



**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 14H, AH=00H

## Version

IBM 5150 and higher

## Brief

Initialize serial port

## Family API

[VioSetMode](#)

## Input

- AH = 00h
- AL = port parameters (see #00300)
- DX = port number (00h-03h) (04h-43h for Digiboard XAPCM232.SYS)

## Return

AH = line status (see #00304)

FFh if error on Digiboard XAPCM232.SYS  
AL = modem status (see #00305)

# Macro

```
INCLUDE BIOS.INC
```

```
@AuxInit 0, A3H
```

## Notes

- default handler is at F000h:E739h in IBM PC and 100% compatible BIOSes since the PCjr supports a maximum of 4800 bps, attempting to set 9600 bps will result in 4800 bps
- various network and serial-port drivers support the standard BIOS functions with interrupt-driven I/O instead of the BIOS's polled I/O
- the 1993/04/08 Compaq system ROM uses only the low two bits of DX
- the default setting used by DOS (MS-DOS 6, DR-DOS 7.03, PTS-DOS) when (re-)initializing the serial devices is AL=A3h (2400 bps, no parity, 1 stop bit, 8 data bits).

## Note

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

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

### osFree Macro Library

Memory manager [@ModBlok SET\\_BLOCK](#)

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### 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 DosDevIOct1 DosDevIOct2   |
|           | 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   |  |

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