



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

2021/09/17 04:47 · prokushhev · [0 Comments](#)

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DosGetEnv

This call returns the address of the process environment string for the current process.

Syntax

```
DosGetEnv (EnvSegment, CmdOffset)
```

Parameters

- EnvSegment (PSEL) - output : Address of the selector for the environment segment.
- CmdOffset (PUSHORT) - output : Address of the offset to the command line within the environment segment.

Return Code

- rc (USHORT) - return:Return code descriptions are:
 - 0 NO_ERROR
 - 12 ERROR_INVALID_ACCESS

Remarks

DosGetEnv can be used by dynamic link library routines that need to determine the environment for the current process.

When a process issues [DosExecPgm](#) to start another process, the program that receives control is returned a pointer to the environment segment.

Bindings

C Binding

```
#define INCL_DOSMISC

USHORT rc = DosGetEnv(EnvSegment, CmdOffset);

PUSHORT EnvSegment; /* Selector (returned) */
PUSHORT CmdOffset; /* Command line offset (returned) */

USHORT rc; /* return code */
</code c>

====MASM====

<code asm>
EXTRN DosGetEnv:FAR
INCL_DOSMISC EQU 1

PUSH@ WORD EnvSegment ;Selector (returned)
PUSH@ WORD CmdOffset ;Command line offset (returned)
CALL DosGetEnv
```

Returns WORD

Example Code

The following example shows how one may obtain information for program initialization. The program locates the environment segment and prints the name of the command from the command line. It then obtains the OS/2 version number and prints it.

```
#define INCL_DOS
#include <os2.h>
#define ENVVARNNAME "PATH"

main()
{
    SEL EnvSel; /* Environment segment selector (returned) */
    USHORT CmdOffset; /* Offset into env. seg. of command line
(returned) */
    PSZ FAR *Commandline; /* Pointer made by EnvSel and CmdOffset */
    USHORT Version; /* Version numbers (returned) */
    BYTE MajorVer; /* Major version number */
    BYTE MinorVer; /* Minor version number */
    USHORT rc; /* return code */

    /** Locate environment segment and offset of command line. ***/
    if(!rc=DosGetEnv(&EnvSel, /* Env. seg. selector (returned) */
                    &CmdOffset)) /* Offset of command line (returned) */
        printf("Environment located; selector is %x offset is %x\n",
               EnvSel,
               CmdOffset);

    /** Use a macro to make a far pointer out of selector:offset pair. ***/
}
```

```

/** Notice the far-string pointer specification (%Fs) used to print **/

Commandline = MAKEP(EnvSel, CmdOffset);
printf("Command entered is %Fs.\n", Commandline);

/** Obtain and print version info; use macros to extract info. */
/** We need to divide by 10 to obtain true version numbers. */

if(!rc=DosGetVersion(&Version))
{
    MajorVer = HIBYTE(Version) / 10;
    MinorVer = LOBYTE(Version) / 10;
    printf("This is OS/2 version %d.%d\n", MajorVer, MinorVer);
}
}

```

Note

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

Family API		
DOS	Process Manager	DosBeep DosExit DosSleep DosExecPgm
	File Manager	DosChDir DosChgFilePtr DosClose DosDelete DosDupHandle DosMkDir DosMove DosQCurDir DosQCurDisk DosSet FileMode DosOpen DosQFileInfo DosRead DosQ FileMode DosQFSInfo DosQVerify DosRmDir DosSelectDisk DosFindClose DosFindFirst DosFindNext DosSet FileInfo DosSet Verify DosWrite DosFileLocks DosSet FHandState DosNewSize DosBufReset DosQFHandState DosSet FSInfo
	Memory Manager	DosFreeSeg DosSubAlloc DosSubFree DosSubSet DosAlloc Huge DosAlloc Seg DosRealloc Huge DosRealloc Seg DosGet Huge Shift DosCreate CS Alias
	NLS	DosCaseMap DosGet Ctry Info DosGet DBCSEv DosSet Ctry Code DosGet Collate DosGet Message DosIns Message DosPut Message
	Date and Time	DosSet Date Time DosGet Date Time
	Devices	DosDevConfig DosDevIOCtl DosDevIOCtl2
	Signals	DosHold Signal DosSet Sig Handler
	Misc	BadDynLink DosGetEnv DosGet Machine Mode DosGet Version DosError DosErr Class DosSet Vec
KBD		KbdCharIn KbdFlush Buffer KbdGet Status KbdSet Status KbdStringIn KbdPeek
VIO		VioGet Buf VioGet Config VioGet Cur Pos VioGet Cur Type VioGet Phys Buf VioRead Cell Str VioRead Char Str Vio Scroll Up Vio Scroll Dn Vio Scroll If Vio Scroll Rt Vio Scr Un Lock Vio Set Cur Pos Vio Set Cur Type Vio Set Mode Vio Get Mode Vio Show Buf Vio Wrt Cell Str Vio Wrt Char Str Vio Wrt Char Str Att Vio Wrt N Attr Vio Wrt N Cell Vio Wrt N Char Vio Wrt TTY Vio Scr Lock Vio Pop Up
Tools		BIND
Modules		DOSCALLS.DLL VIOCALS.DLL KBDCALLS.DLL MSG.DLL
Libraries		API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB

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