



This is part of **Family API** which allow to create dual-os version of program runs under OS/2 and DOS

**Note:** This is legacy API call. It is recommended to use 32-bit equivalent

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## DosQFSInfo

This call queries information from a file system device.

### Syntax

DosQFSInfo (DriveNumber, FSInfoLevel, FSInfoBuf, FSInfoBufSize)

### Parameters

- DriveNumber (USHORT) - input : Logical drive number (0 = default, 1 = A, and so on).

:When a logical drive is specified, the media in the drive is examined (local drive only) and the request is passed to the FSD responsible for managing that media or to the FSD that is attached to the drive.

- ;FSInfoLevel (USHORT) - input : Level of file information required.
- ;FSInfoBuf (PBYTE) - output : Address of the storage area where the system returns the requested level of file information.

:Level 1 Information :For FSInfoLevel = 1, information is returned in the following structure:

- ::filesysid (ULONG) - File system ID.
- ::sectornum (ULONG) - Number of sectors per allocation unit.
- ::unitnum (ULONG) - Number of allocation units.
- ::unitavail (ULONG) - Number of allocation units available.
- ::bytesnum (USHORT) - Number of bytes per sector.

:Level 2 Information :For FSInfoLevel = 2, the information is returned in the following format:

- ::reserved (ULONG) - Reserved
- ::volumelength (BYTE) - Length of the volume label, not including the null.
- ::volumelabel (CHAR) - Volume label ASCIIZ string.
- ;FSInfoBufSize (USHORT) : Length of the buffer.

### Return Code

rc (USHORT) - return Return code descriptions are:

- 0 NO\_ERROR
- 15 ERROR\_INVALID\_DRIVE
- 111 ERROR\_BUFFER\_OVERFLOW
- 124 ERROR\_INVALID\_LEVEL
- 125 ERROR\_NO\_VOLUME\_LABEL

### Remarks

Trailing blanks supplied at volume label definition time are not considered to be part of the label and are therefore not returned as valid label data. Volume label is limited to a length of 11 bytes.

Volume Serial Number is a unique 32-bit number used by OS/2 to positively identify its disk/diskette volumes. The hard error prompts the user for an unmounted removable volume by displaying both the Volume Serial Number (as an 8 digit hexadecimal number) and the Volume Label.

If there is no volume serial number on the disk/diskette, the volume serial number information is returned as binary zeros. If there is no volume label on the disk/diskette, the volume label information is returned as blank spaces. If there is no volume serial number and/or volume label for disk/diskette volumes formatted by DOS 3.X, this information is not displayed by the Hard Error Handler.

### Example Code

### C Binding

```
<PRE> typedef struct _FSALLOCATE {
```

```
    ULONG   idFileSystem; /* file system ID */
    ULONG   cSectorUnit; /* number sectors per allocation unit */
    ULONG   cUnit;       /* number of allocation units */
    ULONG   cUnitAvail; /* available allocation units */
    USHORT  cbSector;    /* bytes per sector */
```

```
} FSALLOCATE;
```

```
typedef struct _FDATE { /* fdate */
```

```
    unsigned day : 5; /* binary day for directory entry */
```

```
    unsigned month : 4; /* binary month for directory entry */
    unsigned year : 7; /* binary year for directory entry */
```

```
} FDATE;
```

```
typedef struct _FTIME { /* ftime */
```

```
    unsigned twosecs : 5; /* binary number of two-second increments */
```

```
unsigned minutes : 6; /* binary number of minutes */
unsigned hours   : 5; /* binary number of hours  */
```

```
} FTIME;
```

```
typedef struct _FSINFO { /* fsinf */
```

```
    FDATE fdateCreation;
    FTIME ftimeCreation;
    VOLUMELABEL vol;
```

```
} FSINFO;
```

```
typedef struct _VOLUMELABEL { /* vol */
```

```
    BYTE cch;
    CHAR szVolLabel[12];
```

```
} VOLUMELABEL;
```

```
#define INCL_DOSFILEMGR
```

```
USHORT rc = DosQFSInfo(DriveNumber, FSInfoLevel, FSInfoBuf, FSInfoBufSize);
```

```
USHORT DriveNumber; /* Drive number */ USHORT FSInfoLevel; /* File system data required */ PBYTE
FSInfoBuf; /* File system info buffer */ USHORT FSInfoBufSize; /* File system info buffer size */
```

```
USHORT rc; /* return code */ </PRE>
```

## MASM Binding

```
FSALLOCATE struc
```

```
    fsalloc_idFileSystem      dd ?
    fsalloc_cSectorUnit      dd ?
    fsalloc_cUnit            dd ?
    fsalloc_cUnitAvail       dd ?
    fsalloc_cbSector         dw ?
```

```
FSALLOCATE ends
```

```
EXTRN DosQFSInfo:FAR
```

```
INCL_DOSFILEMGR EQU 1
```

```
PUSH  WORD    DriveNumber    ;Drive number
PUSH  WORD    FSInfoLevel    ;File system data required
PUSH@ OTHER   FSInfoBuf      ;File system info buffer (returned)
PUSH  WORD    FSInfoBufSize  ;File system info buffer size
CALL  DosQFSInfo
```

```
Returns WORD
```

# Note

Text based on <http://www.edm2.com/index.php/DosQFSInfo>

Family API		
DOS	Process Manager	DosBeep DosExit DosSleep DosExecPgm
	File Manager	DosChDir DosChgFilePtr DosClose DosDelete DosDupHandle DosMkDir DosMove DosQCurDir DosQCurDisk DosSetFileMode DosOpen DosQFileInfo DosRead DosQFileMode DosQFSInfo DosQVerify DosRmdir DosSelectDisk DosFindClose DosFindFirst DosFindNext DosSetFileInfo DosSetVerify DosWrite DosFileLocks DosSetFHandState DosNewSize DosBufReset DosQFHandState DosSetFSInfo DosShutdown
	Memory Manager	DosFreeSeg DosSubAlloc DosSubFree DosSubSet DosAllocHuge DosAllocSeg DosReallocHuge DosReallocSeg DosGetHugeShift DosCreateCSAlias
	NLS	DosCaseMap DosGetCtryInfo DosGetDBCSEv DosSetCtryCode DosGetCollate DosGetMessage DosInsMessage DosPutMessage
	Date and Time	DosSetDateTime DosGetDateTime
	Devices	DosDevConfig DosDevIOCtl DosDevIOCtl2
	Signals	DosHoldSignal DosSetSigHandler
	Misc	BadDynLink DosGetEnv DosGetMachineMode DosGetVersion DosError DosErrClass DosSetVec
KBD	KbdCharIn KbdFlushBuffer KbdGetStatus KbdSetStatus KbdStringIn KbdPeek	
VIO	VioGetBuf VioGetConfig VioGetCurPos VioGetCurType VioGetPhysBuf VioReadCellStr VioReadCharStr VioScrollUp VioScrollDn VioScrollLf VioScrollRt VioScrUnLock VioSetCurPos VioSetCurType VioSetMode VioGetMode VioShowBuf VioWrtCellStr VioWrtCharStr VioWrtCharStrAtt VioWrtNAttr VioWrtNCell VioWrtNChar VioWrtTTY VioScrLock VioPopUp	
Tools	BIND	
Modules	DOSCALLS.DLL VIOCALLS.DLL KBDCALLS.DLL MSG.DLL	
Libraries	API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB	

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