



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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This call helps OS/2 applications respond to error codes (return codes) received from OS/2.

Syntax

```
DosErrClass (Code, Class, Action, Locus)
```

Parameters

- Code ([USHORT](#)) - input : Error code returned by an OS/2 function.
- Class ([PUSHORT](#)) - output : Address of the classification of an error.
- Action ([PUSHORT](#)) - output : Address of the action for an error.
- Locus ([PUSHORT](#)) - output : Address of the origin of an error.

Return Code

rc ([USHORT](#)) - return:Return code descriptions are:

- 0 NO_ERROR

Remarks

The input is a return code returned from another function call, and the output is a classification of the return and recommended action. Depending on the application, the recommended action could be followed, or a more specific application recovery could be performed.

The following values are returned in Class, Action, and Locus:

VALUE	MNEMONIC	DESCRIPTION
1	OUTRES	Out of resources
2	TEMPSIT	Temporary situation
3	AUTH	Authorization failed
4	INTRN	Internal error

VALUE	MNEMONIC	DESCRIPTION
5	HRDFAIL	Device hardware failure
6	SYSFAIL	System failure
7	APPERR	Probable application error
8	NOTFND	Item not located
9	BADFMT	Bad format for call/data
10	LOCKED	Resource/data locked
11	MEDIA	Incorrect media, CRC error
12	ALREADY	Resource/action already taken/done/exists
13	UNK	Unclassified
14	CANT	Can't perform requested action
15	TIME	Timeout

VALUE	MNEMONIC	DESCRIPTION
1	RETRY	Retry immediately
2	DLYRET	Delay and retry
3	USER	Bad user input - get new values
4	ABORT	Terminate in an orderly manner
5	PANIC	Terminate immediately
6	IGNORE	Ignore error
7	INTRET	Retry after user intervention

VALUE	MNEMONIC	DESCRIPTION
1	UNK	Unknown
2	DISK	Random access device such as a disk
3	NET	Network
4	SERDEV	Serial device
5	MEM	Memory

Family API Considerations

Some options operate differently in the DOS mode than in the OS/2 mode. Therefore, the following considerations apply to DosErrClass when coding for the DOS mode:

When DosErrClass is called by a family application, it returns a valid error classification for returns that have occurred. The classifications of a given return code may not be the same for the Family API and the OS/2 mode applications.

Bindings

C

```
#define INCL_DOSMISC

USHORT rc = DosErrClass(Code, Class, Action, Locus);
```

```

USHORT  Code;           /* Error code for analysis */
PUSHORT Class;          /* Error classification (returned) */
PUSHORT Action;          /* Recommended action (returned) */
PUSHORT Locus;           /* Error locus (returned) */

USHORT  rc;              /* return code */

```

MASM

```

EXTRN DosErrClass:FAR
INCL_DOSMISC EQU 1

PUSH WORD    Code      ;Error code for analysis
PUSH@ WORD   Class     ;Error classification (returned)
PUSH@ WORD   Action    ;Recommended action (returned)
PUSH@ WORD   Locus    ;Error locus (returned)
CALL DosErrClass

```

Returns WORD

Example Code

This example attempts to delete a non-existent file. The error returned is then plugged into DosErrClass for more information about the error and what actions should be taken.

```

#define INCL_DOSQUEUES

#define RESERVED 0L
#define FILE_DELETE "adlkjf.dkf"

USHORT Error;
USHORT Class;
USHORT Action;
USHORT Locus;
USHORT rc;

Error = DosDelete(FILE_DELETE, /* File name path */
                  RESERVED); /* Reserved (must be zero) */
rc = DosErrClass(Error, /* Error code for analysis */
                 &Class, /* Error classification */
                 &Action, /* Recommended action */
                 &Locus); /* Error locus */

```

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 DosHoldSignal 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 VioScrUnLock 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 KBDCALS.DLL MSG.DLL
Libraries	API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB

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