

This call scrolls the entire display buffer (or area specified within the display buffer) down.

### Syntax

VioScrollDn (TopRow, LeftCol, BotRow, RightCol, Lines, Cell, VioHandle)

### Parameters

;TopRow (USHORT) - input : Top row to be scrolled. ;LeftCol (USHORT) - input : Left column to be scrolled. ;BotRow (USHORT) - input : Bottom row to be scrolled. ;RightCol (USHORT) - input : Right column to be scrolled. ;Lines (USHORT) - input : Number of lines to be inserted at the top of the screen area being scrolled. If 0 is specified, no lines are scrolled. ;Cell (PBYTE) - input : Address of the character-attribute(s) pair (2 or 4 bytes) used as a fill character on inserted lines. ;VioHandle (HVIO) - input : This must be zero unless the caller is a Presentation Manager application, in which case it must be the value returned by VioGetPs.

### Return Code

rc (USHORT) - return Return code descriptions are: \* 0 NO\_ERROR \* 355 ERROR\_VIO\_MODE \* 358 ERROR\_VIO\_ROW \* 359 ERROR\_VIO\_COL \* 436 ERROR\_VIO\_INVALID\_HANDLE \* 465 ERROR\_VIO\_DETACHED

### Remarks

TopRow = 0 and LeftCol = 0 identifies the top left corner of the screen.

If a value greater than the maximum value is specified for TopRow, LeftCol, BotRow, RightCol, or Lines, the maximum value for that parameter is used.

If TopRow and LeftCol = 0 and if BotRow, RightCol, and Lines = 65535 (or -1 in assembler language), the entire screen is filled with the character-attribute pair defined by Cell.

### OS/2 Toolkit 4.52

This function is defined on bsub.h header of the OS/2 Toolkit on 4.52.

```
#define VioScrollDn          VI016SCROLLDN

APIRET16 APIENTRY16  VioScrollDn (USHORT usTopRow,
                                   USHORT usLeftCol,
                                   USHORT usBotRow,
                                   USHORT usRightCol,
                                   USHORT cbLines,
                                   PBYTE pCell,
                                   HVIO hvio);
```

## Example Code

### C Binding

```
<PRE> #define INCL_VIO  
  
USHORT rc = VioScrollDn(TopRow, LeftCol, BotRow, RightCol, Lines, Cell,  
  
                        VioHandle);
```

```
USHORT TopRow; /* Top row */ USHORT LeftCol; /* Left column */ USHORT BotRow; /* Bottom row */  
USHORT RightCol; /* Right column */ USHORT Lines; /* Number of lines */ PBYTE Cell; /* Cell to be  
written */ HVIO VioHandle; /* Video handle */
```

```
USHORT rc; /* return code */ </PRE>
```

### MASM Binding

```
<PRE> EXTRN VioScrollDn:FAR INCL_VIO EQU 1
```

```
PUSH WORD TopRow ;Top row PUSH WORD LeftCol ;Left column PUSH WORD BotRow ;Bottom row  
PUSH WORD RightCol ;Right column PUSH WORD Lines ;Number of lines PUSH@ OTHER Cell ;Cell to  
be written PUSH WORD VioHandle ;Video handle CALL VioScrollDn
```

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

## Note

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

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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