Users and Groups file and thus the AFP privilege functions.
7	bHasCatSearch	Volume supports **PBCatSearch** .

6	bHasFileIDs	Volume supports file ID functions, includin **PBExchangeFiles** .
5	bHasBtreeMgr	Reserved for internal use.
4	bHasBlankAccessPrivileges	Volume supports inherited access privileges for folders.
3-0		Reserved.

The vMLocalHand field is reserved.

The vMServerAdr field specifies the internet address of the server that manages an AppleTalk server volume. This value is 0 if the volume does not have a server.

The vMVolumeGrade field specifies the relative speed rating of the volume. This scale is currently uncalibrated. Generally, lower values represent faster speeds, but a value of 0 means that the volume is unrated.

The vMForeignPrivID field specifies an operating system with which the volume can communicate access-control information. For more information about access-control privileges, see **Manipulating Privilege Information in Foreign File Systems** and **Accessing Privilege Information in Foreign File Systems** under the section entitled **Using the File Manager**. A value of 0 means that the volume cannot share privilege information with any other file system; a value of fsUnixPriv means it can share privilege information with the A/UX file system.