



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

2018/09/07 05:04 · prokushev · [0 Comments](#)

INT 21H

Version

1 and higher

Brief

DOS API Dispatcher

Family API

none

Win16 API

Dos3Call, NoHookDosCall

Input

| AH | Description | Version | Implemented in DOSKRNL |
|---------------------|-----------------------------------|---------|------------------------|
| 00H | Program terminate | 1.0+ | |
| 01H | Character input | 1.0+ | Yes |
| 02H | Character output | 1.0+ | Yes |
| 03H | Auxiliary input | 1.0+ | Yes |
| 04H | Auxiliary output | 1.0+ | Yes |
| 05H | Printer output | 1.0+ | Yes |
| 06H | Direct console I/O | 1.0+ | Yes |
| 07H | Direct console input without echo | 1.0+ | Yes |
| 08H | Console input without echo | 1.0+ | Yes |
| 09H | Display string | 1.0+ | Yes |
| 0AH | Buffered keyboard input | 1.0+ | Yes |

| AH | Description | Version | Implemented in DOSKRNL |
|-------|---|---------|------------------------|
| 0BH | Get input status | 1.0+ | Yes |
| 0CH | Flush input buffer and input | 1.0+ | Yes |
| 0DH | Disk reset | 1.0+ | |
| 0EH | Set default drive | 1.0+ | |
| 0FH | Open file (FCB) | 1.0+ | |
| 10H | Close file (FCB) | 1.0+ | |
| 11H | Find first file (FCB) | 1.0+ | |
| 12H | Find next file (FCB) | 1.0+ | |
| 13H | Delete file (FCB) | 1.0+ | |
| 14H | Sequential read (FCB) | 1.0+ | |
| 15H | Sequential write (FCB) | 1.0+ | |
| 16H | Create or truncate file (FCB) | 1.0+ | |
| 17H | Rename file (FCB) | 1.0+ | |
| 19H | Get default drive | 1.0+ | |
| 1AH | Set disk transfer address | 1.0+ | |
| 1BH | Get allocation info for default drive | 1.0+ | |
| 1CH | Get allocation info for specified drive | 1.0+ | |
| 1FH | Get disk parameter block for default drive | 1.0+ | |
| 21H | Random read (FCB) | 1.0+ | |
| 22H | Random write (FCB) | 1.0+ | |
| 23H | Get file size in records (FCB) | 1.0+ | |
| 24H | Set random record number (FCB) | 1.0+ | |
| 25H | Set interrupt vector | 1.0+ | |
| 26H | Create PSP | 1.0+ | |
| 27H | Random block read (FCB) | 1.0+ | |
| 28H | Random block write (FCB) | 1.0+ | |
| 29H | Parse filename (FCB) | 1.0+ | |
| 2AH | Get date | 1.0+ | |
| 2BH | Set date | 1.0+ | |
| 2CH | Get time | 1.0+ | |
| 2DH | Set time | 1.0+ | |
| 2EH | Set verify flag | 1.0+ | |
| 2FH | Get disk transfer address | 2.0+ | |
| 30H | Get DOS version | 2.0+ | |
| 31H | Terminate and stay resident | 2.0+ | |
| 32H | Get disk parameter block for specified drive | 2.0+ | |
| 33H | Extended functions | 2.0+ | Yes |
| 3300H | Get current extended break state | 2.0+ | Yes |
| 3301H | Set state of extended Ctrl+C/Ctrl+Break checking | 2.0+ | Yes |
| 3302H | Get and set extended Control-Break checking state | 3.0+ | Yes |
| 3303H | Get current CPSW state | 3.4/4.0 | No |
| 3304H | Set CPSW state | 3.4/4.0 | No |
| 3305H | Get boot drive | 4.0+ | Yes |
| 3306H | Get true version number | 5.0+ | Yes |

| AH | Description | Version | Implemented in DOSKRNL |
|-----------|--|----------------|-------------------------------|
| 34H | Get InDOS flag pointer | 2.0+ | |
| 35H | Get interrupt vector | 2.0+ | |
| 36H | Get free disk space | 2.0+ | |
| 37H | Extended functions | 2.0+ | |
| 3700H | Get switch character | 2.0+ | |
| 3701H | Set switch character | 2.0+ | |
| 3702H | Get availdev flag | 2.x and 3.3+ | |
| 3703H | Set availdev flag | 2.x and 3.3+ | |
| 38H | Get or set country info | 2.0+ | |
| 3800H | Get current country info | 2.0+ | |
| 3801H | Get/set specified country info | 3.0+ | |
| 39H | Create subdirectory | 2.0+ | |
| 3AH | Remove subdirectory | 2.0+ | |
| 3BH | Change current directory | 2.0+ | |
| 3CH | Create or truncate file | 2.0+ | |
| 3DH | Open file | 2.0+ | |
| 3EH | Close file | 2.0+ | |
| 3FH | Read file or device | 2.0+ | |
| 40H | Write file or device | 2.0+ | |
| 41H | Delete file | 2.0+ | |
| 42H | Move file pointer | 2.0+ | |
| 43H | Extended functions | 2.0+ | |
| 4300H | Get file attributes | 2.0+ | |
| 4301H | Set file attributes | 2.0+ | |
| 44H | Extended functions | 2.0+ | |
| 4400H | Get device information | 2.0+ | |
| 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+ | |

| AH | Description | Version | Implemented in DOSKRNL |
|-----------------------|---------------------------------------|---------|------------------------|
| 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+ | Yes |
| 51H | Get current PSP | 2.0+ | Yes |
| 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+ | |
| 5700H | Get file's last-written date and time | 2.0+ | |
| 5701H | Set file's last-written date and time | 2.0+ | |
| 58H | Get or set allocation strategy | 2.11+ | |
| 5800H | Get memory allocation strategy | 2.11+ | |
| 5801H | Set memory allocation strategy | 2.11+ | |
| 5802H | Get UMB link state | 5+ | |
| 5803H | Set UMB link state | 5+ | |
| 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+ | |
| 5C00H | Lock region of file | 3.0+ | |
| 5C01H | Unlock region of file | 3.0+ | |
| 5DH | File sharing functions | 3.0+ | |
| 5D07H | Get redirected printer mode | 3.1+ | |
| 5D08H | Set redirected printer mode | 3.1+ | |
| 5D09H | Flush redirecter printer output | 3.1+ | |
| 5D0AH | Set extended error information | 3.1+ | |
| 5EH | Network functions | 3.0+ | |
| 5E00H | Get machine name | 3.1+ | |
| 5E01H | Set machine name | 3.1+ | |
| 5E02H | Set network printer setup string | 3.1+ | |
| 5E03H | Get network printer setup string | 3.1+ | |
| 5E04H | Set printer mode | 3.1+ | |
| 5E05H | Get printer mode | 3.1+ | |
| 5FH | Network redirection functions | 3.0+ | |

| AH | Description | Version | Implemented in DOSKRNL |
|-------|---|------------------|------------------------|
| 5F00H | Get redirection mode | 3.1+ | |
| 5F01H | Set redirection mode | 3.1+ | |
| 5F02H | Get redirection list entry | 3.1+ | |
| 5F03H | Redirect device | 3.1+ | |
| 5F04H | Cancel redirection | 3.1+ | |
| 5F05H | Get extended redirection list entry | 4+ | |
| 5F07H | Enable drive | 5+ | |
| 5F08H | Disable drive | 5+ | |
| 60H | Qualify filename | 3.0+ | |
| 61H | OS/2 File System Join/Subst | OS/2 1.0+ | |
| 62H | Get current PSP | 3.0+ | Yes |
| 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+ | |
| 6500H | Set general internationalization info | 7.1+ | |
| 6501H | Get general internationalization info | 3.3+ | |
| 6502H | Get pointer to uppercase table | 3.3+ | |
| 6503H | Get pointer to lowercase table | 6.2+ | |
| 6504H | Get pointer to filename uppercase table | 3.3+ | |
| 6505H | Get pointer to filename terminator table | 3.3+ | |
| 6506H | Get pointer to collating sequence table | 3.3+ | |
| 6507H | Get pointer to Double-Byte Character Set table | 4+ | |
| 6520H | Capitalize character | 4+ | |
| 6521H | Capitalize string | 4+ | |
| 6522H | Capitalize ASCIZ string | 4+ | |
| 6523H | Determine if character represents Yes/No response | 4+ | |
| 65A0H | Capitalize filename character | 4+ | |
| 65A1H | Capitalize counted filename string | 4+ | |
| 65A2H | Capitalize ASCIZ filename | 4+ | |
| 66H | Get or set code page | 3.3+ | |
| 6601H | Get global code page table | 3.3+ | |
| 6602H | Set global code page table | 3.3+ | |
| 67H | Set handle count | 3.3+ | |
| 68H | Commit file | 3.3+ | |
| 69H | Get or set media id | 4.0+ | |
| 6900H | Get serial number | 4.0+ | |
| 6901H | Set serial number | 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+ | |
| 71H | Long filename functions | 7.0+ (Win95) | |
| 73H | FAT32 functions | 7.0+ (Win95) | |

Return

Depends on funxtion number

Macro

Notes

See Also

Note

| DOS API | |
|-----------------------------|--|
| Process manager | INT 20H, INT 21H : 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, INT 21H : 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, INT 21H : 01H, 02H, 03H, 04H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0AH, 0CH, 5D07H, 5D08H, 5D09H, 5D0AH |
| Signals | INT 23H, INT 24H, INT 21H : 3300H, 3301H, 3302H |
| Memory manager | INT 21H : 48H, 49H, 4AH, 5800H, 5801H, 5802H, 5803H |
| Date and Time | INT 21H : 2AH, 2BH, 2CH, 2DH |
| Misc | INT 21H : 30H, 3306H, 3700H, 3701H, 3702H, 3703H, 59H |
| NLS | INT 21H : 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 | INT 21H : 4400H, 4401H, 4402H, 4403H, 4404H, 4405H, 4406H, 4407H, 4408H, 4409H, 440AH, 440BH, 440CH, 440DH, 440EH, 440FH, 4410H, 4411H, 53H |
| Network | INT 21H : 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 |

| osFree Macro Library | |
|-----------------------------|--|
| 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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