

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**
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

DOS API	
Process manager	INT 20H, **INT 21H**: 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, **INT 21H**: 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, **INT 21H**: 01H, 02H, 03H, 04H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0AH, 0CH, 5D07H, 5D08H, 5D09H, 5D0AH
Signals	INT 23H, INT 24H, **INT 21H**: 3300H, 3301H, 3302H
Memory manager	**INT 21H**: 48H, 49H, 4AH, 5800H, 5801H, 5802H, 5803H
Date and Time	**INT 21H**: 2AH, 2BH, 2CH, 2DH
Misc	**INT 21H**: 30H, 3306H, 3700H, 3701H, 3702H, 3703H, 59H
NLS	**INT 21H**: 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	**INT 21H**: 4400H, 4401H, 4402H, 4403H, 4404H, 4405H, 4406H, 4407H, 4408H, 4409H, 440AH, 440BH, 440CH, 440DH, 440EH, 440FH, 4410H, 4411H, 53H
Network	**INT 21H**: 5E00H, 5E01H, 5E02H, 5E03H, 5E04H, 5E05H, 5F00H, 5F01H, 5F02H, 5F03H, 5F04H, 5F05H, 5F07H, 5F08H
osFree Macro Library	
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 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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