



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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## DosSubSet

This call is used to initialize a segment or to reset a reallocated segment for suballocation.

### Syntax

```
DosSubSet (SegSelector, Flags, Size)
```

### Parameters

- SegSelector ([SEL](#)) - input : Target data segment selector.
- Flags ([USHORT](#)) - input :

0 = Increasing the size of a segment already initialized.

1 = Initializing a segment.

\* Size ([USHORT](#)) - input : Segment size in bytes.

### Return Code

rc ([USHORT](#)) - return

Return code descriptions are:

- 0 NO\_ERROR
- 310 ERROR\_DOSSUB\_SHRINK
- 313 ERROR\_DOSSUB\_BADSIZE
- 314 ERROR\_DOSSUB\_BADFLAG

### Remarks

To initialize a segment for suballocation, issue `DosSubSet` before issuing `DosSubAlloc` and set `Flags = 1`. The segment must have been allocated with `DosAllocSeg` or `DosAllocShrSeg`.

If a segment allocated by a [DosAllocSeg](#) call has already been set for suballocation, and a call to [DosSubAlloc](#) returns `ERROR_DOSSUB_NOMEM`, the segment's size can be increased by a call to [DosReallocSeg](#). After reallocation, the segment must be reset by a [DosSubSet](#). Failure to reset the segment after changing its size can yield unpredictable results.

The size parameter should be a multiple of four bytes, or it is rounded up to a multiple of four. Note in [DosSubSet](#), a size parameter of 0 indicates the segment is 64KB, while in [DosSubAlloc](#) and [DosSubFree](#), a size parameter of 0 is an error. Other than this special case of 0 meaning 64KB, the minimum size that can be set is 12 bytes.

## Example Code

### C Binding

```
#define INCL_DOSMEMMGR

USHORT rc = DosSubSet(SegSelector, Flags, Size);

SEL      SegSelector; /* Segment selector */
USHORT   Flags;       /* Parameter flags */
USHORT   Size;        /* Size of a block */

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

### MASM Binding

```
EXTRN DosSubSet:FAR
INCL_DOSMEMMGR EQU 1

PUSH WORD SegSelector ;Segment selector
PUSH WORD Flags ;Parameter flags
PUSH WORD Size ;Size of a segment
CALL DosSubSet
```

Returns WORD

### Note

Text based on <http://www.edm2.com/index.php/DosSubSet>

| 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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