



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

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## INT 21H

| AH                  | Description                                | Version |
|---------------------|--------------------------------------------|---------|
| <a href="#">00H</a> | Program terminate                          | 1.0+    |
| <a href="#">01H</a> | Character input                            | 1.0+    |
| <a href="#">02H</a> | Character output                           | 1.0+    |
| <a href="#">03H</a> | Auxiliary input                            | 1.0+    |
| <a href="#">04H</a> | Auxiliary output                           | 1.0+    |
| <a href="#">05H</a> | Printer output                             | 1.0+    |
| <a href="#">06H</a> | Direct console I/O                         | 1.0+    |
| <a href="#">07H</a> | Direct console input without echo          | 1.0+    |
| <a href="#">08H</a> | Console input without echo                 | 1.0+    |
| <a href="#">09H</a> | Display string                             | 1.0+    |
| <a href="#">0AH</a> | Buffered keyboard input                    | 1.0+    |
| <a href="#">0BH</a> | Get input status                           | 1.0+    |
| <a href="#">0CH</a> | Flush input buffer and input               | 1.0+    |
| <a href="#">0DH</a> | Disk reset                                 | 1.0+    |
| <a href="#">0EH</a> | Set default drive                          | 1.0+    |
| <a href="#">0FH</a> | Open file (FCB)                            | 1.0+    |
| <a href="#">10H</a> | Close file (FCB)                           | 1.0+    |
| <a href="#">11H</a> | Find first file (FCB)                      | 1.0+    |
| <a href="#">12H</a> | Find next file (FCB)                       | 1.0+    |
| <a href="#">13H</a> | Delete file (FCB)                          | 1.0+    |
| <a href="#">14H</a> | Sequential read (FCB)                      | 1.0+    |
| <a href="#">15H</a> | Sequential write (FCB)                     | 1.0+    |
| <a href="#">16H</a> | Create or truncate file (FCB)              | 1.0+    |
| <a href="#">17H</a> | Rename file (FCB)                          | 1.0+    |
| <a href="#">19H</a> | Get default drive                          | 1.0+    |
| <a href="#">1AH</a> | Set disk transfer address                  | 1.0+    |
| <a href="#">1BH</a> | Get allocation info for default drive      | 1.0+    |
| <a href="#">1CH</a> | Get allocation info for specified drive    | 1.0+    |
| <a href="#">1FH</a> | Get disk parameter block for default drive | 1.0+    |
| <a href="#">21H</a> | Random read (FCB)                          | 1.0+    |
| <a href="#">22H</a> | Random write (FCB)                         | 1.0+    |
| <a href="#">23H</a> | Get file size in records (FCB)             | 1.0+    |
| <a href="#">24H</a> | Set random record number (FCB)             | 1.0+    |
| <a href="#">25H</a> | Set interrupt vector                       | 1.0+    |
| <a href="#">26H</a> | Create PSP                                 | 1.0+    |
| <a href="#">27H</a> | Random block read (FCB)                    | 1.0+    |

| AH                    | Description                                       | Version      |
|-----------------------|---------------------------------------------------|--------------|
| <a href="#">28H</a>   | Random block write (FCB)                          | 1.0+         |
| <a href="#">29H</a>   | Parse filename (FCB)                              | 1.0+         |
| <a href="#">2AH</a>   | Get date                                          | 1.0+         |
| <a href="#">2BH</a>   | Set date                                          | 1.0+         |
| <a href="#">2CH</a>   | Get time                                          | 1.0+         |
| <a href="#">2DH</a>   | Set time                                          | 1.0+         |
| <a href="#">2EH</a>   | Set verify flag                                   | 1.0+         |
| <a href="#">2FH</a>   | Get disk transfer address                         | 2.0+         |
| <a href="#">30H</a>   | Get DOS version                                   | 2.0+         |
| <a href="#">31H</a>   | Terminate and stay resident                       | 2.0+         |
| <a href="#">32H</a>   | Get disk parameter block for specified drive      | 2.0+         |
| <a href="#">33H</a>   | Extended functions                                | 2.0+         |
| <a href="#">3300H</a> | Get current extended break state                  | 2.0+         |
| <a href="#">3301H</a> | Set state of extended Ctrl+C/Ctrl+Break checking  | 2.0+         |
| <a href="#">3302H</a> | Get and set extended Control-Break checking state | 3.0+         |
| <a href="#">3303H</a> | Get current CPSW state                            | 3.4/4.0      |
| <a href="#">3304H</a> | Set CPSW state                                    | 3.4/4.0      |
| <a href="#">3305H</a> | Get boot drive                                    | 4.0+         |
| <a href="#">3306H</a> | Get true version number                           | 5.0+         |
| <a href="#">34H</a>   | Get InDOS flag pointer                            | 2.0+         |
| <a href="#">35H</a>   | Get interrupt vector                              | 2.0+         |
| <a href="#">36H</a>   | Get free disk space                               | 2.0+         |
| <a href="#">37H</a>   | Extended functions                                | 2.0+         |
| <a href="#">3700H</a> | Get switch character                              | 2.0+         |
| <a href="#">3701H</a> | Set switch character                              | 2.0+         |
| <a href="#">3702H</a> | Get availdev flag                                 | 2.x and 3.3+ |
| <a href="#">3703H</a> | Set availdev flag                                 | 2.x and 3.3+ |
| <a href="#">38H</a>   | Get or set country info                           | 2.0+         |
| <a href="#">3800H</a> | Get current country info                          | 2.0+         |
| <a href="#">3801H</a> | Get/set specified country info                    | 3.0+         |
| <a href="#">39H</a>   | Create subdirectory                               | 2.0+         |
| <a href="#">3AH</a>   | Remove subdirectory                               | 2.0+         |
| <a href="#">3BH</a>   | Change current directory                          | 2.0+         |
| <a href="#">3CH</a>   | Create or truncate file                           | 2.0+         |
| <a href="#">3DH</a>   | Open file                                         | 2.0+         |
| <a href="#">3EH</a>   | Close file                                        | 2.0+         |
| <a href="#">3FH</a>   | Read file or device                               | 2.0+         |
| <a href="#">40H</a>   | Write file or device                              | 2.0+         |
| <a href="#">41H</a>   | Delete file                                       | 2.0+         |
| <a href="#">42H</a>   | Move file pointer                                 | 2.0+         |
| <a href="#">43H</a>   | Extended functions                                | 2.0+         |
| <a href="#">4300H</a> | Get file attributes                               | 2.0+         |
| <a href="#">4301H</a> | Set file attributes                               | 2.0+         |
| <a href="#">44H</a>   | Extended functions                                | 2.0+         |
| <a href="#">4400H</a> | GET DEVICE INFORMATION                            | 2.0+         |

| AH    | Description                                | Version |
|-------|--------------------------------------------|---------|
| 4401H | SET DEVICE INFORMATION                     | 2.0+    |
| 4402H | READ FROM CHARACTER DEVICE CONTROL CHANNEL | 2.0+    |
| 4403H | WRITE TO CHARACTER DEVICE CONTROL CHANNEL  | 2.0+    |
| 4404H | READ FROM BLOCK DEVICE CONTROL CHANNEL     | 2.0+    |
| 4405H | WRITE TO BLOCK DEVICE CONTROL CHANNEL      | 2.0+    |
| 4406H | GET INPUT STATUS                           | 2.0+    |
| 4407H | GET OUTPUT STATUS                          | 2.0+    |
| 4408H | CHECK IF BLOCK DEVICE REMOVABLE            | 3.0+    |
| 4409H | CHECK IF BLOCK DEVICE REMOTE               | 3.1+    |
| 440AH | CHECK IF HANDLE IS REMOTE                  | 3.1+    |
| 440BH | SET SHARING RETRY COUNT                    | 3.1+    |
| 440CH | GENERIC CHARACTER DEVICE REQUEST           | 3.2+    |
| 440DH | GENERIC BLOCK DEVICE REQUEST               | 3.2+    |
| 440EH | GET LOGICAL DRIVE MAP                      | 3.2+    |
| 440FH | SET LOGICAL DRIVE MAP                      | 3.2+    |
| 4410H | QUERY GENERIC IOCTL CAPABILITY (HANDLE)    | 5.0+    |
| 4411H | QUERY GENERIC IOCTL CAPABILITY (DRIVE)     | 5.0+    |
| 45H   | Duplicate handle                           | 2.0+    |
| 46H   | Redirect handle                            | 2.0+    |
| 47H   | Get current directory                      | 2.0+    |
| 48H   | Allocate memory                            | 2.0+    |
| 49H   | Release memory                             | 2.0+    |
| 4AH   | Reallocate memory                          | 2.0+    |
| 4BH   | Execute program                            | 2.0+    |
| 4CH   | Terminate with return code                 | 2.0+    |
| 4DH   | Get program return code                    | 2.0+    |
| 4EH   | Find first file                            | 2.0+    |
| 4FH   | Find next file                             | 2.0+    |
| 50H   | Set current PSP                            | 2.0+    |
| 51H   | Get current PSP                            | 2.0+    |
| 52H   | Get DOS internal pointers (SYSVARS)        | 2.0+    |
| 53H   | Create disk parameter block                | 2.0+    |
| 54H   | Get verify flag                            | 2.0+    |
| 55H   | Create program PSP                         | 2.0+    |
| 56H   | Rename file                                | 2.0+    |
| 57H   | Extended functions                         | 2.0+    |
| 58H   | Get or set allocation strategy             | 2.11+   |
| 59H   | Get extended error info                    | 3.0+    |
| 5AH   | Create unique file                         | 3.0+    |
| 5BH   | Create new file                            | 3.0+    |
| 5CH   | Lock or unlock file                        | 3.0+    |
| 5DH   | File sharing functions                     | 3.0+    |
| 5EH   | Network functions                          | 3.0+    |
| 5FH   | Network redirection functions              | 3.0+    |
| 60H   | Qualify filename                           | 3.0+    |

| AH  | Description                                     | Version          |
|-----|-------------------------------------------------|------------------|
| 61H | OS/2 File System Join/Subst                     | OS/2 1.0+        |
| 62H | Get current PSP                                 | 3.0+             |
| 63H | Get DBCS lead byte table pointer                | 3.0+             |
| 64H | Set wait for external event flag / OS/2 VDM API | 3.2+ / OS/2 2.0+ |
| 65H | Get extended country info                       | 3.3+             |
| 66H | Get or set code page                            | 3.3+             |
| 67H | Set handle count                                | 3.3+             |
| 68H | Commit file                                     | 3.3+             |
| 69H | Get or set media id                             | 4.0+             |
| 6AH | Commit file                                     | 4.0+             |
| 6CH | Extended open/create file                       | 4.0+ / OS/2 1.0+ |
| 6DH | Extended MAke directory                         | OS/2 1.0+        |
| 6EH | DosEnumAttrib                                   | OS/2 1.0+        |
| 6FH | DosQMaxEASize                                   | OS/2 1.0+        |

**DOS API**

|                      |                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                          |

**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                                                                                                                                                      |

| osFree Macro Library |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Date and Time        | @SetTime @GetTime                                                          |
| Mouse                | @MouInit @MouShowPointer @MouStatus @MouSetPos @MouSetMickey<br>@MouRegion |
| Memory manager       | @ModBlok SET_BLOCK                                                         |

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