



**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

2022/03/13 05:41 · prokushev · [0 Comments](#)

## Int 10H

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

### BIOS Interrupts

| Function | Macro                                                                              | Description                  | Version |
|----------|------------------------------------------------------------------------------------|------------------------------|---------|
| 00H      | <a href="#">@SetMode<sup>1)</sup></a>                                              | Set Video Mode               | 5150+   |
| 01H      | <a href="#">@SetCurSz<sup>2)</sup></a>                                             | Set Cursor Shape Size        | 5150+   |
| 02H      | <a href="#">@SetCurPos<sup>3)</sup></a>                                            | Set Cursor Position          | 5150+   |
| 03H      | <a href="#">@GetCur<sup>4)</sup></a>                                               | Get Current Cursor Position  | 5150+   |
| 04H      |                                                                                    | READ LIGHT PEN POSITION      | 5150+   |
| 05H      | <a href="#">@SetPage<sup>5)</sup></a>                                              | Set Active Video Page        | 5150+   |
| 06H      | <a href="#">@ScrollUp<sup>6)</sup></a>                                             | Scroll Screen Area Up        | 5150+   |
| 07H      | <a href="#">@ScrollDn<sup>7)</sup></a>                                             | Scroll Screen Area Down      | 5150+   |
| 08H      | <a href="#">@GetChAtr<sup>8)</sup></a>                                             | Get Character Attribute      | 5150+   |
| 09H      | <a href="#">@PutChAtr<sup>9)</sup></a>                                             | Print Char With Attribute    | 5150+   |
| 0AH      | <a href="#">@PutCh<sup>10)</sup></a>                                               | Print Char                   | 5150+   |
| 0BH      | <a href="#">@SetColor<sup>11)</sup></a> / <a href="#">@SetPalet<sup>12)</sup></a>  | Set Palette/Color            | 5150+   |
| 0CH      | <a href="#">@SetDot<sup>13)</sup></a>                                              | Draw Pixel                   | 5150+   |
| 0DH      | <a href="#">@GetDot<sup>14)</sup></a>                                              | Get Pixel                    | 5150+   |
| 0EH      | <a href="#">@WrtTTY<sup>15)</sup></a>                                              | Write char in TTY mode       | 5150+   |
| 0FH      | <a href="#">@VideoState<sup>16)</sup></a> / <a href="#">@GetMode<sup>17)</sup></a> | Get Current Video Mode/State | 5150+   |

#### IBM PC BIOS API

|               |                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------|
| Video I/O     | <a href="#">INT 10H</a> : 00H, 01H, 02H, 03H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0CH, 0DH, 0EH, 0FH |
| Hardware info | <a href="#">INT 11H</a> , <a href="#">INT 12H</a>                                                   |
| Serial I/O    | <a href="#">INT 14H</a> : 00H, 01H, 02H, 03H                                                        |
| Tape I/O      | <a href="#">INT 15H</a> : 00H, 01H, 02H, 03H                                                        |
| Keyboard I/O  | <a href="#">INT 16H</a> : 00H, 01H, 02H                                                             |
| Printer I/O   | <a href="#">INT 17H</a> : 00H, 01H, 02H                                                             |
| Disk I/O      | <a href="#">INT 13H</a> : 00H, 01H, 02H, 03H, 04H, 05H                                              |
| Date and Time | <a href="#">INT 1AH</a> : 00H, 01H                                                                  |

**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                                                                                                                                                                                                 |

2022/10/04 14:28 · prokushev · 0 Comments

2022/03/13 05:54 · prokushev · 0 Comments

**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 |
|           | 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 KBDSCALLS.DLL MSG.DLL                                                                                                                                                                                                                                                                                                                  |
| Libraries |                 | API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB                                                                                                                                                                                                                                                                                                            |

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1) 2) 3) 4) 5) 8) 9) 10) 11) 12) 17)

Defined in MASM 5.x

6) 7) 13) 14) 15) 16)

osFree extension

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