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

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VioScrLock

This call requests ownership of (locks) the physical display buffer.

Syntax

```
VioScrLock (WaitFlag, Status, VioHandle)
```

Parameters

- WaitFlag (USHORT) - input : Indicates whether the process should block until the screen I/O can take place.

Value	Definition
0	Return if screen I/O not available
1	Wait until screen I/O is available

- Status (PUCHAR) - output : Address of the Indicator of whether the lock is successful, described below.

Value	Definition
0	Lock successful
1	Lock unsuccessful (in the case of no wait)

Status is returned only when AX = 0.

Status = 1 may be returned only when WaitFlag = 0.

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

Return Code

rc (USHORT) - return

Return code descriptions are:

- 0 NO_ERROR
- 366 ERROR_VIO_WAIT_FLAG
- 430 ERROR_VIO_ILLEGAL_DURING_POPUP
- 434 ERROR_VIO_LOCK
- 436 ERROR_VIO_INVALID_HANDLE
- 465 ERROR_VIO_DETACHED
- 494 ERROR_VIO_EXTENDED_SG

Remarks

This function call permits a process to determine if I/O to the physical screen buffer can take place. This prevents the process from writing to the physical buffer when the process is in the background. Processes must cooperate with the system in coordinating screen accesses.

Screen switching is disabled while the screen lock is in place. If a screen switch is suspended by a screen lock, and if the application holding the lock does not issue VioScrUnLock within a system-defined time limit, the screen switch occurs, and the process holding the lock is frozen in the background. A process should yield the screen lock as soon as possible to avoid being frozen when running in the background. The timeout on the lock does not begin until a screen switch is requested.

When the screen lock is in effect and another thread in the same or different process (in the same session) issues VioScrLock, the second thread receives an error code. VioScrUnLock must be issued by a thread within the same process that issued VioScrLock.

Family API Considerations

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

The status always indicates the lock is successful (Return code = 0).

Bindings

C Binding

```
#define INCL_VIO

USHORT  rc = VioScrLock(WaitFlag, Status, VioHandle);

USHORT          WaitFlag;       /* Block or not */
PUCHAR          Status;         /* Lock status (returned) */
HVIO            VioHandle;      /* Video handle */

USHORT          rc;             /* return code */
```

MASM Binding

```
EXTRN  VioScrLock:FAR
INCL_VIO            EQU 1

PUSH   WORD    WaitFlag      ;Block or not
PUSH@  BYTE    Status        ;Lock status (returned)
PUSH   WORD    VioHandle     ;Video handle
CALL   VioScrLock

Returns WORD
```

Note

Text based on http://www.edm2.com/index.php/VioScrLock_(FAPI)

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
	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 DosDevIOCtl DosDevIOCtl2
	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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