 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

DosCreateCSAlias

Syntax

```
DosCreateCSAlias (DataSelector, CodeSelector)
```

Parameters

- DataSelector (SEL) - input : Data segment selector.
- CodeSelector (PSEL) - output : Address where the selector of the code segment alias descriptor is returned.

Return Code

rc (USHORT) - return

Return code descriptions are:

- 0 NO_ERROR
- 5 ERROR_ACCESS_DENIED

Remarks

A selector returned by a call to DosAllocSeg with no sharing options specified can be used as the data segment specified with DosCreateCSAlias. However, to be CS alias, the segment must be a privilege level 2 or privilege level 3 non-shared segment.

A CS alias segment must be exclusively accessible by the process and cannot be a huge segment. Selectors of shared memory segments and dynamically linked global data segments cannot be used as input for DosCreateCSAlias.

The code segment selector returned by DosCreateCSAlias is valid for CS. If a procedure is stored in the data segment, it can be called using the CS alias. The procedure may be called from privilege level 3 or I/O privilege level.

Use DosFreeSeg to free a CS alias selector created with DosCreateCSAlias. Procedures in the segment can continue to be referenced if the data selector for the aliased segment is passed to DosFreeSeg, because the CS alias selector is not affected. Once both selectors have been passed to DosFreeSeg, the segment is deallocated.

Family API Considerations

The returned selector is the segment address of the allocated memory. When the returned selector or the original selector is freed, OS/2 immediately deallocates the block of memory.

Example Code

C Binding

```
#define INCL_DOSMEMMGR

USHORT  rc = DosCreateCSAlias(DataSelector, CodeSelector);

SEL             DataSelector;  /* Data segment selector */
PSEL            CodeSelector;  /* Code segment selector (returned) */

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

Example

This example requests a block of memory (data segment) then requests a descriptor of the segment marking it as a code segment.

```
#define INCL_DOSMEMMGR

#define NUMBER_OF_BYTES 120
#define ALLOC_FLAG SEG_GETTABLE

SEL    CodeSel;
SEL    Selector;
USHORT rc;

 if(!DosAllocSeg(NUMBER_OF_BYTES,         /* # of bytes requested */
                 &Selector,               /* Selector allocated */
                 ALLOC_FLAG))             /* Allocation flags */
    rc = DosCreateCSAlias(Selector,       /* Data segment selector */
                          &CodeSel);      /* Code segment selector */
```

MASM Binding

```
EXTRN  DosCreateCSAlias:FAR
INCL_DOSMEMMGR      EQU 1

PUSH   WORD    DataSelector  ;Data segment selector
PUSH@  WORD    CodeSelector  ;Code segment selector (returned)
CALL   DosCreateCSAlias
```

Returns WORD

Note

Text based on http://www.edm2.com/index.php/DosCreateCSAlias

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

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

From:
http://osfree.org/doku/ - **osFree wiki**

Permanent link:
http://osfree.org/doku/doku.php?id=en:docs:fapi:doscreatecsalias

Last update: **2021/12/05 06:38**