

This call registers an alternate video subsystem within a session.

Syntax

```
VioRegister (ModuleName, EntryPoint, FunctionMask1, FunctionMask2)
```

Parameters

- **ModuleName (PSZ)** - input: Address of the ASCIIZ string containing the 1-8 character file name of the subsystem. The maximum length of the ASCIIZ string is 9 bytes including the terminating byte of zero. The module must be a dynamic link library but the name supplied must not include the .DLL extension.
- **EntryPoint (PSZ)** - input: Address of the ASCIIZ name string containing the dynamic link entry point name of the routine in the subsystem to receive control when any of the registered functions is called. The maximum length of the ASCIIZ string is 33 bytes including the terminating byte of zero.
- **FunctionMask1 (ULONG)** - input: A bit mask where each bit identifies a video function being registered. The bit definitions are shown below. The first word pushed onto the stack contains the high-order 16 bits of the function mask, and the second word contains the low-order 16 bits.

:{| !BIT||REGISTERED FUNCTION

31
30
29
28
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14
13
12
11

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5
4
3
2
1
0

* FunctionMask2 (ULONG) - input : A bit mask where each bit identifies a video function being registered. The bit mask has the format shown below. The first word pushed onto the stack contains the high order 16 bits of the function mask, and the second word contains the low order 16 bits. Unused bits are reserved and must be set to zero. :{| !Bit||Description

31-9
8
7
6
5
4
3
2
1
0

Return Code

;rc (USHORT) - return:Return code descriptions are:

- 0 NO_ERROR
- 349 ERROR_VIO_INVALID_MASK
- 403 ERROR_VIO_INVALID_ASCII_Z
- 426 ERROR_VIO_REGISTER
- 430 ERROR_VIO_ILLEGAL_DURING_POPUP
- 465 ERROR_VIO_DETACHED
- 494 ERROR_VIO_EXTENDED_SG

Remarks

An alternate video subsystem must register which video calls it handles. The default OS/2 video

subsystem is the Base Video Subsystem.

When any of the registered functions are called, control is routed to EntryPoint. When this routine is entered, four additional values (5 words) are pushed onto the stack.

The first value is the index number (Word) of the routine being called. The second value is a near pointer (Word). The third value is the caller's DS register(Word). The fourth value is the return address(DWord) to the VIO router.

For example, if VioSetCurPos were a registered function, the stack would appear as if the following instruction sequence were executed if VioSetCurPos were called and control routed to EntryPoint:

```

PUSH    WORD    Row
PUSH    WORD    Column
PUSH    WORD    VioHandle
CALL    FAR     VioSetCurPos
PUSH    WORD    Index
CALL    NEAR    Entry point in Vio router
PUSH    WORD    Caller's DS
CALL    FAR     Dynamic link entry point

```

The index numbers that correspond to the registered functions are listed below: <PRE>

```

0 VioGetPhysBuf
1 VioGetBuf
2 VioShowBuf
3 VioGetCurPos
4 VioGetCurType
5 VioGetMode
6 VioSetCurPos
7 VioSetCurType
8 VioSetMode
9 VioReadCharStr

```

```

10 VioReadCellStr 11 VioWrtNChar 12 VioWrtNAttr 13 VioWrtNCell 14 VioWrtCharStr 15
VioWrtCharStrAtt 16 VioWrtCellStr 17 VioWrtTTY 18 VioScrollUp 19 VioScrollDn 20 VioScrollLf 21
VioScrollRt 22 VioSetAnsi 23 VioGetAnsi 24 VioPrtSc 25 VioScrLock 26 VioScrUnLock 27
VioSavRedrawWait 28 VioSavRedrawUndo 29 VioPopUp 30 VioEndPopUp 31 VioPrtScToggle 32
VioModeWait 33 VioModeUndo 34 VioGetFont 35 VioGetConfig 36 VioSetCp 37 VioGetCp 38
VioSetFont 39 VioGetState 40 VioSetState </PRE> When a registered function returns to the video
router, the return code is interpreted as follows:

```

- Return code = 0 : No error. Do not invoke the corresponding Base Video Subsystem routine. Return to caller with Return code = 0.
- Return code = -1 : No error. Invoke the corresponding Base Video Subsystem routine. Return to caller with Return code = return code from Base Video Subsystem.
- Return code = error (not 0 or -1) : Do not invoke the corresponding Base Video Subsystem routine. Return to caller with Return code = error.

When an application registers a replacement for [VioPopUp](#) within a session, the registered routine is only invoked when that session is in the foreground. If VioPopUp is issued when that session is in the

background, the OS/2 default routine is invoked.

An alternate video subsystem should be designed so the routines registered do not cause any hard errors when they are invoked. Otherwise, a system lockout occurs. Code and data segments of registered routines, that might be loaded from diskette, must be preloaded.

All VIO functions within a session are serialized on a thread basis. That is, when an alternate video subsystem receives control, it can safely assume that it is not called again from the same session until the current call has completed.

<http://www.edm2.com/index.php/VioRegister>

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