



**Note:** This API call is for DOS and Win16 personality only. Use [Family API](#) for portability.

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# Int 21H, AH=32H

## Version

2 and higher

## Brief

GET DOS DRIVE PARAMETER BLOCK FOR SPECIFIC DRIVE

## Family API

## Input

```
AH = 32h
DL = drive number (00h = default, 01h = A:, etc)
```

## Return

AL = status

```
00h successful
    DS:BX -> Drive Parameter Block (DPB) (see #01395) for
specified
           drive
FFh invalid or network drive
```

## Notes

```
the OS/2 compatibility box supports the DOS 3.3 version of this call
    except for the DWORD at offset 12h
    this call updates the DPB by reading the disk; the DPB may be accessed
```

via the DOS list of lists (see #01627 at AH=52h) if disk access is not desirable.  
undocumented prior to the release of DOS 5.0; only the DOS 4.0+ version of the DPB has been documented, however supported by DR DOS 3.41+; DR DOS 3.41-6.0 return the same data as MS-DOS 3.31  
IBM ROM-DOS v4.0 also reports invalid/network (AL=FFh) on the ROM drive

Format of DOS Drive Parameter Block: Offset Size Description (Table 01395) 00h BYTE drive number (00h = A:, 01h = B:, etc) 01h BYTE unit number within device driver 02h WORD bytes per sector 04h BYTE highest sector number within a cluster 05h BYTE shift count to convert clusters into sectors 06h WORD number of reserved sectors at beginning of drive 08h BYTE number of FATs 09h WORD number of root directory entries 0Bh WORD number of first sector containing user data 0Dh WORD highest cluster number (number of data clusters + 1)

16-bit FAT if greater than 0FF6h, else 12-bit FAT

0Fh BYTE number of sectors per FAT 10h WORD sector number of first directory sector 12h DWORD address of device driver header (see #01646) 16h BYTE media ID byte (see #01356) 17h BYTE 00h if disk accessed, FFh if not 18h DWORD pointer to next DPB —DOS 2.x— 1Ch WORD cluster containing start of current directory, 0000h=root,

FFFFh = unknown

1Eh 64 BYTES ASCIZ pathname of current directory for drive —DOS 3.x— 1Ch WORD cluster at which to start search for free space when writing 1Eh WORD number of free clusters on drive, FFFFh = unknown —DOS 4.0-6.0— 0Fh WORD number of sectors per FAT 11h WORD sector number of first directory sector 13h DWORD address of device driver header (see #01646) 17h BYTE media ID byte (see #01356) 18h BYTE 00h if disk accessed, FFh if not 19h DWORD pointer to next DPB 1Dh WORD cluster at which to start search for free space when writing,

usually the last cluster allocated

1Fh WORD number of free clusters on drive, FFFFh = unknown

## See also

AH=1Fh,AH=52h,AX=7302h

## Note

Text based on [Ralf Brown Interrupt List Release 61](#)

| <b>DOS API</b>              |  |
|-----------------------------|--|
| Process manager             | INT 20H, <b>INT 21H</b> : 00H, 25H, 26H, 31H, 34H, 35H, 4BH, 4CH, 4DH, 50H, 51H, 52H, 55H, 62H, INT 22H, INT 27H, INT 28H  |
| File manager                | INT 25H, INT 26H, <b>INT 21H</b> : 0DH, 0EH, 0FH, 10H, 11H, 12H, 13H, 14H, 15H, 16H, 17H, 19H, 1AH, 1BH, 1CH, 21H, 22H, 23H, 24H, 27H, 28H, 29H, 2EH, 2FH, 32H, 3305H, 36H, 39H, 3AH, 3BH, 3CH, 3DH, 3EH, 3FH, 40H, 41H, 42H, 4300H, 4301H, 45H, 45H, 46H, 4EH, 4FH, 54H, 56H, 5700H, 5701H, 5AH, 5BH, 5c00H, 5c01H, 60H, 67H, 68H, 6900H, 6901H, 6AH, 6CH |
| Character Device I/O        | INT 29H, <b>INT 21H</b> : 01H, 02H, 03H, 04H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0AH, 0CH, 5D07H, 5D08H, 5D09H, 5D0AH  |
| Signals                     | INT 23H, INT 24H, <b>INT 21H</b> : 3300H, 3301H, 3302H   |
| Memory manager              | <b>INT 21H</b> : 48H, 49H, 4AH, 5800H, 5801H, 5802H, 5803H   |
| Date and Time               | <b>INT 21H</b> : 2AH, 2BH, 2CH, 2DH  |
| Misc                        | <b>INT 21H</b> : 30H, 3306H, 3700H, 3701H, 3702H, 3703H, 59H   |
| NLS                         | <b>INT 21H</b> : 3303H, 3304H, 3800H, 3801H, 6300H, 6301H, 6301H, 6500H, 6501H, 6502H, 6503H, 6504H, 6505H, 6506H, 6507H, 6520H, 6521H, 6522H, 6523H, 65A0H, 65A1H, 65A2H, 6601H, 6602H  |
| Devices                     | <b>INT 21H</b> : 4400H, 4401H, 4402H, 4403H, 4404H, 4405H, 4406H, 4407H, 4408H, 4409H, 440AH, 440BH, 440CH, 440DH, 440EH, 440FH, 4410H, 4411H, 53H   |
| Network                     | <b>INT 21H</b> : 5E00H, 5E01H, 5E02H, 5E03H, 5E04H, 5E05H, 5F00H, 5F01H, 5F02H, 5F03H, 5F04H, 5F05H, 5F07H, 5F08H  |
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| Video I/O                   | @SetMode @SetCurSz @SetCurPos @GetCur @SetPage @ScrollUp @ScrollDn @Scroll @GetChAtr @PutChAtr @PutCh @SetPalet @SetColor @SetDot @GetDot @WrtTTY @VideoState @GetMode @GetDisplay @GetVideoState @GetEGAInfo @Cls   |
| Hardware info               | @Equipment @MemSize  |
| Serial I/O                  | @AuxInit @AuxSendChar @AuxRecieveChar @AuxStatus   |
| Tape I/O                    | @TapeOn @TapeOff @TapeRead @TapeWrite  |
| Keyboard I/O                | @KbdStatus @CharIn @CharPeek   |
| Printer I/O                 | @PrnPrint @PrnInit @PrnStatus  |
| Disk I/O                    | @DskReset @DskStatus @DskRead @DskWrite @DskVerify @DskFormat  |
| Date and Time               | @SetTime @GetTime  |
| Mouse                       | @MouInit @MouShowPointer @MouStatus @MouSetPos @MouSetMickey @MouRegion  |
| Memory manager              | @ModBlok SET_BLOCK   |

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| 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 DosDevIOct1 DosDevIOct2   |
|            | 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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