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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VioWrtNAttr

This call writes an attribute to the display a specified number of times.

Syntax

```
VioWrtNAttr (Attr, Times, Row, Column, VioHandle)
```

Parameters

- Attr (PBYTE) - input : Address of the attribute(s) (1 or 3 bytes) to be written.
- Times (USHORT) - input : Number of times to write the attribute.
- Row (USHORT) - input : Starting cursor row.
- Column (USHORT) - input : Starting cursor column.
- VioHandle (HVIO) - input : This must be zero unless the caller is a Presentation Manager application, in which case it must be the value returned by VioGetPs.

Return Code

rc (USHORT) - return

Return code descriptions are:

- 0 NO_ERROR
- 355 ERROR_VIO_MODE
- 358 ERROR_VIO_ROW
- 359 ERROR_VIO_COL
- 436 ERROR_VIO_INVALID_HANDLE
- 465 ERROR_VIO_DETACHED

Remarks

If a repeated write gets to the end of the line and is not complete, the write continues at the

beginning of the next line. If the write gets to the end of the screen, the write terminates.

PM Considerations

Write an attribute code to the Advanced VIO presentation space a specified number of times. The caller must specify the starting location on the presentation space where the string is to be written.

Bindings

C Binding

```
#define INCL_VIO

USHORT  rc = VioWrtNAttr(Attr, Times, Row, Column, VioHandle);

PBYTE            Attr;          /* Attribute to be written */
USHORT           Times;         /* Repeat count */
USHORT           Row;           /* Starting row position for output */
USHORT           Column;        /* Starting column position for output */
HVIO             VioHandle;     /* Video handle */

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

MASM Binding

```
EXTRN  VioWrtNAttr:FAR
INCL_VIO            EQU 1

PUSH@  OTHER   Attr          ;Attribute to be written
PUSH   WORD    Times         ;Repeat count
PUSH   WORD    Row           ;Starting row position for output
PUSH   WORD    Column        ;Starting column position for output
PUSH   WORD    VioHandle     ;Video handle
CALL   VioWrtNAttr

Returns WORD
```

Note

Text based on http://www.edm2.com/index.php/VioWrtNAttr_(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 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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