



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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## 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

```
#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 */

```

This example writes to a file.

```

#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,
            &FileHandle,
            &Action,
            FILE_SIZE,
            FILE_ATTRIBUTE,
            FILE_EXISTS | FILE_NOEXISTS,
            DASD_FLAG | INHERIT |
            WRITE_THRU | FAIL_FLAG |
            SHARE_FLAG | ACCESS_FLAG,
            RESERVED))
rc = DosWrite(FileHandle,
              (PVOID) FileData,
              sizeof(FileData),
              &Wrote);

```

## MASM Binding

```

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

## Note

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

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 FHandState DosNewSize DosBufReset DosQFHandState DosSet FInfo
	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	BadDynLink 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 VioScroll Up VioScroll Dn VioScroll If VioScroll Rt VioScr Un Lock VioSet Cur Pos VioSet Cur Type VioSet Mode VioGet Mode VioShow Buf VioWrt Cell Str VioWrt Char Str VioWrt Char Str Att VioWrt N Attr VioWrt N Cell VioWrt N Char VioWrt TTY VioScr Lock VioPop Up
Tools		BIND
Modules		DOSCALLS.DLL VIOCALS.DLL KBDCALLS.DLL MSG.DLL
Libraries		API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB

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