

MouRegister

Bindings: [C](#), [MASM](#)

This call registers a mouse subsystem within a session.

MouRegister (ModuleName, EntryName, Mask)

ModuleName (**PSZ**) - input Address of the dynamic link module name. The maximum length is 9 bytes (including ASCIIZ terminator).

EntryName (**PSZ**) - input Address of the dynamic link entry point name of a routine that receives control when any of the registered functions are called. The maximum length is 33 bytes (including ASCIIZ terminator).

Mask (**ULONG**) - input A mask of bits, where each bit set to 1 identifies a mouse function being registered. Bit values are:

Bit	Description
31-22	Reserved, set to zero
21	MouSetDevStatus
20	MouFlushQue
19	MouInitReal
18	MouSetPtrPos
17	MouGetPtrPos
16	MouRemovePtr
15	MouDrawPtr
14	MouSetPtrShape
13	MouGetPtrShape
12	MouClose
11	MouOpen
10	Reserved
9	Reserved
8	MouSetEventMask
7	MouSetScaleFact
6	MouGetEventMask
5	MouGetScaleFact
4	MouReadEventQue
3	MouGetNumQueEl
2	MouGetDevStatus
1	MouGetNumMickey
0	MouGetNumButtons

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

0	NO_ERROR
385	ERROR_MOUSE_NO_DEVICE
413	ERROR_MOUSE_INVALID_ASCII

414	ERROR_MOUSE_INVALID_MASK
415	ERROR_MOUSE_REGISTER
466	ERROR_MOU_DETACHED
505	ERROR_MOU_EXTENDED_SG

Remarks

The Base Mouse Subsystem is the default mouse subsystem. There can be only one [MouRegister](#) outstanding for each session without an intervening [MouDeRegister](#). [MouDeRegister](#) must be issued by the same process that issued [MouRegister](#).

When any registered function is called, control is routed to *EntryName*. When this routine is entered, four additional values are pushed onto the stack. The first is the index number (Word) of the function being called. The second is a near pointer (Word). The third is the caller's DS register (Word). The fourth is the return address (DWord) to the mouse router. For example, if [MouGetNumMickeyes](#) were called and control routed to *EntryName*, the stack would appear as if the following instructions were executed:

```
PUSH@ WORD    NumberOfMickeyes
PUSH  WORD    DeviceHandle
CALL  FAR     MouGetNumMickeyes
PUSH  WORD    Function Code
CALL  NEAR    Entry point in Mouse Router
PUSH  DS
CALL  FAR     EntryName.
```

When a registered function returns to the Mouse Router, AX is interpreted as follows:

AX = 0 No error. Do not invoke the Base Mouse Subsystem routine. Return AX = 0.

AX = -1 Invoke the BaseMouse Subsystem routine. Return AX = return code from the Base Mouse Subsystem.

AX = error (if not 0 or -1) Do not invoke the Base Mouse Subsystem Routine. Return AX = error.

When the mouse router receives a mouse call, it routes it to the Base Mouse Subsystem unless an application or other mouse subsystem has previously issued [MouRegister](#) for that call. If the call was registered, the subsystem is entered at the *EntryName* specified, and provided with the applicable function code.

The registered function mask is used to determine whether a requested function is performed by the registered mouse subsystem or default to the Base Mouse Subsystem.

The following list shows the relationship of the mouse API calls and the Function Code passed to either the Base Mouse Subsystem or a registered mouse subsystem.

MOU API calls	Function Code
MouGetNumButtons	00H
MouGetNumMickeyes	01H
MouGetDevStatus	02H
MouGetNumQueEI	03H

MOU API calls	Function Code
MouReadEventQue	03H
MouGetScaleFact	05H
MouGetEventMask	06H
MouSetScaleFact	07H
MouSetEventMask	08H
Reserved	09H
Reserved	0AH
MouOpen	0BH
MouClose	0CH
MouGetPtrShape	0DH
MouSetPtrShape	0EH
MouDrawPtr	0FH
MouRemovePtr	10H
MouGetPtrPos	11H
MouSetPtrPos	12H
MouInitReal	13H
MouFlushQue	14H
MouSetDevStatus	15H

A registered mouse subsystem must leave the stack, on exit, in the exact state it was received.

C bindings

```
#define INCL_MOUSE

USHORT  rc = MouRegister(ModuleName, EntryName, Mask);

PSZ      ModuleName;    /* Module Name */
PSZ      EntryName;     /* Entry Name */
ULONG    Mask;          /* Function Mask */

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

MASM bindings

```
EXTRN  MouRegister:FAR
INCL_MOUSE  EQU 1

PUSH@  ASCIIZ  ModuleName  ;Module Name
PUSH@  ASCIIZ  EntryName   ;Entry Name
PUSH    DWORD   Mask       ;Function Mask
CALL    MouRegister

Returns  WORD
```

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