



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+		@Exit	DosExit	—
01H	Character input	1.0+	Yes	—	KbdCharIn	—
02H	Character output	1.0+	Yes	@DispCh	VioWrtTTY	—
03H	Auxiliary input	1.0+	Yes	—	DosDevIOctl	—
04H	Auxiliary output	1.0+	Yes	—	DosDevIOctl	—
05H	Printer output	1.0+	Yes	@PrtCh	DosDevIOctl	—
06H	Direct console I/O	1.0+	Yes	—	KbdCharIn , VioWrtTTY	—
07H	Direct console input without echo	1.0+	Yes	—	KbdCharIn	—
08H	Console input without echo	1.0+	Yes	—	KbdCharIn	—
09H	Display string	1.0+	Yes	@DispStr	VioWrtCharStr	—
0AH	Buffered keyboard input	1.0+	Yes	@GetStr	KbdStringIn	—
0BH	Get input status	1.0+	Yes	—	KbdPeek	—

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

- [osFree Macro Library](#)
- [Family API functions](#)
- [Win16 KERNEL API](#)

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
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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
Memory manager	@ModBlok SET_BLOCK

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