**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, AH=0FH

## Version

IBM 5150 and higher

## Brief

Get video mode/status

## osFree Macro Library

@GetMode/@VideoState

## Family API

VioGetMode

## Parameters

- AH = 0Fh

## Return

- AH = number of character columns
- AL = display mode (see #00010 at AH=00h)
- BH = active page (see AH=05h)

# Macro

```
INCLUDE BIOS.INC

@GetMode
@VideoState
```

# Notes

- if mode was set with bit 7 set (“no blanking”), the returned mode will also have bit 7 set
- EGA, VGA, and UltraVision return either AL=03h (color) or AL=07h (monochrome) in all extended-row text modes
- HP 200LX returns AL=07h (monochrome) if mode was set to AL=21h and always 80 resp. 40 columns in all text modes regardless of current zoom setting (see AH=D0h)
- when using a Hercules Graphics Card, additional checks are necessary:
  - mode 05h: if WORD 0040h:0063h is 03B4h, may be in graphics page 1 (as set by DOSSHELL and other Microsoft software)
  - mode 06h: if WORD 0040h:0063h is 03B4h, may be in graphics page 0 (as set by DOSSHELL and other Microsoft software)
  - mode 07h: if BYTE 0040h:0065h bit 1 is set, Hercules card is in graphics mode, with bit 7 indicating the page (mode set by Hercules driver for Borland Turbo C)
- the Tandy 2000 BIOS is only documented as returning AL, not AH or BH
- Text based on Ralf Brown Interrupt List Release 61

| **IBM PC BIOS API** | |
|---|---|
| Video I/O | **INT 10H**: 00H, 01H, 02H, 03H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0CH, 0DH, 0EH, 0FH |
| Hardware info | INT 11H, INT 12H |
| Serial I/O | **INT 14H**: 00H, 01H, 02H, 03H |
| Tape I/O | **INT 15H**: 00H, 01H, 02H, 03H |
| Keyboard I/O | **INT 16H**: 00H, 01H, 02H |
| Printer I/O | **INT 17H**: 00H, 01H, 02H |
| Disk I/O | **INT 13H**: 00H, 01H, 02H, 03H, 04H, 05H |
| Date and Time | **INT 1AH**: 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 |

| **osFree Macro Library** | |
|---|---|
| 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 KBDCALLS.DLL MSG.DLL |
| Libraries | | API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB |

2018/08/25 15:05 · prokushev · 0 Comments

From:
https://osfree.org/doku/ - **osFree wiki**

Permanent link:
**https://osfree.org/doku/doku.php?id=en:docs:bios:api:int10:0f**

Last update: **2022/12/03 02:52**