This call allows a process to set the pointer shape and size to be used as the mouse device driver pointer image for all applications in a session.

Syntax

MouSetPtrShape (PtrBuffer, PtrDefRec, DeviceHandle)

Parameters

;PtrBuffer (PBYTE) - input: Address of a buffer containing the bit image used by the mouse device driver as the pointer shape for that session. The buffer consists of AND and XOR pointer masks in a format meaningful to the pointer draw device driver. :For CGA compatible text modes (0, 1, 2, and 3) the following describes the AND and XOR pointer mask bit definitions for each character cell of the masks. Bit values are: ::{|class=“wikitable” !Bit||Description

15
14-12
11
10-8
7-0

;PtrDefRec (PPTRSHAPE) - input: Address of the structure where the application stores the necessary data for the pointer draw device driver to build a row-by-column image for each bit plane for the current display mode. :`'Programming Note:'` For other custom displays and for the extended modes of the EGA attachment, it is possible to set the display to modes that require multiple bit planes. In these cases, the area sized by the row and column limits must be repeated for each bit plane supported in that mode. Consequently, the calling process must supply enough data to allow the mouse device driver to draw the pointer shape on all currently supported bit planes in that session. For text modes, row and column offset must equal 0. ;DeviceHandle (HMOU) - input: Contains the handle of the mouse device obtained from a previous MouOpen.

Return Code

;rc (USHORT) - return:Return code descriptions are: *0 NO_ERROR *385 ERROR_MOUSE_NO_DEVICE *387 ERROR_MOUSE_INV_PARMS *466 ERROR_MOU_DETACHED *501 ERROR_MOUSE_NO_CONSOLE *505 ERROR_MOU_EXTENDED_SG

Remarks

An application passes a data image to the mouse device driver that the mouse driver applies to the screen whenever the logical pointer position is not located in the application-defined collision area. The application synchronizes use of the screen with the mouse driver by way of MouRemovePtr and MouDrawPtr.

The pointer shape is dependent on the display device driver used to support the display device. OS/2

supports text and graphics modes. These modes are restricted to modes 0 through 7, depending on the display device. Character modes (modes 0, 1, 2, 3, and 7) support the pointer cursor only as a reverse block character. This reverse block character has a character height and width equal to 1.

The pointer shape is mapped by the Pointer Draw Device Driver and determined completely by the application. The height and width may vary from 1 through the pel size of the display screen. For restrictions concerning the Pointer Draw Device Driver, see IBM Operating System/2 Version 1.2 I/O Subsystems And Device Support Volume 1.

Bindings

C

<PRE> typedef struct _PTRSHAPE { /* moups */

```
USHORT cb;                /* total length necessary to build image */
USHORT col;               /* # of columns in mouse shape */
USHORT row;               /* number of rows in mouse shape */
USHORT colHot;            /* column coordinate of pointer image hotspot */
USHORT rowHot;            /* row coordinate of pointer image hotspot */
```

} PTRSHAPE;

#define INCL_MOU

USHORT rc = MouSetPtrShape(PtrBuffer, PtrDefRec, DeviceHandle);

PBYTE PtrBuffer; /* Pointer shape buffer */ PPTRSHAPE PtrDefRec; /* Pointer definition record */ HMOU DeviceHandle; /* Mouse device handle */

USHORT rc; /* return code */ </PRE>

MASM

<PRE> PTRSHAPE struc

```
moups_cb      dw  ? ;total length necessary to build image
moups_col     dw  ? ;# of columns in mouse shape
moups_row     dw  ? ;number of rows in mouse shape
moups_colHot  dw  ? ;column coordinate of pointer image hotspot
moups_rowHot  dw  ? ;row coordinate of pointer image hotspot
```

PTRSHAPE ends

EXTRN MouSetPtrShape:FAR INCL_MOU EQU 1

PUSH@ OTHER PtrBuffer ;Pointer shape buffer PUSH@ OTHER PtrDefRec ;Pointer definition record PUSH WORD DeviceHandle ;Mouse device handle CALL MouSetPtrShape

Returns WORD </PRE>

Mou

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