



**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

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 >= 1, while y >= 100 requires /X

mode,

and y >= 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

(Table 01394) Values for DOS OEM number: 00h \* IBM

1. (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) <http://www.freedos.org/> 66h - PhysTechSoft (PTS-DOS) <http://www.phystechsoft.com/>

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 <http://www.drDOS.org> EEh DR DOS EFh Novell DOS

Note: released versions of Novell DOS 7 use OEM ID 00h instead

FDh FreeDOS <http://www.freedos.org/> 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  
known OEM releases of MS-DOS:  
AT&T DOS 3.10 (uses DOS 2.x cluster sizes and FAT structures)  
Commodore DOS 3  
Compaq DOS 3.31 (>32MB partitions similar to MS-DOS 4+)  
Computerland DOS 3.10 (mix of DOS 2.x and 3.x disk mechanisms)  
Eagle MS-DOS 1.25 (DOS 1.x with some hard disk support and built-in  
ANSI.SYS functionality)  
Epson Equity III DOS 3.10 (different clustering)  
Leading Edge  
NEC DOS 3.3  
Olivetti DOS 2.11  
Phoenix DOS 3.3, 4.01  
Sanyo DOS 3.2  
Tandy  
Toshiba DOS  
Unisys  
Wyse MS-DOS 3  
Zenith DOS 2.x (uses Zenith disk mechanism, extra drives at G:)  
Zenith DOS 3.x (can be configured for Zenith or MS-DOS mechanism)

## Zenith DOS 3.3 PLUS (&gt;32MB partitions similar to MS-DOS 4+)

## 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](#)

<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
<b>osFree Macro Library</b>	
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

<b>osFree Macro Library</b>	
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="#">DosDevIOct1</a> <a href="#">DosDevIOct2</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>	
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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