



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

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# Int 21H, AH=6cH

## Version

4 and higher

## Brief

EXTENDED OPEN/CREATE

## Family API

## Input

```
AX = 6C00h
BL = open mode as in AL for normal open (see also AH=3Dh)
bit 7:
Inheritance

bits 4-6:
Sharing mode
bit 3 reserved

bits 0-2:
Access mode
100 read-only, do not modify file's last-access time (DOS 7.0).
BH = flags
bit 6 = auto commit on every write (see also AH=68h)
bit 5 = return error rather than doing INT 24h
bit 4 = (FAT32) extended size (allow 4GB files instead of 2GB).
CX = create attribute (see #01769).
DL = action if file exists/does not exist (see #01770).
DH = 00h (reserved).
DS:SI -> ASCIZ file name
```

## Return

CF set on error  
 AX = error code (see #01680 at AH=59h/BX=0000h)  
 CF clear if successful  
 AX = file handle  
 CX = status (see #01768)

## Notes

The PC LAN Program only supports existence actions (in DL) of 01h, 10h with sharing=compatibility, and 12h. DR DOS reportedly does not support this function and does not return an "invalid function call" error when this function is used.. The documented bits of BX are stored in the SFT when the file is opened (see #01641,#01642)

BUG: This function has bugs (at least in DOS 5.0 and 6.2) when used with drives handled via the network redirector (INT 2F/AX=112Eh): - CX (attribute) is not passed to the redirector if DL=11h, - CX does not return the status, it is returned unchanged because DOS does a PUSH CX/POP CX when calling the redirector.

## See also

AH=3Ch - AH=3Dh - AX=6C01h - AX=7160h/CL=00h

## Note

Text based on [Ralf Brown Interrupt List Release 61](#)

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

<b>DOS API</b>	
Misc	<a href="#">INT 21H: 30H, 3306H, 3700H, 3701H, 3702H, 3703H, 59H</a>
NLS	<a href="#">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</a>
Devices	<a href="#">INT 21H: 4400H, 4401H, 4402H, 4403H, 4404H, 4405H, 4406H, 4407H, 4408H, 4409H, 440AH, 440BH, 440CH, 440DH, 440EH, 440FH, 4410H, 4411H, 53H</a>
Network	<a href="#">INT 21H: 5E00H, 5E01H, 5E02H, 5E03H, 5E04H, 5E05H, 5F00H, 5F01H, 5F02H, 5F03H, 5F04H, 5F05H, 5F07H, 5F08H</a>

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Video I/O	<a href="#">@SetMode @SetCurSz @SetCurPos @GetCur @SetPage @ScrollUp @ScrollDn @Scroll @GetChAtr @PutChAtr @PutCh @SetPalet @SetColor @SetDot @GetDot @WrtTTY @VideoState @GetMode @GetDisplay @GetVideoState @GetEGAInfo @Cls</a>
Hardware info	<a href="#">@Equipment @MemSize</a>
Serial I/O	<a href="#">@AuxInit @AuxSendChar @AuxRecieveChar @AuxStatus</a>
Tape I/O	<a href="#">@TapeOn @TapeOff @TapeRead @TapeWrite</a>
Keyboard I/O	<a href="#">@KbdStatus @CharIn @CharPeek</a>
Printer I/O	<a href="#">@PrnPrint @PrnInit @PrnStatus</a>
Disk I/O	<a href="#">@DskReset @DskStatus @DskRead @DskWrite @DskVerify @DskFormat</a>
Date and Time	<a href="#">@SetTime @GetTime</a>
Mouse	<a href="#">@MouInit @MouShowPointer @MouStatus @MouSetPos @MouSetMickey @MouRegion</a>
Memory manager	<a href="#">@ModBlok SET_BLOCK</a>

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**Family API**

DOS	Process Manager	<a href="#">DosBeep DosExit DosSleep DosExecPgm</a>
	File Manager	<a href="#">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</a>
	Memory Manager	<a href="#">DosFreeSeg DosSubAlloc DosSubFree DosSubSet DosAllocHuge DosAllocSeg DosReallocHuge DosReallocSeg DosGetHugeShift DosCreateCSAlias</a>
	NLS	<a href="#">DosCaseMap DosGetCtryInfo DosGetDBCSEv DosSetCtryCode DosGetCollate DosGetMessage DosInsMessage DosPutMessage</a>
	Date and Time	<a href="#">DosSetDateTime DosGetDateTime</a>
	Devices	<a href="#">DosDevConfig DosDevIOct1 DosDevIOct2</a>
	Signals	<a href="#">DosHoldSignal DosSetSigHandler</a>
	Misc	<a href="#">BadDynLink DosGetEnv DosGetMachineMode DosGetVersion DosError DosErrClass DosSetVec</a>
KBD	<a href="#">KbdCharIn KbdFlushBuffer KbdGetStatus KbdSetStatus KbdStringIn KbdPeek</a>	
VIO	<a href="#">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</a>	

<b>Family API</b>	
Tools	BIND
Modules	<a href="#">DOSCALLS.DLL</a> <a href="#">VIOCALLS.DLL</a> <a href="#">KBDCALLS.DLL</a> <a href="#">MSG.DLL</a>
Libraries	<a href="#">API.LIB</a> <a href="#">OS2386.LIB</a> <a href="#">FAPI.LIB</a> <a href="#">DOSCALLS.LIB</a> <a href="#">SUBCALLS.LIB</a>

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