

## KbdGetStatus

**Bindings:** C, MASM

This call gets the current state of the keyboard.

KbdGetStatus (StatData, KbdHandle)

*StatData* (**PKBDINFO**) - output Address of the keyboard status structure:

*length* (**USHORT**) Length, in bytes, of this data structure, including length.

10	Only valid value.
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*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

Bit	Description
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.

*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.

## C bindings

```

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 bindings

```

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

```

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