



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](#)

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VioSetState

This call performs one of the following functions; set palette registers, sets the overscan (border) colour, set the blink/background intensity switch, set color registers, set the underline location, or set the target VioSetMode display configuration.

Syntax

```
VioSetState (RequestBlock, VioHandle)
```

Parameters

- RequestBlock (PVOID) - input : Address of the video state structures consisting of six different structures depending on the request type:
 - 0 - Set palette registers
 - 1 - Set overscan (border) color
 - 2 - Set blink/background intensity switch
 - 3 - Set color registers
 - 4 - Reserved
 - 5 - Set underline location
 - 6 - Set target VioSetMode display configuration
 - 7 - Reserved

The six structures, depending on request type, are:

	Applies to	length (USHORT) - input : Length of structure, including length.	reqtype (USHORT) - input	
VIOPALSTATE	EGA, VGA, or IBM Personal System/2 Display Adapter	38 - Maximum valid value	Request type 0 for palette registers	palette (USHORT) - input: First palette register in the palette register sequence; must be specified in the range 0 through 15. The palette registers are returned in sequential order. The number returned is based upon length.
				color (USHORT*(length-6)/2) - input : Color value for each palette register. The maximum number of entries in the color value array is 16
VIOOVERSCAN	CGA, VGA, or IBM Personal System/2 Display Adapter	Only valid value.	Request type 1 for overscan (border) color.	Color value.
VIOINTENSITY	CGA, EGA, MCGA, VGA, or IBM Personal System/2 Display Adapter	Only valid value.	Request type 2 for blink/background intensity switch.	switch (USHORT) - input : Switch set as:
				0 - Blinking foreground colors enabled. 1 - High intensity background colors enabled.
VIOCOLORREG	VGA, or IBM Personal System/2 Display Adapter	12 - Only valid value.	Request type 3 for color registers.	first color (USHORT) - input : First color register to set in the color register sequence; must be specified in the range 0 through 255. The color registers are set in sequential order.
				number color (USHORT) - input : Number of color registers to set; must be specified in the range 1 through 256.
				dataarea (PCH) - input : Far address of a data area containing one three-byte entry for each color register to be set. The format of each entry is as follows:
				Byte 1 - Red value
				Byte 2 - Green value
				Byte 3 - Blue value

	Applies to	length (USHORT) - input : Length of structure, including length.	reqtype (USHORT) - input	
VIOSETLINELOC	EGA, VGA, or IBM Personal System/2 Display Adapter	Only valid value.	Request type 5 to set the scan line for underlining. Underlining is enabled only when the foreground color is 1 or 9.	scanline (USHORT) - input : Scan line minus 1. Values of 0 through 31 are acceptable. A value of 32 means underlining is disabled.
VIOSETTARGET		Only valid value.	Request type 6 to set display configuration to be the target of the next VioSetMode.	:select (USHORT) - input : Configuration: 0 - Default selection algorithm. See VioSetMode. 1 - Primary 2 - Secondary

- VioHandle (HVIO) - input : Reserved word of 0s.

Return Code

;rc (USHORT) - return:Return code descriptions are: *0 NO_ERROR *355 ERROR_VIO_MODE *421 ERROR_VIO_INVALID_PARMS *436 ERROR_VIO_INVALID_HANDLE *438 ERROR_VIO_INVALID_LENGTH *465 ERROR_VIO_DETACHED *494 ERROR_VIO_EXTENDED_SG

Remarks

Family API Considerations

Request type = 6, Set Target VioSetMode Display Configuration, and request type = 5, Set Underline Location, are not supported in the family API.

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

- VioSetMode clears the screen.

Bindings

C

```
typedef struct _VIOPALSTATE {
```

```

USHORT  cb;                /* Length of this structure in bytes */
USHORT  type;              /* Request type=0 get palette registers */
USHORT  iFirst;           /* First palette register to return */
USHORT  acolor[1];        /* Color value palette register */
}VIOPALSTATE;
typedef VIOPALSTATE far *PVIOPALSTATE;

typedef struct _VIOOVERSCAN {
  USHORT  cb;                /* Length of this structure */
  USHORT  type;              /* Request type=1 get overscan
                             (border) color */
  USHORT  color;            /* Color value */
}VIOOVERSCAN;
typedef VIOOVERSCAN far *PVIOOVERSCAN;

typedef struct _VIOINTENSITY {
  USHORT  cb;                /* Length of this structure */
  USHORT  type;              /* Request type=2 get blink/background
                             intensity switch */
  USHORT  fs;                /* Value of blink/background switch */
}VIOINTENSITY;
typedef VIOINTENSITY far *PVIOINTENSITY;

typedef struct _VIOCOLORREG { /* viocreg */
  USHORT  cb;
  USHORT  type;
  USHORT  firstcolorreg;
  USHORT  numcolorregs;
  PCH     colorregaddr;
}VIOCOLORREG;
typedef VIOCOLORREG far *PVIOCOLORREG;

typedef struct _VIOSETULINELOC { /* viouline */
  USHORT  cb;
  USHORT  type;
  USHORT  scanline;
}VIOSETULINELOC;
typedef VIOSETULINELOC far *PVIOSETULINELOC;

typedef struct _VIOSETTARGET { /* viosett */
  USHORT  cb;
  USHORT  type;
  USHORT  defaultalgorithm;
}VIOSETTARGET;
typedef VIOSETTARGET far *PVIOSETTARGET;

#define INCL_VIO

USHORT  rc = VioSetState(RequestBlock, VioHandle);

PVOID   RequestBlock; /* Request block */

```

```

HVIO          VioHandle;      /* Video handle */
USHORT        rc;             /* return code */

```

MASM

```

VIOPALSTATE struc
    viopal_cb          dw ? ;Length of this structure in bytes
    viopal_type        dw ? ;Request type=0 get palette registers
    viopal_iFirst      dw ? ;First palette register to return
    viopal_acolor      dw 1 dup (?) ;Color value palette register
VIOPALSTATE ends

VIOOVERSCAN struc
    vioos_cb           dw ? ;Length of this structure
    vioos_type         dw ? ;Request type=1 get overscan (border) color
    vioos_color        dw ? ;Color value
VIOOVERSCAN ends

VIOINTENSITY struc
    vioint_cb          dw ? ;Length of this structure
    vioint_type        dw ? ;Request type=2 get blink/background
                        ; intensity switch
    vioint_fs          dw ? ;Value of blink/background switch
VIOINTENSITY ends

VIOCOLORREG struc
    viocreg_cb         dw ? ;
    viocreg_type       dw ? ;
    viocreg_firstcolorreg dw ? ;
    viocreg_numcolorregs dw ? ;
    viocreg_colorregaddr dd ? ;
VIOCOLORREG ends

VIOSETULINELOC struc
    viouline_cb       dw ? ;
    viouline_type     dw ? ;
    viouline_scanline dw ? ;
VIOSETULINELOC ends

VIOSETTARGET struc
    viosett_cb        dw ? ;
    viosett_type      dw ? ;
    viosett_defaultalgorithm dw ? ;
VIOSETTARGET ends

EXTRN VioSetState:FAR
INCL_VIO EQU 1

PUSH@ OTHER RequestBlock ;Request block

```

PUSH **WORD** VioHandle ;Video handle
CALL VioSetState

Returns **WORD**

[http://www.edm2.com/index.php/VioSetState_\(OS/2_1.x\)](http://www.edm2.com/index.php/VioSetState_(OS/2_1.x))

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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