



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

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# Int 21H, AH=30H

## Version

2 and higher

## Brief

GET DOS VERSION

## Family API

## Input

```
AH = 30h
```

—DOS 5+ —

```
AL = what to return in BH
    00h OEM number (see #01394)
    01h version flag
```

## Return

AL = major version number (00h if DOS 1.x)

```
AH = minor version number
BL:CX = 24-bit user serial number (most versions do not use this)
```

—if DOS <5 or AL=00h—

```
BH = MS-DOS OEM number (see #01394)
```

—if DOS 5+ and AL=01h—

```
BH = version flag  
    bit 3: DOS is in ROM  
    other: reserved (0)
```

## Notes

the OS/2 v1.x Compatibility Box returns major version 0Ah (10)

the OS/2 v2.x Compatibility Box returns major version 14h (20)

OS/2 Warp 3.0 Virtual DOS Machines report v20.30; Warp 4 VDMs report v20.40.

the Windows NT DOS box returns version 5.00, subject to SETVER

DOS 4.01 and 4.02 identify themselves as version 4.00; use INT 21/AH=87h to distinguish between the original European MS-DOS 4.0 and the later PC-DOS 4.0x and MS-DOS 4.0x

IBM DOS 6.1 reports its version as 6.00; use the OEM number to distinguish between MS-DOS 6.00 and IBM DOS 6.1 (there was never an IBM DOS 6.0)

IBM's PC DOS 7 and Y2K updates report themselves as IBM 7.0 to be distinguished from the MS-DOS 7.0 portion of Windows 95.

MS-DOS 6.21 reports its version as 6.20; version 6.22 returns the correct value

Windows95 returns version 7.00 (the underlying MS-DOS), as did the "Chicago" beta (reported in Microsoft Systems Journal, August 1994); Windows95 OSR2 and OSR2.5 (OPK3) return MS version 7.10

DR DOS 5.0 and 6.0 report version 3.31; Novell DOS 7 reports IBM v6.00, which some software displays as IBM DOS v6.10 (because of the version mismatch in true IBM DOS, as mentioned above). The Novell DOS 7 SETVER.EXE has an undocumented option /G x.y which sets the "global" DOS version returned by this function for all executables not given a specific version number in SETVER to major version x and minor version y.

Heiko Goeman's Advanced WinDOS 2.10/2.11/2.21 returns "IBM" DOS 5.00 (subject to SETVER) and serial number 0.

All versions of CCI Multiuser DOS up to "CCI Multiuser DOS 7.22 Gold" as of 1997-02-10 report DOS 3.31.

DR DOS 3.31, 3.32, 3.33, 3.34, 3.35, 3.40, 3.41, 5.0, 6.0 and DR PalmDOS/NetWare PalmDOS 1.0 report version 3.31; DR DOS "Panther" BETA 1 and "StarTrek" report as 5.0. Novell DOS 7, OpenDOS 7.01, DR-OpenDOS 7.02, DR-DOS 7.02, DR-DOS 7.03 all report themselves as IBM 6.00, which some software displays as IBM DOS 6.10 (because of the version mismatch in true IBM DOS, as mentioned above). Use INT 21/AX=4452h to distinguish the DR-DOS family from PC DOS.

The Novell DOS 7 and OpenDOS 7.01 SETVER.EXE has an undocumented option /G x.y which sets the "global" DOS version returned by this function for all executables not given a specific version number in SETVER to major version x >= 5 and minor version y = 0..254, y = 255 is used to disable the BDOS

version check at INT 21/AX=4452h.

A slightly modified option has been documented for DR-OpenDOS 7.02+: in /X mode it now allows for  $x \geq 1$ , while  $y \geq 100$  requires /X mode, and  $y \geq 128$  is used to control advanced version control means now (see below).

DR-DOS 7.02+ IBMDOS.COM (since 1998-01-10) now recognizes optional paths to filenames stored in the SETVER list. Previously such entries were never found. This allows for a three staged model for SETVERed versions: highest priority = entry with path is matching. middle priority = entry without path is matching. lowest priority = use global version (SETVER /G).

The DR-DOS 7.02+ SETVER 1.01+ (1998-01-12) has also been enhanced to allow DOS \*and\* BDOS version faking (see INT 21/AX=4452h): In /X mode, setting a sub-version of  $y = 128..255$  will be reported as 0..127 DOS sub-version, sub-versions of  $y = 100..127$  will instead be used to report this value as BDOS version (64h..7Fh) via INT 21/AX=4452h, and the DOS revision stored in PCM\_HEADER in the IBMDOS.COM file will be used to report the DOS sub-version (usually this holds 0, but it can be patched to other values, see INT 21/AX=4452h !!!). Note, that DR-DOS SHARE 2.05+ (1998-01-05) has relaxed version checking, and will install on any DOS revision 0..127, as long as run on a DR-DOS 72h+ kernel (formerly it was bound to a revision byte of 0 only).

Under Novell DOS 7+, the SETVERing also affects the version number WORD stored at offset +40h in each program's PSP (see #01378). This holds true even for special sub-versions of 100..255 (see INT 21/AX=4452h).

generic MS-DOS 3.30, Compaq MS-DOS 3.31, and others identify themselves as PC-DOS by returning OEM number 00h

the version returned under DOS 4.0x may be modified by entries in the special program list (see #01662 at AH=52h); the version returned under DOS 5+ may be modified by SETVER-use AX=3306h to get the true version number

Values for DOS OEM number:

00h	* IBM - (Novell DOS, Caldera OpenDOS, DR-OpenDOS, and DR-DOS 7.02+ report IBM as their OEM)
01h	* Compaq
02h	* MS Packaged Product
04h	* AT&T
05h	* ZDS (Zenith Electronics, Zenith Electronics) Note: Zenith DOS 3.30 supports >32MB hard disks; this OEM ID can be used to detect that support
06h	* Hewlett-Packard
07h	* Zenith Data Systems (ZDS, Groupe Bull), for DOS 5.0+
08h	* Tandon
09h	* AST (AST Europe Ltd.)
0Ah	* Asem
0Bh	* Hantarex
0Ch	* SystemsLine
0Dh	* Packard-Bell
0Eh	* Intercomp
0Fh	* Unibit

10h	* Unidata
16h	* DEC
17h	* Olivetti DOS
23h	* Olivetti (may have been a typo, since 23 = 17h)
28h	* Texas Instruments
29h	* Toshiba
33h	- Novell (Windows/386 device IDs only)
34h	* MS Multimedia Systems (Windows/386 device IDs only)
35h	* MS Multimedia Systems (Windows/386 device IDs only)
4Dh	* Hewlett-Packard (HP)
5Eh	- RxDOS (Api Software & Mike Podanoffsky) <a href="http://www.freedos.org/">http://www.freedos.org/</a>
66h	- PhysTechSoft (PTS-DOS) <a href="http://www.phystechsoft.com/">http://www.phystechsoft.com/</a> probably Paragon Technology Systems Corporation PTS-DOS as well
99h	- General Software's Embedded DOS
CDh	- Paragon Technology Systems Corporation ("Source DOS" S/DOS 1.0+) (see also INT 21/AH=20h "S/DOS")
EDh	- reserved for future OpenDOS/DR-DOS based projects <a href="http://www.drDOS.org">http://www.drDOS.org</a>
EEh	DR DOS
EFh	Novell DOS Note: released versions of Novell DOS 7 use OEM ID 00h instead
FDh	FreeDOS <a href="http://www.freedos.org/">http://www.freedos.org/</a>
FFh	* Microsoft, Phoenix (listed as "undefined" by Microsoft)

Notes: '\*' indicates an OEM release of MS-DOS, while '-' indicates an OEM number used by a non-Microsoft DOS

## See also

AX=3000h/BX=3000h,AX=3306h,AX=4452h,AH=87h,INT 15/AX=4900h AH=20h "S/DOS",INT 2F/AX=122Fh,INT 2F/AX=4010h,INT 2F/AX=4A33h INT 2F/AX=E002h

## Note

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

DOS API	
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

<b>DOS API</b>	
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

<b>osFree Macro Library</b>	
Video I/O	<a href="#">@SetMode</a> <a href="#">@SetCurSz</a> <a href="#">@SetCurPos</a> <a href="#">@GetCur</a> <a href="#">@SetPage</a> <a href="#">@ScrollUp</a> <a href="#">@ScrollDn</a> <a href="#">@Scroll</a> <a href="#">@GetChAtr</a> <a href="#">@PutChAtr</a> <a href="#">@PutCh</a> <a href="#">@SetPalet</a> <a href="#">@SetColor</a> <a href="#">@SetDot</a> <a href="#">@GetDot</a> <a href="#">@WrtTTY</a> <a href="#">@VideoState</a> <a href="#">@GetMode</a> <a href="#">@GetDisplay</a> <a href="#">@GetVideoState</a> <a href="#">@GetEGAInfo</a> <a href="#">@Cls</a>
Hardware info	<a href="#">@Equipment</a> <a href="#">@MemSize</a>
Serial I/O	<a href="#">@AuxInit</a> <a href="#">@AuxSendChar</a> <a href="#">@AuxRecieveChar</a> <a href="#">@AuxStatus</a>
Tape I/O	<a href="#">@TapeOn</a> <a href="#">@TapeOff</a> <a href="#">@TapeRead</a> <a href="#">@TapeWrite</a>
Keyboard I/O	<a href="#">@KbdStatus</a> <a href="#">@CharIn</a> <a href="#">@CharPeek</a>
Printer I/O	<a href="#">@PrnPrint</a> <a href="#">@PrnInit</a> <a href="#">@PrnStatus</a>
Disk I/O	<a href="#">@DskReset</a> <a href="#">@DskStatus</a> <a href="#">@DskRead</a> <a href="#">@DskWrite</a> <a href="#">@DskVerify</a> <a href="#">@DskFormat</a>
Date and Time	<a href="#">@SetTime</a> <a href="#">@GetTime</a>
Mouse	<a href="#">@MouInit</a> <a href="#">@MouShowPointer</a> <a href="#">@MouStatus</a> <a href="#">@MouSetPos</a> <a href="#">@MouSetMickey</a> <a href="#">@MouRegion</a>
Memory manager	<a href="#">@ModBlok</a> <a href="#">SET_BLOCK</a>

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<b>Family API</b>		
DOS	Process Manager	<a href="#">DosBeep</a> <a href="#">DosExit</a> <a href="#">DosSleep</a> <a href="#">DosExecPgm</a>
	File Manager	<a href="#">DosChDir</a> <a href="#">DosChgFilePtr</a> <a href="#">DosClose</a> <a href="#">DosDelete</a> <a href="#">DosDupHandle</a> <a href="#">DosMkDir</a> <a href="#">DosMove</a> <a href="#">DosQCurDir</a> <a href="#">DosQCurDisk</a> <a href="#">DosSetFileMode</a> <a href="#">DosOpen</a> <a href="#">DosQFileInfo</a> <a href="#">DosRead</a> <a href="#">DosQFileMode</a> <a href="#">DosQFSInfo</a> <a href="#">DosQVerify</a> <a href="#">DosRmdir</a> <a href="#">DosSelectDisk</a> <a href="#">DosFindClose</a> <a href="#">DosFindFirst</a> <a href="#">DosFindNext</a> <a href="#">DosSetFileInfo</a> <a href="#">DosSetVerify</a> <a href="#">DosWrite</a> <a href="#">DosFileLocks</a> <a href="#">DosSetFHandState</a> <a href="#">DosNewSize</a> <a href="#">DosBufReset</a> <a href="#">DosQFHandState</a> <a href="#">DosSetFSinfo</a> <a href="#">DosShutdown</a>
	Memory Manager	<a href="#">DosFreeSeg</a> <a href="#">DosSubAlloc</a> <a href="#">DosSubFree</a> <a href="#">DosSubSet</a> <a href="#">DosAllocHuge</a> <a href="#">DosAllocSeg</a> <a href="#">DosReallocHuge</a> <a href="#">DosReallocSeg</a> <a href="#">DosGetHugeShift</a> <a href="#">DosCreateCSAlias</a>
	NLS	<a href="#">DosCaseMap</a> <a href="#">DosGetCtryInfo</a> <a href="#">DosGetDBCSEv</a> <a href="#">DosSetCtryCode</a> <a href="#">DosGetCollate</a> <a href="#">DosGetMessage</a> <a href="#">DosInsMessage</a> <a href="#">DosPutMessage</a>
	Date and Time	<a href="#">DosSetDateTime</a> <a href="#">DosGetDateTime</a>
	Devices	<a href="#">DosDevConfig</a> <a href="#">DosDevIOctI</a> <a href="#">DosDevIOctI2</a>
	Signals	<a href="#">DosHoldSignal</a> <a href="#">DosSetSigHandler</a>
	Misc	<a href="#">BadDynLink</a> <a href="#">DosGetEnv</a> <a href="#">DosGetMachineMode</a> <a href="#">DosGetVersion</a> <a href="#">DosError</a> <a href="#">DosErrClass</a> <a href="#">DosSetVec</a>
KBD		<a href="#">KbdCharIn</a> <a href="#">KbdFlushBuffer</a> <a href="#">KbdGetStatus</a> <a href="#">KbdSetStatus</a> <a href="#">KbdStringIn</a> <a href="#">KbdPeek</a>

<b>Family API</b>	
VIO	<a href="#">VioGetBuf</a> <a href="#">VioGetConfig</a> <a href="#">VioGetCurPos</a> <a href="#">VioGetCurType</a> <a href="#">VioGetPhysBuf</a> <a href="#">VioReadCellStr</a> <a href="#">VioReadCharStr</a> <a href="#">VioScrollUp</a> <a href="#">VioScrollDn</a> <a href="#">VioScrollLf</a> <a href="#">VioScrollRt</a> <a href="#">VioScrUnLock</a> <a href="#">VioSetCurPos</a> <a href="#">VioSetCurType</a> <a href="#">VioSetMode</a> <a href="#">VioGetMode</a> <a href="#">VioShowBuf</a> <a href="#">VioWrtCellStr</a> <a href="#">VioWrtCharStr</a> <a href="#">VioWrtCharStrAtt</a> <a href="#">VioWrtNAttr</a> <a href="#">VioWrtNCell</a> <a href="#">VioWrtNChar</a> <a href="#">VioWrtTTY</a> <a href="#">VioScrLock</a> <a href="#">VioPopUp</a>
Tools	<a href="#">BIND</a>
Modules	<a href="#">DOSCALLS.DLL</a> <a href="#">VIOCALLS.DLL</a> <a href="#">KBDCALLS.DLL</a> <a href="#">MSG.DLL</a>
Libraries	<a href="#">API.LIB</a> <a href="#">OS2386.LIB</a> <a href="#">FAPI.LIB</a> <a href="#">DOSCALLS.LIB</a> <a href="#">SUBCALLS.LIB</a>

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