



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

**Note: [osFree Macro Library](#) provides macros for most of functions**

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## Int 10H

Video BIOS API. All registers saved on entry and restores on return.

### BIOS Interrupts

| Function            | Description                  | Version |
|---------------------|------------------------------|---------|
| <a href="#">00H</a> | Set Video Mode               | 1+      |
| <a href="#">01H</a> | Set Cursor Shape Size        | 1+      |
| <a href="#">02H</a> | Set Cursor Position          | 1+      |
| <a href="#">03H</a> | Get Current Cursor Position  | 1+      |
| <a href="#">04H</a> |                              | 1+      |
| <a href="#">05H</a> | Set Active Video Page        | 1+      |
| <a href="#">06H</a> | Scroll Screen Area Up        | 1+      |
| <a href="#">07H</a> | Scroll Screen Area Down      | 1+      |
| <a href="#">08H</a> | Get Character Attribute      | 1+      |
| <a href="#">09H</a> | Print Char With Attribute    | 1+      |
| <a href="#">0AH</a> | Print Char                   | 1+      |
| <a href="#">0BH</a> | Set Palette/Color            | 1+      |
| <a href="#">0CH</a> | Draw Pixel                   | 1+      |
| <a href="#">0DH</a> | Get Pixel                    | 1+      |
| <a href="#">0EH</a> | Write char in TTY mode       | 1+      |
| <a href="#">0FH</a> | Get Current Video Mode/State | 1+      |

#### DOS API

|                      |   |
|----------------------|---|
| Process manager      | <a href="#">INT 20H</a> , <a href="#">INT 21H</a> : <a href="#">00H</a> , <a href="#">25H</a> , <a href="#">26H</a> , <a href="#">31H</a> , <a href="#">34H</a> , <a href="#">35H</a> , <a href="#">4BH</a> , <a href="#">4CH</a> , <a href="#">4DH</a> , <a href="#">50H</a> , <a href="#">51H</a> , <a href="#">52H</a> , <a href="#">55H</a> , <a href="#">62H</a> , <a href="#">INT 22H</a> , <a href="#">INT 27H</a> , <a href="#">INT 28H</a>   |
| File manager         | <a href="#">INT 25H</a> , <a href="#">INT 26H</a> , <a href="#">INT 21H</a> : <a href="#">0DH</a> , <a href="#">0EH</a> , <a href="#">0FH</a> , <a href="#">10H</a> , <a href="#">11H</a> , <a href="#">12H</a> , <a href="#">13H</a> , <a href="#">14H</a> , <a href="#">15H</a> , <a href="#">16H</a> , <a href="#">17H</a> , <a href="#">19H</a> , <a href="#">1AH</a> , <a href="#">1BH</a> , <a href="#">1CH</a> , <a href="#">21H</a> , <a href="#">22H</a> , <a href="#">23H</a> , <a href="#">24H</a> , <a href="#">27H</a> , <a href="#">28H</a> , <a href="#">29H</a> , <a href="#">2EH</a> , <a href="#">2FH</a> , <a href="#">32H</a> , <a href="#">3305H</a> , <a href="#">36H</a> , <a href="#">39H</a> , <a href="#">3AH</a> , <a href="#">3BH</a> , <a href="#">3CH</a> , <a href="#">3DH</a> , <a href="#">3EH</a> , <a href="#">3FH</a> , <a href="#">40H</a> , <a href="#">41H</a> , <a href="#">42H</a> , <a href="#">4300H</a> , <a href="#">4301H</a> , <a href="#">45H</a> , <a href="#">45H</a> , <a href="#">46H</a> , <a href="#">4EH</a> , <a href="#">4FH</a> , <a href="#">54H</a> , <a href="#">56H</a> , <a href="#">5700H</a> , <a href="#">5701H</a> , <a href="#">5AH</a> , <a href="#">5BH</a> , <a href="#">5c00H</a> , <a href="#">5c01H</a> , <a href="#">60H</a> , <a href="#">67H</a> , <a href="#">68H</a> , <a href="#">6900H</a> , <a href="#">6901H</a> , <a href="#">6AH</a> , <a href="#">6CH</a> |
| Character Device I/O | <a href="#">INT 29H</a> , <a href="#">INT 21H</a> : <a href="#">01H</a> , <a href="#">02H</a> , <a href="#">03H</a> , <a href="#">04H</a> , <a href="#">05H</a> , <a href="#">06H</a> , <a href="#">07H</a> , <a href="#">08H</a> , <a href="#">09H</a> , <a href="#">0AH</a> , <a href="#">0BH</a> , <a href="#">0AH</a> , <a href="#">0CH</a> , <a href="#">5D07H</a> , <a href="#">5D08H</a> , <a href="#">5D09H</a> , <a href="#">5D0AH</a>   |
| Signals              | <a href="#">INT 23H</a> , <a href="#">INT 24H</a> , <a href="#">INT 21H</a> : <a href="#">3300H</a> , <a href="#">3301H</a> , <a href="#">3302H</a>   |
| Memory manager       | <a href="#">INT 21H</a> : <a href="#">48H</a> , <a href="#">49H</a> , <a href="#">4AH</a> , <a href="#">5800H</a> , <a href="#">5801H</a> , <a href="#">5802H</a> , <a href="#">5803H</a>   |

|                |  |
|----------------|--|
| <b>DOS API</b> |  |
| 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  |
| Mouse                       | @MouInit @MouShowPointer @MouStatus @MouSetPos @MouSetMickey @MouRegion  |
| Memory manager              | @ModBlok SET_BLOCK   |

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|                   |  |  |
|-------------------|--|--|
| <b>Family API</b> |  |  |
| 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 DosDevIOctI DosDevIOctI2  |
|                   | Signals  | DosHoldSignal DosSetSigHandler   |
|                   | Misc   | BadDynLink DosGetEnv DosGetMachineMode DosGetVersion DosError DosErrClass DosSetVec  |
| KBD               | KbdCharIn KbdFlushBuffer KbdGetStatus KbdSetStatus KbdStringIn KbdPeek |  |

| <b>Family API</b> |   |
|-------------------|---|
| VIO               | VioGetBuf VioGetConfig VioGetCurPos VioGetCurType VioGetPhysBuf<br>VioReadCellStr VioReadCharStr VioScrollUp VioScrollDn VioScrollLf VioScrollRt<br>VioScrUnLock VioSetCurPos VioSetCurType VioSetMode VioGetMode VioShowBuf<br>VioWrtCellStr VioWrtCharStr VioWrtCharStrAtt VioWrtNAttr VioWrtNCell<br>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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