



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, 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/AH=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, 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 |

| DOS API | |
|-----------------------------|---|
| 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 @GetEGAIInfo @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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| Family API | |
|-------------------|---|
| DOS | Process Manager DosBeep DosExit DosSleep DosExecPgm |
| | File Manager DosChDir DosChgFilePtr DosClose DosDelete DosDupHandle DosMkDir DosMove DosQCurDir DosQCurDisk DosSet FileMode DosOpen DosQFileInfo DosRead DosQ FileMode DosQFSInfo DosQVerify DosRmDir DosSelectDisk DosFindClose DosFindFirst DosFindNext DosSet FileInfo DosSet Verify DosWrite DosFileLocks DosSet FHand State DosNew Size DosBufReset DosQFHand State DosSet FSinfo |
| | Memory Manager DosFreeSeg DosSubAlloc DosSubFree DosSubSet DosAlloc Huge DosAlloc Seg DosRealloc Huge DosRealloc Seg DosGet Huge Shift DosCreate CS Alias |
| | NLS DosCaseMap DosGet Ctry Info DosGet DBCSEv DosSet Ctry Code DosGet Collate DosGet Message DosIns Message DosPut Message |
| | Date and Time DosSet Date Time DosGet Date Time |
| | Devices DosDevConfig DosDevIOCtl DosDevIOCtl2 |
| | Signals DosHold Signal DosSet Sig Handler |
| | Misc Bad Dyn Link DosGet Env DosGet Machine Mode DosGet Version DosError DosErr Class DosSet Vec |
| KBD | KbdCharIn KbdFlushBuffer KbdGet Status KbdSet Status KbdStringIn KbdPeek |
| VIO | VioGet Buf VioGet Config VioGet Cur Pos VioGet Cur Type VioGet Phys Buf VioRead Cell Str VioRead Char Str Vio Scroll Up Vio Scroll Dn Vio Scroll If Vio Scroll Rt Vio Scr Un Lock Vio Set Cur Pos Vio Set Cur Type Vio Set Mode Vio Get Mode Vio Show Buf Vio Wrt Cell Str Vio Wrt Char Str Vio Wrt Char Str Att Vio Wrt N Attr Vio Wrt N Cell Vio Wrt N Char Vio Wrt TTY Vio Scr Lock Vio Pop Up |
| Tools | BIND |

Family API

| | |
|-----------|---|
| Modules | DOSCALLS.DLL VIOCALLS.DLL KBDCALLS.DLL MSG.DLL |
| Libraries | API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB |

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