

KbdXlate

Bindings:

C:

```

typedef struct _KBDTRANS {      /* kbxl */
    UCHAR      chChar;          /* ASCII character code */
    UCHAR      chScan;         /* Scan code */
    UCHAR      fbStatus;       /* State of the character */
    UCHAR      bNlsShift;      /* Shift status (reserved set to zero) */
    USHORT     fsState;        /* Shift state */
    ULONG      time;
    USHORT     fsDD;
    USHORT     fsXlate;
    USHORT     fsShift;
    USHORT     sZero;
} KBDTRANS;

#define INCL_KBD

USHORT rc = KbdXlate(XlateRecord, KbdHandle);

PKBDTRANS      XlateRecord; /* Translation Record */
HKBD           KbdHandle;   /* Keyboard handle */

USHORT         rc;          /* return code

```

MASM:

```

KBDTRANS struc
    kbxl_chChar    db ? ;ASCII character code
    kbxl_chScan    db ? ;scan code
    kbxl_fbStatus  db ? ;State of the character
    kbxl_bNlsShift db ? ;shift status (reserved set to zero)
    kbxl_fsState   dw ? ;shift state
    kbxl_time      dd ?
    kbxl_fsDD      dw ?
    kbxl_fsXlate   dw ?
    kbxl_fsShift   dw ?
    kbxl_sZero     dw ?
KBDTRANS ends

EXTRN KbdXlate:FAR
INCL_KBD EQU 1

PUSH@ OTHER XlateRecord ;Translation Record
PUSH WORD KbdHandle ;Keyboard handle
CALL KbdXlate

```

Returns **WORD**

This call translates scan codes with shift states into ASCII codes.

KbdXlate (XlateRecord, KbdHandle)

XlateRecord (**PKBDTRANS**) - input Address of the translation record structure:

chardata (**KBDKEYINFO**) Character data information structure as defined in [KbdCharIn](#) call.

kbdflag (**USHORT**) See the [KbdDDFlagWord](#) call in the "Keyboard Device Driver" section of IBM Operating System/2 Version 1.2 I/O Subsystems And Device Support Volume 1.

xlate (**USHORT**) Translation flag:

| Value | Definition |
|-------|-------------------------|
| 0 | Translation incomplete. |
| 1 | Translation complete. |

xlatestate1 (**USHORT**) Identifies the state of translation across successive calls; initially the value should be zero. It may take several calls to this function to complete a character. The value should not be changed unless a new translation is required, that is, reset value to zero.

xlatestate2 (**USHORT**) See description for xlatestate1.

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

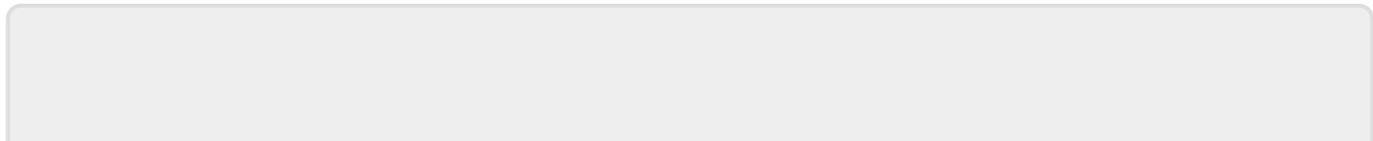
rc (**USHORT**) - return Return code descriptions are:

| | |
|-----|--------------------------|
| 0 | NO_ERROR |
| 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

It may take several calls to complete a translation because of accent key combinations, or other complex operations.

The Xlatestate1 and Xlatestate2 are for use by the keyboard translation routines. These fields are reserved and must only be accessed by the caller prior to starting a translation sequence and then they must be set to zero. The KbdXlate function is intended to be used for translating a particular scan code for a given shift state. The KbdXlate function is not intended to be a replacement for the OS/2 system keystroke translation function.



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