

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: {
 |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.
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: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.
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.
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: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

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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.

Return Code

rc (USHORT) - return: Return code of request type 6 to NO_DISPLAY_CONFIGURATION_VIO_MODE or 1 of the VIOSETTARGET - Only valid value.	Request type = 6 to NO_DISPLAY_CONFIGURATION_VIO_MODE or 1 of the VIOSETTARGET - Only valid value.
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*436 ERROR_VIO_INVALID_HANDLE *438 ERROR_VIO_INVALID_LENGTH

*465 ERROR_VIO_DETACHED *494 ERROR_VIO_EXTENDED_SG

:select (USHORT) - input : Configuration: ::0 - Default selection algorithm. See VioSetMode. ::1 -

Primary ::2 - Secondary

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 _VIOSETTLINELOC { /* viouline */
```

```
    USHORT    cb;
    USHORT    type;
    USHORT    scanline;
}VIOSETTLINELOC;
```

```
typedef VIOSETTLINELOC far *PVIOSETTLINELOC;
```

```
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

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 </PRE>

[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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