



This is part of **Family API** which allow to create dual-os version of program runs under OS/2 and DOS

Note: This is legacy API call. It is recommended to use 32-bit equivalent

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DosSysTrace

Brief

Writes a trace record to the system trace buffer. It provides a high speed event recording mechanism which may be used by PM and non-PM threads in ring 3 and ring 2 and by detached processes.

Syntax

```
APIRET APIENTRY16 DosSysTrace  
    (USHORT major, USHORT cBuffer, USHORT minor, PCHAR pBuffer)
```

Parameters

- major (USHORT) input : Major code which identifies the trace record. Range reserved for user is 245-255. Valid range 0-255
- cBuffer (USHORT) input : Length of optional buffer. Valid range
 - 0 - 512 (before 4.0 FP 10 and 3.0 FP 35)
 - 0 - 4099 (from 3.0 FP35 and 4.0 FP10 onwards).
- minor (USHORT) input : Minor code which identifies the trace record. Major-minor code pair should uniquely identify the trace record. Valid range 1 - 255
- pBuffer (PCHAR) input : Pointer to optional buffer. If cBuffer is 0, then pBuffer is ignored.

Return Code

ulrc (APIRET) returns

DosSysTrace returns one of the following values

- 0 NO_ERROR
- 150 ERROR_SYSTEM_TRACE

Remarks

DosSysTrace creates a trace record that includes the following items:

- Header Major code, minor code, time stamp, PID of logging process
- Optional System Data Controlled by the TRACE command
- Optional User Data Specified by the pBuffer parameter

To check is tracing enabled use [DosGetInfoSeg](#). GlobalInfoSeg contains 256bit flags area. See [DosGetInfoSeg](#) for more info.

Example Code

```
int main(int argc, char *argv[], char *envp[]){
    APIRET rc=0;          /* default return code */
    USHORT major=255;     /* default major code */
    USHORT minor=1;       /* default minor code */
    USHORT cBuffer=0;      /* default buffer length */
    PCHAR  pBuffer=NULL;   /* default buffer address */

    if (argc>1)
    {
        pBuffer = argv[1];
        cBuffer = strlen(argv[1]);
    }

    if (argc>2) major = atol(argv[2]);
    if (argc>3) minor = atol(argv[3]);

    rc = Dos16SysTrace(major, cBuffer, minor, pBuffer);

    if (rc) printf("DosSysTrace returned rc=%u\n", rc);

    return rc;
}
```

Related Functions

- [DosDumpProcess](#)
- [DosForceSystemDump](#)

| 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 |
| | 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 |

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