DosFreeSeg

This call deallocates a memory segment.

Syntax

```
DosFreeSeg (Selector)
```

Parameters

- Selector (SEL) - input : Selector of the segment to be freed.

Return Code

```
rc (USHORT) - return
```

Return code descriptions are:

- 0 NO_ERROR
- 5 ERROR_ACCESS_DENIED
- 212 ERROR_LOCKED

Remarks

DosFreeSeg frees selectors to segments returned by allocation calls to DosAllocSeg, DosAllocShrSeg, and DosAllocHuge. In addition, DosFreeSeg frees a selector returned by a call to DosCreateCSAlias. If a CS alias selector has been created for a data segment by a call to DosCreateCSAlias, the CS alias selector is still valid after the segment's data selector has been freed.

When allocated memory is shared, all selectors to the shared memory must be freed before the memory is deallocated. For example, if memory allocated by DosAllocSeg or DosAllocHuge has been given to another process with DosGiveSeg, the giver usually frees its selector by a call to DosFreeSeg. The recipient, in turn, frees the selector passed to it, after it has accessed the shared memory with DosGetSeg.

DosFreeSeg decrements the reference count for named shared segments allocated by DosAllocShrSeg. Access to the segment with DosGetShrSeg increments this count. When the count is 0, the memory is deallocated.

Family API Considerations

Some options operate differently in the DOS mode than in OS/2 mode. Therefore, the following restriction applies to DosFreeSeg when coding for the DOS mode:

If DosFreeSeg is issued on a CSAliased segment it deallocates the associated memory. This is inconsistent with the OS/2 mode, because DosFreeSeg must be performed on both the original and CSAliased selectors.

Example Code

C Binding

```
#define INCL_DOSMEMMGR

USHORT  rc = DosFreeSeg(Selector);

SEL              Selector;      /* Selector */

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

This example allocates a segment of 30,250 bytes and then discards the segment.

```
#define INCL_DOSMEMMGR

#define NUMBER_OF_BYTES 30250
#define ALLOC_FLAG SEG_GETTABLE

SEL    Selector;
USHORT rc;

   rc = DosAllocSeg(NUMBER_OF_BYTES,     /* # of bytes requested */
                    &Selector,           /* Selector allocated */
                   ALLOC_FLAG);         /* Allocation flags */
 rc = DosFreeSeg(Selector);            /* Segment selector */
```

MASM Binding

```
EXTRN  DosFreeSeg:FAR
INCL_DOSMEMMGR      EQU 1

PUSH   WORD    Selector      ;Selector
CALL   DosFreeSeg
```

Returns WORD

Note

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

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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