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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DosDevIOCtl2

This call performs control functions on a device specified by an opened device handle.

Syntax

```
DosDevIOCtl2 (Data, DataLength, ParmList, ParmListLength,
              Function, Category, DevHandle)
```

Parameters

- Data (PVOID) - input : Address of the data area.
- DataLength (USHORT) - input : Length of the data buffer.
- ParmList (PVOID) - input : Address of the command-specific argument list.
- ParmListLength (USHORT) - input : Length of the command-specific argument list.
- Function (USHORT) - input : Device-specific function code.
- Category (USHORT) - input : Device category.
- DevHandle (HFILE) - input : Device handle returned by DosOpen or a standard (open) device handle.

Return Code

rc (USHORT) - return:Return code descriptions are:

- 0 NO_ERROR
- 1 ERROR_INVALID_FUNCTION
- 6 ERROR_INVALID_HANDLE
- 15 ERROR_INVALID_DRIVE
- 31 ERROR_GEN_FAILURE
- 87 ERROR_INVALID_PARAMETER
- 115 ERROR_PROTECTION_VIOLATION
- 117 ERROR_INVALID_CATEGORY
- 119 ERROR_BAD_DRIVER_LEVEL
- 163 ERROR_UNCERTAIN_MEDIA

- 165 ERROR_MONITORS_NOT_SUPPORTED

Remarks

Values returned in the range hex FF00 through FFFF are user dependent error codes. Values returned in the range hex FE00 through FEFF are device driver dependent error codes.

Refer to the IBM Operating System/2 Version 1.2 I/O Subsystems And Device Support Volume 1 for a complete listing of control functions (DevHlp calls).

This function provides a generic, expandable IOCTL facility.

A null (zero) value for Data specifies that this parameter is not defined for the generic IOCTL function being specified. A null value for Data causes the value passed in DataLength to be ignored.

A null (zero) value for ParmList specifies that this parameter is not defined for the generic IOCTL function being specified. A null value for ParmList causes the value passed in ParmListLength to be ignored.

The kernel formats a generic IOCTL packet and call the device driver. Since V1.0 and V1.1 device drivers do not understand generic IOCTL packets with DataLength and ParmListLength, the kernel does not pass these fields to the device driver. Device drivers that are marked as being level 2 or higher must support receipt of the generic IOCTL packets with associated length fields.

Do not pass a non-null pointer with a zero length.

Bindings

C

```
#define INCL_DOSDEVICES

USHORT  rc = DosDevIOCtl2(Data, ParmList, Function, Category, DevHandle);

PVOID   Data;          /* Data area */
USHORT  DataLength     /* Data area length */
PVOID   ParmList;      /* Command arguments */
USHORT  ParmListLength /* Command arguments list length */
USHORT  Function;      /* Device function */
USHORT  Category;      /* Device category */
HFILE   DevHandle;     /* Specifies the device */

USHORT  rc;            /* return code */
```

MASM

```
EXTRN  DosDevIOCtl2:FAR
INCL_DOSDEVICES     EQU 1

PUSH@  OTHER   Data           ;Data area
PUSH   WORD    DataLength     ;Data area length
PUSH@  OTHER   ParmList       ;Command arguments
PUSH   WORD    ParmListLength ;Command arguments list length
PUSH   WORD    Function       ;Device function
PUSH   WORD    Category       ;Device category
PUSH   WORD    DevHandle      ;Device handle
CALL   DosDevIOCtl2
```

Returns WORD

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

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