GetVolParmsInfoBuffer structure

#include <Files.h>

typedef struct **GetVolParmsInfoBuffer** {		Size	Offset	Description
short	vMVersion;	2	0	version number
long	vMAttrib;	4	2	bit vector of attributes; see vMAttrib constants
Handle	vMLocalHand;	4	6	handle to private data
long	vMServerAdr;	4	10	network server address
long	vMVolumeGrade;	4	14	relative speed rating
short	vMForeignPrivID;	4	18	access privilege model
} **GetVolParmsInfoBuffer**;		22		

Notes: The first four fields are the same as those in the original **PBHGetVolParms** attributes buffer, introduced with the network software described in the **File Manager Extensions** . The last two fields are new in system software version 7.0.

Offset	**Field**	**Size**	**Meaning**
14	vMVolumeGrade	long	Relative speed rating of volume. This scale is currently uncalibrated. Generally, lower values represent faster speeds. A value of 0 means the volume is unrated.
18	vMForeignPrivID	short	Code for the privilege model supported by the volume. This field now has two possible values: 0 represents a standard HFS volume, which might or might not support the AFP privilege model; fsUnixPriv represents an A/UX volume.

To determine whether the functions for manipulating privilege information in foreign file systems are available on a volume, check the vMForeignPrivID field in the attributes buffer. If this field contains a nonzero value, the functions are available.

PBHGetVolParms returns the bulk of its volume description in the vMAttrib field of the attributes buffer. Version 7.0 has defined additional bits in the vMAttrib field to signal whether the following features are present.

Feature	**Constant**
Volume supports **PBCatSearch**	bHasCatSearch
Volume supports the file ID functions, including **PBExchangeFiles**	bHasFileIDs
Volume supports inherited access privileges for folders	bHasBlankAccessPrivileges
Volume supports the **Desk Manager** functions, described in the	bHasDesktopMgr

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Volume supports a shorter name, for compatibility with other file systems	bHasShortName
Local file sharing is enabled	bHasPersonalAccessPrivileges
Volume supports the Users and Groups file and thus the AFP privilege functions, documented in the **File Manager**	bHasUserGroupList

The description of **PBHGetVolParms** lists all of the bits in the vMAttrib field and their meanings.

The following code example illustrates how you can determine whether the **PBCatSearch** function is available before using it to search a volume's catalog.

```
// Testing for PBCatSearch

// Assumes inclusion of MacHeaders

// prototype your function like this prior to calling it
Boolean SupportsCatSearch(short);

Boolean SupportsCatSearch(short  yourVRef)
{
    HParamBlockRec myHPBRec;
    HParmBlkPtr myHPBPtr;
    GetVolParmsInfoBuffer VParmsBuf;
    OSErr myErr;

    // Error handler prototype
    void DoError(OSErr);

    myHPBPtr  = &myHPBRec;

    myHPBRec.ioParam.ioCompletion = nil;   // no completion routine
    myHPBRec.ioParam.ioNamePtr = nil;
    myHPBRec.ioParam.ioVRefNum = yourVRef;
    myHPBRec.ioParam.ioBuffer = (Ptr)&VParmsBuf;
    myHPBRec.ioParam.ioReqCount = sizeof(GetVolParmsInfoBuffer);

    myErr = PBHGetVolParms(myHPBPtr, FALSE);

    if ( myErr )
        // process the error
        DoError(myErr);

    if (  VParmsBuf.vMAttrib &  bHasCatSearch << 1 )
        return TRUE;
    else
        return FALSE;
}
```

To determine whether the remote mounting functions are available, you must attempt to call one of them. If they are not available, the functions return a result code of paramErr.