 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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# KbdStringIn

This call reads a character string (character codes only) from the keyboard.

## Syntax

```
KbdStringIn (CharBuffer, StringLength, IOWait, KbdHandle)
```

## Parameters

- CharBuffer (PCH) - output : Address of the character string buffer.
- StringLength (PSTRINGINBUF) - input/output : Address of the length of the character string buffer. On entry, buflen is the maximum length, in bytes, of the buffer. The maximum length that can be specified is 255. Template processing has meaning only in the ASCII mode.
  - buflen (USHORT) : Length of the input buffer.
  - inputlen (USHORT) : Number of bytes read into the buffer.
- IOWait (USHORT) - input : Wait if a character is not available.
  - 0 - Wait. In Binary input mode, the requestor waits until CharBuffer is full. In ASCII input mode, the requestor waits until a carriage return is pressed.
  - 1 - No wait. The requestor gets an immediate return if no characters are available. If characters are available, KbdStringIn returns immediately with as many characters as are available (up to the maximum). No wait is not supported in ASCII input mode.
- KbdHandle (HKBD) - input : Default keyboard or the logical keyboard.

## Return Code

rc (USHORT) - return

Return code descriptions are:

- 0 NO_ERROR
- 375 ERROR_KBD_INVALID_IOWAIT
- 439 ERROR_KBD_INVALID_HANDLE
- 445 ERROR_KBD_FOCUS_REQUIRED
- 464 ERROR_KBD_DETACHED

- 504 ERROR_KBD_EXTENDED_SG

# Remarks

The character strings may be optionally echoed on the display if echo mode is set. When echo is on each character is echoed as it is read from the keyboard. Echo mode and BINARY mode are mutually exclusive. Reference KbdSetStatus and KbdGetStatus for more information.

The default input mode is ASCII. In ASCII mode, 2-byte character codes only return in complete form. An extended ASCII code is returned in a 2-byte string. The first byte is 0DH or E0H and the next byte is an extended code.

In input mode (BINARY, ASCII), The following returns can be set and retrieved with KbdSetStatus and KbdGetStatus:

- Turnaround Character
- Echo Mode
- Interim Character Flag
- Shift State

The received input length is also used by the KbdStringIn line edit functions for re-displaying and entering a caller specified string. On the next KbdStringIn call the received input length indicates the length of the input buffer that may be recalled by the user using the line editing keys. A value of 0 inhibits the line editing function for the current KbdStringIn request.

KbdStringIn completes when the handle has access to the physical keyboard (focus), or is equal to zero 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 KbdStringIn when coding in the DOS mode:

- KbdHandle is ignored

Refer to the DosRead Family API Considerations for differences between DOS and OS/2 node when reading from a handle opened to the CON device.

# Bindings

## C Binding

```
typedef struct _STRINGINBUF {   /* kbsi */
  USHORT cb;                    /* input buffer length */
  USHORT cchIn;                 /* received input length */
} STRINGINBUF;
```

```
#define INCL_KBD

USHORT  rc = KbdStringIn(CharBuffer, Length, IOWait, KbdHandle);

PCH             CharBuffer;    /* Char string buffer */
PSTRINGINBUF    Length;        /* Length table */
USHORT          IOWait;        /* Indicate if wait for char */
HKBD            KbdHandle;     /* Keyboard handle */

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

### MASM Binding

```
STRINGINBUF struc
  kbsi_cb    dw  ? ;input buffer length
  kbsi_cchIn dw  ? ;received input length
STRINGINBUF ends

EXTRN  KbdStringIn:FAR
INCL_KBD            EQU 1

PUSH@  OTHER   CharBuffer    ;Char string buffer
PUSH@  OTHER   Length        ;Length table
PUSH   WORD    IOWait        ;Indicate if wait for char
PUSH   WORD    KbdHandle     ;Keyboard handle
CALL   KbdStringIn

Returns WORD
```

## Note

Text based on http://www.edm2.com/index.php/KbdStringIn_(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 |
| | 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 |
| 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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