



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

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# Int 21H, AH=09H

## Version

1 and higher

## Brief

WRITE STRING TO STANDARD OUTPUT

## Family API

[DosWrite](#)

## Input

```
AH = 09h
DS:DX -> '$'-terminated string
```

## Return

```
AL = 24h (the '$' terminating the string, despite official docs which state
that nothing is returned) (at least DOS 2.1-7.0 and NWDOS)
```

## Notes

^C/^Break are checked, and INT 23 is called if either pressed standard output is always the screen under DOS 1.x, but may be redirected under DOS 2+

under the FlashTek X-32 DOS extender, the pointer is in DS:EDX

## See also

AH=02h,AH=06h“OUTPUT”

## 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 @CIs                                                                                                                                         |
| 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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| 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 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 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 KBDSCALLS.DLL MSG.DLL                                                                                                                                                                                                                                                                                                                              |
| Libraries  |                 | API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB                                                                                                                                                                                                                                                                                                                        |

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