

This call gets addressability to the physical display buffer.

Syntax

VioGetPhysBuf (DisplayBuf, Reserved)

Parameters

;DisplayBuf(PVIOPHYSBUF) - input/output : Address of the data structure that contains the physical display buffer address and length on input and returns the selectors used to address the display buffer. ;displaybufaddr (PBYTE): Address of the 32 bit start address (selector:offset) of the physical display buffer passed as input. If displaybuflen is 0, then displaybufaddr is the far address of the PhysBuf Block described below. ;displaybuflen (ULONG): 32 bit length of the physical display buffer. If displaybuflen is 0, then displaybufaddr is treated as the far address of the PhysBuf Block described below and the Selector List is not present. ;selectors (SEL): Selector list. :Returns the selectors (each of word-length) that address the physical display buffer. The first selector returned in the list, addresses the first 64KB of the physical display buffer or displaybuflen, whichever is smaller. If displaybuflen is greater than 64KB, the second selector addresses the second 64KB. :The last selector returned in the list, addresses the remainder of the display buffer. The application is responsible for ensuring enough space is reserved for the selector list to accommodate the specified buffer length. ;PhysBuf Block (PhysBuf): Address of the data structure. The PhysBuf Block is a variable length data structure. The first word is the Length of the PhysBuf Block in bytes. The remaining words of the structure are the selectors that address the physical video buffer. If Length is specified as 2, the required length of the PhysBuf Block is returned in its place. ;PhysBuf Block (USHORT) : Length of PhysBuf structure in bytes

```

selector (SEL)
    First selector
selector (SEL)
    Next selector
selector (SEL)
    ...
selector (SEL)
    Last selector

```

;Reserved (USHORT) - input : Reserved word of 0s.

Return Code

rc (USHORT) - return Return code descriptions are: * 0 NO_ERROR * 350 ERROR_VIO_PTR * 429 ERROR_VIO_IN_BG * 430 ERROR_VIO_ILLEGAL_DURING_POPUP * 436 ERROR_VIO_INVALID_HANDLE * 465 ERROR_VIO_DETACHED * 494 ERROR_VIO_EXTENDED_SG

Remarks

If displaybuflen = 0, VioGetPhysBuf returns a selector that addresses the physical display buffer

corresponding to the current mode. One selector is returned in Selector List. If a VioGetPhysBuf is issued after a VioGetBuf, then all VioWrtXX calls will no longer be written to the LVB. They will only be written to the physical display buffer. An application uses VioGetPhysBuf to get addressability to the physical display buffer. The selector returned by VioGetPhysBuf may be used only when an application program is executing in the foreground. When an application wants to access the physical display buffer, the application must call VioScrLock. VioScrLock either waits until the program is running in the foreground or returns a warning when the program is running in the background. For more information refer to VioScrLock and VioScrUnlock.

The buffer range specified for the physical screen buffer must fall between hex 'A0000' and 'BFFFF' inclusive. An application may issue VioGetPhysBuf only when it is running in the foreground. An application may issue VioGetPhysBuf more than once.

Example Code

C Binding

```
<PRE> typedef struct _VIOPHYSBUF { /* viopb */
```

```
PBYTE    pBuf;           /* Buffer start address */
ULONG    cb;             /* Buffer length */
SEL       asel[1];       /* Selector list */
```

```
} VIOPHYSBUF;
```

```
#define INCL_VIO
```

```
USHORT rc = VioGetPhysBuf(Structure, Reserved);
```

```
PVIOPHYSBUF Structure; /* Data structure */ USHORT Reserved; /* Reserved (must be zero) */
```

```
USHORT rc; /* return code */ </PRE>
```

MASM Binding

```
<PRE> VIOPHYSBUF struc
```

```
viopb_pBuf dd    ? ;Buffer start address
viopb_cb   dd    ? ;buffer length
viopb_asel dw    1 dup (?) ;selector list
```

```
VIOPHYSBUF ends
```

```
EXTRN VioGetPhysBuf:FAR INCL_VIO EQU 1
```

```
PUSH@ OTHER Structure ;Data structure PUSH WORD Reserved ;Reserved (must be zero) CALL
VioGetPhysBuf
```

Returns WORD </PRE>

Note

Text based on <http://www.edm2.com/index.php/VioGetPhysBuf>

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 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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