



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:

	<b>Applies to</b>	<b>length (USHORT) - input : Length of structure, including length.</b>	<b>reqtype (USHORT) - input</b>	
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

			4
VIOSETULINELOC	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.
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:select (USHORT) - input : Configuration: ::0 - Default selection algorithm. See VioSetMode. ::1 -  
**Return Code**  
Primary ::2 - Secondary

;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

## 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

<PRE> 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 _VIOSETTULINELOC { /* viouline */
```

```
    USHORT  cb;  
    USHORT  type;  
    USHORT  scanline;  
}VIOSETTULINELOC;
```

```
typedef VIOSETTULINELOC far *PVIOSETTULINELOC;
```

```
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 */ </PRE>
```

## MASM

```
<PRE> 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

## VIOSETLINELOC struc

```

viouline_cb       dw ? ;
viouline_type     dw ? ;
viouline_scanline dw ? ;

```

VIOSETLINELOC 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 &lt;/PRE&gt;

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

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