


**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=60H

## Version

3 and higher

## Brief

TRUENAME - CANONICALIZE FILENAME OR PATH

## Family API

## Input

```
AH = 60h
DS:SI -> ASCIZ filename or path
ES:DI -> 128-byte buffer for canonicalized name
```

## Return

```
CF set on error
AX = error code
02h invalid component in directory path or drive letter only
03h malformed path or invalid drive letter
ES:DI buffer unchanged
CF clear if successful
AH = 00h or 3Ah (DOS 6.1/6.2 for character device)
AL = destroyed (00h or 2Fh or 5Ch or last character of current directory on
drive) buffer filled with qualified name of form D:\PATH\FILE.EXT or
\\MACHINE\PATH\FILE.EXT
```

# Notes

The input path need not actually exist. Letters are uppercased, forward slashes converted to backslashes, asterisks converted to appropriate number of question marks, and file and directory names are truncated to 8.3 if necessary. (DR DOS 3.41 and 5.0 do not expand asterisks). '.' and '..' in the path are resolved. Filespecs on local drives always start with “d:”, those on network drives always start with “\\”. If path string is on a JOINed drive, the returned name is the one that would be needed if the drive were not JOINed; similarly for a SUBSTed, ASSIGNed, or network drive letter. Because of this, it is possible to get a qualified name that is not legal under the current combination of SUBSTs, ASSIGNs, JOINs, and network redirections. Under DOS 3.3 through 6.00, a device name is translated differently if the device name does not have an explicit directory or the directory is \DEV (relative directory DEV from the root directory works correctly). In these cases, the returned string consists of the unchanged device name and extension appended to the string X:/ (forward slash instead of backward slash as in all other cases) where X is the default or explicit drive letter.. Under MS-DOS 7.0, this call returns the short name for any long-filename portions of the provided pathname or filename. Functions which take pathnames require canonical paths if invoked via INT 21/AX=5D00h. Supported by OS/2 v1.1 compatibility box. NetWare 2.1x does not support characters with the high bit set; early versions of NetWare 386 support such characters except in this call. In addition, NetWare returns error code 3 for the path “X:\”; one should use “X:\.” instead.. Novell DOS 7 reportedly has difficulty with non-MS-DOS filenames on network drives, and can return “D:” instead of “SERVER/VOLUME”. For DOS 3.3-6.0, the input and output buffers may be the same, as the canonicalized name is built in an internal buffer and copied to the specified output buffer as the very last step. For DR DOS 6.0, this function is not automatically called when on a network. Device drivers reportedly cannot make this call from their INIT function. Using the same pointer for both input and output buffers is not supported in the April 1992 and earlier versions of DR DOS. Windows for Workgroups 3.11, Windows95 and even MS-DOS 7.00 only return the local drive path; to obtain network paths use INT 21/AX=5F02h or INT 21/AX=5F46h instead. Corel's CORELCDX and MSCDEX without the /S switch return canonical names of the form “\\D.\A.\path”, where “D” is the CD-ROM drive letter and “A” appears to indicate the first physical CD-ROM drive; MSCDEX with the /S switch returns a canonical name with embedded blanks. Novell DOS 7 NWCDEX as of the 11/16/94 update returns the same canonical path as MSCDEX; earlier revisions returned “Cdex. D:\path”, where “D” is the CD-ROM drive letter. The Windows95 MSCDEX-replacement VxD returns “D:\path”, even though the MS-DOS 7.00 MSCDEX behaves identically to older versions (above)

BUG: Windows95 incorrectly treats filenames where the first two characters after the drive letter and colon are both slashes (either forward or backward) as a UNC (network name) and requires several seconds to attempt to resolve the name before returning an unchanged string

# See also

AX=5F02h - AX=7160h/CL=00h - INT 2F/

# 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 |
| 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 |
| 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 DosSetFileMode DosOpen DosQFileInfo DosRead DosQFileMode DosQFSInfo DosQVerify DosRmDir DosSelectDisk DosFindClose DosFindFirst DosFindNext DosSetFileInfo DosSetVerify DosWrite DosFileLocks DosSetFHandState DosNewSize DosBufReset DosQFHandState DosSetFSinfo DosShutdown |
| | Memory Manager | DosFreeSeg DosSubAlloc DosSubFree DosSubSet DosAllocHuge DosAllocSeg DosReallocHuge DosReallocSeg DosGetHugeShift DosCreateCSAlias |
| | NLS | DosCaseMap DosGetCtryInfo DosGetDBCSEv DosSetCtryCode DosGetCollate DosGetMessage DosInsMessage DosPutMessage |
| | Date and Time | DosSetDateTime DosGetDateTime |
| | Devices | DosDevConfig DosDevIOCtl DosDevIOCtl2 |
| | Signals | DosHoldSignal DosSetSigHandler |
| | Misc | BadDynLink DosGetEnv DosGetMachineMode DosGetVersion DosError DosErrClass DosSetVec |
| KBD | | KbdCharIn KbdFlushBuffer KbdGetStatus KbdSetStatus KbdStringIn KbdPeek |
| VIO | | 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 |
| Tools | | BIND |
| Modules | | DOSCALLS.DLL VIOCALLS.DLL KBDCALLS.DLL MSG.DLL |
| Libraries | | API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB |

2018/08/25 15:05 · prokushev · 0 Comments

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Last update: **2024/05/06 06:00**