



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 · prokushev · [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 ENVVARNAME "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 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 |

| | |
|-------------------|---|
| Family API | |
| 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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