



# DosWrite

This call transfers the specified number of bytes from a buffer to the specified file, synchronously with respect to the requesting process's execution.

## Syntax

DosWrite (FileHandle, BufferArea, BufferLength, BytesWritten)

## Parameters

;FileHandle (HFILE) - input : File handle from DosOpen. ;BufferArea (PVOID) - input : Address of the output buffer. ;BufferLength (USHORT) - input : Number of bytes to write. ;BytesWritten (PUSHORT) - output : Address of the number of bytes written.

## Return Code

rc (USHORT) - return Return code descriptions are: \* 0 NO\_ERROR \* 5 ERROR\_ACCESS\_DENIED \* 6 ERROR\_INVALID\_HANDLE \* 26 ERROR\_NOT\_DOS\_DISK \* 33 ERROR\_LOCK\_VIOLATION \* 109 ERROR\_BROKEN\_PIPE

## Remarks

On output, BytesWritten is the number of bytes actually written. If BytesWritten is different from BufferLength, this usually indicates insufficient disk space.

A BufferLength value of 0 is not considered an error. No data transfer occurs. There is no effect on the file or the file pointer.

Buffers that are multiples of the hardware's base physical unit for data written to the file on these base boundaries, are written directly to the device. (The base physical unit is defined as the smallest block that can be physically written to the device.) Other buffer sizes force some I/O to go through an internal system buffer and greatly reduce the efficiency of I/O operation.

The file pointer is moved by read and write operations. It can be moved to a desired position by calling DosChgFilePtr.

If the file is read-only, the write to the file is not performed.

## Family API Considerations

Some options operate differently in the DOS mode than in OS/2 mode. Therefore, the following restriction applies to DosWrite when coding for the DOS mode.

\* Only single-byte DosWrite requests can be made to the COM device, because the COM device driver for the DOS environment does not support multiple-byte I/O.

## Named Pipe Considerations

DosWrite is also used to write bytes or messages to a named pipe.

Each write to a message pipe writes a message whose size is the length of the write; DosWrite automatically encodes message lengths in the pipe, so applications need not encode this information in the buffer being written.

Writes in blocking mode always write all requested bytes before returning. In non-blocking mode, if the message size is bigger than the buffer size, the write blocks. If the message size is smaller than the pipe but not enough space is left in the pipe, the write returns immediately with a value of zero, indicating no bytes were written.

In the case of a byte pipe, if the number of bytes to be written exceeds the space available in the pipe, DosWrite writes as many bytes as it can and returns with the number of bytes actually written.

An attempt to write to a pipe whose other end has been closed returns ERROR\_BROKEN\_PIPE.

## Example Code

### C Binding

```
<PRE> #define INCL_DOSFILEMGR
```

```
USHORT rc = DosWrite(FileHandle, BufferArea, BufferLength, BytesWritten);
```

```
HFILE FileHandle; /* File handle */ PVOID BufferArea; /* User buffer */ USHORT BufferLength; /* Buffer length */ PUSHORT BytesWritten; /* Bytes written (returned) */
```

```
USHORT rc; /* return code */ </PRE> This example writes to a file. <PRE> #define INCL_DOSFILEMGR
```

```
#define OPEN_FILE 0x01 #define CREATE_FILE 0x10 #define FILE_ARCHIVE 0x20 #define FILE_EXISTS OPEN_FILE #define FILE_NOEXISTS CREATE_FILE #define DASD_FLAG 0 #define INHERIT 0x80 #define WRITE_THRU 0 #define FAIL_FLAG 0 #define SHARE_FLAG 0x10 #define ACCESS_FLAG 0x02
```

```
#define FILE_NAME "test.dat" #define FILE_SIZE 800L #define FILE_ATTRIBUTE FILE_ARCHIVE #define RESERVED 0L
```

```
HFILE FileHandle; USHORT Wrote; USHORT Action; PSZ FileData[100]; USHORT rc;
```

```

Action = 2;
strcpy(FileData, "Data...");
if(!DosOpen(FILE_NAME,          /* File path name */
            &FileHandle,        /* File handle */
            &Action,            /* Action taken */
            FILE_SIZE,          /* File primary allocation */
            FILE_ATTRIBUTE,      /* File attribute */
            FILE_EXISTS | FILE_NOEXISTS, /* Open function type */
            DASD_FLAG | INHERIT | /* Open mode of the file */
            WRITE_THRU | FAIL_FLAG |
            SHARE_FLAG | ACCESS_FLAG,
            RESERVED))          /* Reserved (must be zero) */
    rc = DosWrite(FileHandle,    /* File handle */
                  (PVOID) FileData, /* User buffer */
                  sizeof(FileData), /* Buffer length */
                  &Wrote);      /* Bytes written */

```

</PRE>

## MASM Binding

<PRE> EXTRN DosWrite:FAR INCL\_DOSFILEMGR EQU 1

PUSH WORD FileHandle ;File handle PUSH@ OTHER BufferArea ;User buffer PUSH WORD BufferLength  
;Buffer length PUSH@ WORD BytesWritten ;Bytes written (returned) CALL DosWrite

Returns WORD </PRE>

## Note

Text based on [http://www.edm2.com/index.php/DosWrite\\_\(FAP\)](http://www.edm2.com/index.php/DosWrite_(FAP))

| Family API |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOS        | Process Manager | <a href="#">DosBeep</a> <a href="#">DosExit</a> <a href="#">DosSleep</a> <a href="#">DosExecPgm</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | File Manager    | <a href="#">DosChDir</a> <a href="#">DosChgFilePtr</a> <a href="#">DosClose</a> <a href="#">DosDelete</a> <a href="#">DosDupHandle</a> <a href="#">DosMkDir</a> <a href="#">DosMove</a> <a href="#">DosQCurDir</a> <a href="#">DosQCurDisk</a> <a href="#">DosSetFileMode</a> <a href="#">DosOpen</a> <a href="#">DosQFileInfo</a> <a href="#">DosRead</a> <a href="#">DosQFileMode</a> <a href="#">DosQFSInfo</a> <a href="#">DosQVerify</a> <a href="#">DosRmDir</a> <a href="#">DosSelectDisk</a> <a href="#">DosFindClose</a> <a href="#">DosFindFirst</a> <a href="#">DosFindNext</a> <a href="#">DosSetFileInfo</a> <a href="#">DosSetVerify</a> <a href="#">DosWrite</a> <a href="#">DosFileLocks</a> <a href="#">DosSetFHandState</a> <a href="#">DosNewSize</a> <a href="#">DosBufReset</a> <a href="#">DosQFHandState</a> <a href="#">DosSetFSinfo</a> <a href="#">DosShutdown</a> |
|            | Memory Manager  | <a href="#">DosFreeSeg</a> <a href="#">DosSubAlloc</a> <a href="#">DosSubFree</a> <a href="#">DosSubSet</a> <a href="#">DosAllocHuge</a> <a href="#">DosAllocSeg</a> <a href="#">DosReallocHuge</a> <a href="#">DosReallocSeg</a> <a href="#">DosGetHugeShift</a> <a href="#">DosCreateCSAlias</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|            | NLS             | <a href="#">DosCaseMap</a> <a href="#">DosGetCtryInfo</a> <a href="#">DosGetDBCSEv</a> <a href="#">DosSetCtryCode</a> <a href="#">DosGetCollate</a> <a href="#">DosGetMessage</a> <a href="#">DosInsMessage</a> <a href="#">DosPutMessage</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | Date and Time   | <a href="#">DosSetDateTime</a> <a href="#">DosGetDateTime</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | Devices         | <a href="#">DosDevConfig</a> <a href="#">DosDevIOCtl</a> <a href="#">DosDevIOCtl2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | Signals         | <a href="#">DosHoldSignal</a> <a href="#">DosSetSigHandler</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            | Misc            | <a href="#">BadDynLink</a> <a href="#">DosGetEnv</a> <a href="#">DosGetMachineMode</a> <a href="#">DosGetVersion</a> <a href="#">DosError</a> <a href="#">DosErrClass</a> <a href="#">DosSetVec</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| KBD        |                 | <a href="#">KbdCharIn</a> <a href="#">KbdFlushBuffer</a> <a href="#">KbdGetStatus</a> <a href="#">KbdSetStatus</a> <a href="#">KbdStringIn</a> <a href="#">KbdPeek</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| VIO        |                 | <a href="#">VioGetBuf</a> <a href="#">VioGetConfig</a> <a href="#">VioGetCurPos</a> <a href="#">VioGetCurType</a> <a href="#">VioGetPhysBuf</a> <a href="#">VioReadCellStr</a> <a href="#">VioReadCharStr</a> <a href="#">VioScrollUp</a> <a href="#">VioScrollDn</a> <a href="#">VioScrollLf</a> <a href="#">VioScrollRt</a> <a href="#">VioScrUnLock</a> <a href="#">VioSetCurPos</a> <a href="#">VioSetCurType</a> <a href="#">VioSetMode</a> <a href="#">VioGetMode</a> <a href="#">VioShowBuf</a> <a href="#">VioWrtCellStr</a> <a href="#">VioWrtCharStr</a> <a href="#">VioWrtCharStrAtt</a> <a href="#">VioWrtNAttr</a> <a href="#">VioWrtNCell</a> <a href="#">VioWrtNChar</a> <a href="#">VioWrtTTY</a> <a href="#">VioScrLock</a> <a href="#">VioPopUp</a>                                                                                                                        |
| Tools      |                 | <a href="#">BIND</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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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