



**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

[Family API functions](#)

## Win16 API

[Dos3Call, NoHookDosCall](#)

## Input

AH	Description	Version	Implemented in DOSKRNL	osFree MacroLib API	FamilyAPI	Win16 API
00H	Program terminate	1.0+		<a href="#">@Exit</a>	<a href="#">DosExit</a>	—
01H	Character input	1.0+	Yes	—	<a href="#">KbdCharIn</a>	—
02H	Character output	1.0+	Yes	<a href="#">@DispCh</a>	<a href="#">VioWrtTTY</a>	—
03H	Auxiliary input	1.0+	Yes	—	<a href="#">DosDevIOctl</a>	—
04H	Auxiliary output	1.0+	Yes	—	<a href="#">DosDevIOctl</a>	—
05H	Printer output	1.0+	Yes	<a href="#">@PrtCh</a>	<a href="#">DosDevIOctl</a>	—
06H	Direct console I/O	1.0+	Yes	—	<a href="#">KbdCharIn</a> , <a href="#">VioWrtTTY</a>	—
07H	Direct console input without echo	1.0+	Yes	—	<a href="#">KbdCharIn</a>	—
08H	Console input without echo	1.0+	Yes	—	<a href="#">KbdCharIn</a>	—
09H	Display string	1.0+	Yes	<a href="#">@DispStr</a>	<a href="#">VioWrtCharStr</a>	—
0AH	Buffered keyboard input	1.0+	Yes	<a href="#">@GetStr</a>	<a href="#">KbdStringIn</a>	—
0BH	Get input status	1.0+	Yes	—	<a href="#">KbdPeek</a>	—

AH	Description	Version	Implemented in DOSKRNL	osFree MacroLib API	FamilyAPI	Win16 API
0CH	Flush input buffer and input	1.0+	Yes	—	<a href="#">KbdFlushBuffer</a>	—
0DH	Disk reset	1.0+		—	<a href="#">DosBufReset</a>	—
0EH	Set default drive	1.0+		<a href="#">@SetDrv</a>	<a href="#">DosSelectDisk</a>	—
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+		<a href="#">@GetDrv</a>	<a href="#">DosQCurDisk</a>	—
1AH	Set disk transfer address	1.0+		<a href="#">@SetDTA</a>	—	—
1BH	Get allocation info for default drive	1.0+		—	<a href="#">DosQFSInfo</a>	—
1CH	Get allocation info for specified drive	1.0+		—	<a href="#">DosQFSInfo</a>	—
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+		<a href="#">@SetInt</a>	—	—
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+		<a href="#">@GetDate</a>	<a href="#">DosGetDateTime</a>	—
2BH	Set date	1.0+		<a href="#">@SetDate</a>	<a href="#">DosSetDateTime</a>	—
2CH	Get time	1.0+		<a href="#">@GetTime</a>	<a href="#">DosGetDateTime</a>	—
2DH	Set time	1.0+		<a href="#">@SetTime</a>	<a href="#">DosSetDateTime</a>	—
2EH	Set verify flag	1.0+		—	<a href="#">DosSetVerify</a>	—
2FH	Get disk transfer address	2.0+		<a href="#">@GetDTA</a>	—	—
30H	Get DOS version	2.0+		<a href="#">@GetVer</a>	<a href="#">DosGetVersion</a>	<a href="#">GetVersion</a>
31H	Terminate and stay resident	2.0+		<a href="#">@TSR</a>	—	—
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	—	—	—

AH	Description	Version	Implemented in DOSKRNL	osFree MacroLib API	FamilyAPI	Win16 API
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	—	—	—
34H	Get InDOS flag pointer	2.0+		—	—	—
35H	Get interrupt vector	2.0+		@GetInt	—	—
36H	Get free disk space	2.0+		@ChkDrv	DosQFSInfo	GetFreeSpace
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+		—	DosGetCtryInfo	—
3800H	Get current country info	2.0+		—	DosGetCtryInfo	—
3801H	Get/set specified country info	3.0+		—	DosGetCtryInfo	—
39H	Create subdirectory	2.0+		@MkDir	DosMkDir	CreateDirectory
3AH	Remove subdirectory	2.0+		@RmDir	DosRmDir	RemoveDirectory
3BH	Change current directory	2.0+		@ChDir	DosChDir	SetCurrentDirectory
3CH	Create or truncate file	2.0+		@MakFil	DosOpen	_lcreat
3DH	Open file	2.0+		@OpenFil	DosOpen	_lopen
3EH	Close file	2.0+		@ClosFil	DosClose	_lclose
3FH	Read file or device	2.0+		@Read	DosRead	_lread
40H	Write file or device	2.0+		@Write	DosWrite	_lwrite
41H	Delete file	2.0+		@Delfil	DosDelete	—
42H	Move file pointer	2.0+		@MovePtrAbs / @MovePtrRel / @GetFilSz	DosChgFilePtr	_lseek
43H	Extended functions	2.0+		—	DosQFileMode / DosSetFileMode	—
4300H	Get file attributes	2.0+		—	DosQFileMode	—
4301H	Set file attributes	2.0+		—	DosSetFileMode	—
44H	Extended functions	2.0+		—	DosDevIOctl	—
4400H	Get device information	2.0+		—	DosDevIOctl	—
4401H	Set device information	2.0+		—	DosDevIOctl	—
4402H	Read from character device control channel	2.0+		—	DosDevIOctl	—
4403H	Write to character device control channel	2.0+		—	DosDevIOctl	—
4404H	Read from block device control channel	2.0+		—	DosDevIOctl	—
4405H	Write to block device control channel	2.0+		—	DosDevIOctl	—
4406H	Get input status	2.0+		—	DosDevIOctl	—

AH	Description	Version	Implemented in DOSKRNL	osFree MacroLib API	FamilyAPI	Win16 API
4407H	Get output status	2.0+		—	DosDevIOCtl	—
4408H	Check if block device removable	3.0+		—	DosDevIOCtl	GetDriveType
4409H	Check if block device remote	3.1+		—	DosDevIOCtl	GetDriveType
440AH	Check if handle is remote	3.1+		—	DosDevIOCtl	—
440BH	Set sharing retry count	3.1+		—	DosDevIOCtl	—
440CH	Generic character device request	3.2+		—	DosDevIOCtl	—
440DH	Generic block device request	3.2+		—	DosDevIOCtl	—
440EH	Get logical drive map	3.2+		—	DosDevIOCtl	—
440FH	Set logical drive map	3.2+		—	DosDevIOCtl	—
4410H	Query generic IOCTL capability (handle)	5.0+		—	DosDevIOCtl	—
4411H	Query generic IOCTL capability (drive)	5.0+		—	DosDevIOCtl	—
45H	Duplicate handle	2.0+		XDUP	DosDupHandle	—
46H	Redirect handle	2.0+		XDUP2	DosDupHandle	—
47H	Get current directory	2.0+		@GetDir	DosQCurDir	GetCurrentDirectory
48H	Allocate memory	2.0+		@GetBlok	DosAllocSeg	GlobalAlloc
49H	Release memory	2.0+		@FreeBlok	DosFreeSeg	GlobalFree
4AH	Reallocate memory	2.0+		@ModBlok	DosReallocSeg	GlobalReAlloc
4BH	Execute program	2.0+		@Exec	DosExecPgm	WinExec
4CH	Terminate with return code	2.0+		@Exit	DosExit	—
4DH	Get program return code	2.0+		@GetRet	—	—
4EH	Find first file	2.0+		@GetFirst	DosFindFirst	—
4FH	Find next file	2.0+		@GetNext	DosFindNext	—
50H	Set current PSP	2.0+	Yes	—	—	—
51H	Get current PSP	2.0+	Yes	GET_PSP	DosGetInfoSeg (косвенно)	—
52H	Get DOS internal pointers (SYSVARS)	2.0+		—	—	—
53H	Create disk parameter block	2.0+		—	—	—
54H	Get verify flag	2.0+		—	DosQVerify	—
55H	Create program PSP	2.0+		—	—	—
56H	Rename file	2.0+		@MoveFil	DosMove	—
57H	Extended functions	2.0+		—	DosQFileInfo / DosSetFileInfo	—
5700H	Get file's last-written date and time	2.0+		—	DosQFileInfo	—
5701H	Set file's last-written date and time	2.0+		—	DosSetFileInfo	—
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+		GET_ERROR	DosErrClass	GetLastError

AH	Description	Version	Implemented in DOSKRNL	osFree MacroLib API	FamilyAPI	Win16 API
5AH	Create unique file	3.0+		CREATE_TEMP	DosOpen	GetTempFileName
5BH	Create new file	3.0+		CREATE_NEW	DosOpen	_lcreat
5CH	Lock or unlock file	3.0+		LOCK_FILE / UNLOCK	DosFileLocks	LockFile UnlockFile
5C00H	Lock region of file	3.0+		LOCK_FILE	DosFileLocks	LockFile
5C01H	Unlock region of file	3.0+		UNLOCK	DosFileLocks	UnlockFile
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+		GET_MACHINE_NAME / PRINTER_SETUP	—	WNetAddConnection WNetCancelConnection
5E00H	Get machine name	3.1+		GET_MACHINE_NAME	—	GetComputerName
5E01H	Set machine name	3.1+		—	—	—
5E02H	Set network printer setup string	3.1+		PRINTER_SETUP	—	—
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+		GET_LIST / REDIR / CANCEL_REDIR	—	WNetGetConnection
5F00H	Get redirection mode	3.1+		—	—	—
5F01H	Set redirection mode	3.1+		—	—	—
5F02H	Get redirection list entry	3.1+		GET_LIST	—	WNetGetConnection
5F03H	Redirect device	3.1+		REDIR	—	WNetAddConnection
5F04H	Cancel redirection	3.1+		CANCEL_REDIR	—	WNetCancelConnection
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	GET_PSP	DosGetInfoSeg (косвенно)	—
63H	Get DBCS lead byte table pointer	3.0+		—	DosGetDBCSEv	—
64H	Set wait for external event flag / OS/2 VDM API	3.2+ / OS/2 2.0+		—	—	—
65H	Get extended country info	3.3+		—	DosGetCtryInfo	—
6500H	Set general internationalization info	7.1+		—	DosGetCtryInfo	—
6501H	Get general internationalization info	3.3+		—	DosGetCtryInfo	—
6502H	Get pointer to uppercase table	3.3+		—	DosGetCtryInfo	—
6503H	Get pointer to lowercase table	6.2+		—	DosGetCtryInfo	—
6504H	Get pointer to filename uppercase table	3.3+		—	DosGetCtryInfo	—

AH	Description	Version	Implemented in DOSKRNL	osFree MacroLib API	FamilyAPI	Win16 API
6505H	Get pointer to filename terminator table	3.3+		—	DosGetCtryInfo	—
6506H	Get pointer to collating sequence table	3.3+		—	DosGetCollate	—
6507H	Get pointer to Double-Byte Character Set table	4+		—	DosGetDBCSEv	—
6520H	Capitalize character	4+		—	DosCaseMap	AnsiUpper
6521H	Capitalize string	4+		—	DosCaseMap	AnsiUpperBuff
6522H	Capitalize ASCIZ string	4+		—	DosCaseMap	AnsiUpper
6523H	Determine if character represents Yes/No response	4+		—	—	—
65A0H	Capitalize filename character	4+		—	DosCaseMap	AnsiUpper
65A1H	Capitalize counted filename string	4+		—	DosCaseMap	AnsiUpperBuff
65A2H	Capitalize ASCIZ filename	4+		—	DosCaseMap	AnsiUpper
66H	Get or set code page	3.3+		—	DosGetCP / DosSetCP	—
6601H	Get global code page table	3.3+		—	DosGetCP	—
6602H	Set global code page table	3.3+		—	DosSetCP	—
67H	Set handle count	3.3+		—	DosSetMaxFH	SetHandleCount
68H	Commit file	3.3+		FLUSH	DosBufReset	—
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+		—	DosBufReset	—
6CH	Extended open/create file	4.0+ / OS/2 1.0+		—	DosOpen	—
6DH	Extended Make directory	OS/2 1.0+		—	DosMkDir2	—
6EH	DosEnumAttrib	OS/2 1.0+		—	DosFindFirst / DosFindNext	—
6FH	DosQMaxEASize	OS/2 1.0+		—	—	—
71H	Long filename functions	7.0+ (Win95)		—	—	—
73H	FAT32 functions	7.0+ (Win95)		—	—	—

## Return

Depends on function number

## Macro

## Notes

## See Also

## Note

<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
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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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