



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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KbdGetStatus

This call gets the current state of the keyboard.

Syntax

```
KbdGetStatus (StatData, KbdHandle)
```

Parameters

- StatData (PKBDINFO) - output : Address of the keyboard status structure:
 - length (USHORT) : Length, in bytes, of this data structure, including length.
 - 10 Only valid value.
 - sysstate (USHORT) : State as follows:

^ Bit ^ Description ^

| | | | |
|------|-----------------------------------------------------------------------|--|--|
| 15-9 | Reserved, set to zero. | | |
| 8 | Shift return is on. | | |
| 7 | Length of the turn-around character (meaningful only if bit 6 is on). | | |
| 6 | Turn-around character is modified. | | |
| 5 | Interim character flags are modified. | | |
| 4 | Shift state is modified. | | |
| 3 | ASCII mode is on. | | |
| 2 | Binary mode is on. | | |
| 1 | Echo off. | | |

| | | | |
|------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 0 | Echo on. | * turnchardef (USHORT) : Definition of the turn-around character. In ASCII and extended-ASCII format, the turn-around character is defined as the carriage return. In ASCII format only, the turn-around character is defined in the low-order byte. * intcharflag (USHORT) : Interim character flags: | Bit Description |
| 15-8 | NLS shift state. | | |
| 7 | Interim character flag is on. | | |
| 6 | Reserved, set to zero. | | |
| 5 | Application requested immediate conversion. | | |
| 4-0 | Reserved, set to zero. | * shiftstate (USHORT) : Shift state as follows: | Bit Description |
| 15 | SysReq key down | | |
| 14 | CapsLock key down | | |
| 13 | NumLock key down | | |
| 12 | ScrollLock key down | | |
| 11 | Right Alt key down | | |
| 10 | Right Ctrl key down | | |
| 9 | Left Alt key down | | |
| 8 | Left Ctrl key down | | |
| 7 | Insert on | | |
| 6 | CapsLock on | | |
| 5 | NumLock on | | |
| 4 | ScrollLock on | | |
| 3 | Either Alt key down | | |
| 2 | Either Ctrl key down | | |
| 1 | Left Shift key down | | |
| 0 | Right Shift key down | | |

- KbdHandle (HKBD) - input : Default keyboard or the logical keyboard.

Return Code

rc (USHORT) - return

Return code descriptions are:

- 0 NO_ERROR
- 376 ERROR_KBD_INVALID_LENGTH
- 439 ERROR_KBD_INVALID_HANDLE
- 445 ERROR_KBD_FOCUS_REQUIRED

- 447 ERROR_KBD_KEYBOARD_BUSY
- 464 ERROR_KBD_DETACHED
- 504 ERROR_KBD_EXTENDED_SG

Remarks

The initial state of the keyboard is established by the system at application load time. Some default states may be modified by the application through KbdSetStatus. KbdGetStatus returns only those keyboard parameters initially set by KbdSetStatus. The returned parameters are:

- Input Mode
- Interim Character Flags
- Shift State
- Echo State
- Turnaround Character

KbdGetStatus completes only when the handle has access to the physical keyboard (focus) or the handle is 0 and no other handle has the focus.

Family API Considerations

Some options operate differently in the DOS mode than in the OS/2 mode. Therefore, the following restrictions apply to KbdGetStatus when coding in the DOS mode:

- Interim character is not supported
- TurnAround character is not supported
- NLS_SHIFT_STATE is always NULL.
- KbdHandle is ignored.

Bindings

C Binding

```
typedef struct _KBDINFO {           /* kbst */
    USHORT cb;                       /* length in bytes of this structure */
    USHORT fsMask;                   /* bit mask of functions to be altered */
    USHORT chTurnAround;             /* define TurnAround character */
    USHORT fsInterim;                /* interim character flags */
    USHORT fsState;                  /* shift states */
}KBDINFO;

#define INCL_KBD

USHORT rc = KbdGetStatus(Structure, KbdHandle);

PKBDINFO Structure;                /* Data structure */
```

```
HKBD          KbdHandle;      /* Keyboard handle */

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

MASM Binding

```
KBDINFO struc
    kbst_cb          dw ? ;length in bytes of this structure
    kbst_fsMask      dw ? ;bit mask of functions to be altered
    kbst_chTurnAround dw ? ;define TurnAround character
    kbst_fsInterim   dw ? ;interim character flags
    kbst_fsState     dw ? ;shift states
KBDINFO ends

EXTRN KbdGetStatus:FAR
INCL_KBD EQU 1

PUSH@ OTHER Structure ;Data structure
PUSH WORD KbdHandle ;Keyboard handle
CALL KbdGetStatus

Returns WORD
```

Note

This text based on [http://www.edm2.com/index.php/KbdGetStatus_\(FAPI\)](http://www.edm2.com/index.php/KbdGetStatus_(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 | |

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