

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

```
<PRE> #define INCL_DOSMEMMGR
```

```
USHORT rc = DosFreeSeg(Selector);
```

```
SEL Selector; /* Selector */
```

USHORT rc; /* return code */ </PRE> This example allocates a segment of 30,250 bytes and then discards the segment. <PRE> #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 */
```

```
</PRE>
```

MASM Binding

```
<PRE> EXTRN DosFreeSeg:FAR INCL_DOSMEMMGR EQU 1
```

```
PUSH WORD Selector ;Selector CALL DosFreeSeg
```

```
Returns WORD </PRE>
```

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 DosDevIOct1 DosDevIOct2 |
| | 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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