 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

2021/09/17 04:47 · prokushev · 0 Comments
2021/08/20 03:18 · prokushev · 0 Comments

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 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

2018/08/25 15:05 · prokushev · 0 Comments