

**NAME**

XkbSetPtrActionX - Sets the high\_XXX and low\_XXX fields of act from the signed integer value x

**SYNOPSIS**

```
void XkbSetPtrActionX (XkbPtrAction act, int x);
```

**ARGUMENTS**

*act* action in which to set X

*x* new value to set

**DESCRIPTION**

Actions associated with the XkbPtrAction structure move the pointer when keys are pressed and released.

If the MouseKeys control is not enabled, KeyPress and KeyRelease events are treated as though the action is XkbSA\_NoAction.

If the MouseKeys control is enabled, a server action of type XkbSA\_MovePtr instructs the server to generate core pointer MotionNotify events rather than the usual KeyPress event, and the corresponding KeyRelease event disables any mouse keys timers that were created as a result of handling the XkbSA\_MovePtr action.

The *type* field of the XkbPtrAction structure is always XkbSA\_MovePtr.

The *flags* field is a bitwise inclusive OR of the masks shown in Table 1.

Table 1 Pointer Action

Types

Action	Meaning
Type	

XkbSA_NoAcceleration	If not set, and the MouseKeysAccel control is enabled, the KeyPress initiates a mouse keys timer for this key; every time the timer expires, the cursor moves.
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XkbSA_MoveAbsoluteX	If set, the X portion of the structure specifies the new pointer X coordinate. Otherwise, the X portion is added to the current pointer X coordinate to determine the new pointer X coordinate.
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`XkbSA_MoveAbsoluteY` If set, the Y portion of the structure specifies the new pointer Y coordinate. Otherwise, the Y portion is added to the current pointer Y coordinate to determine the new pointer Y coordinate.

Each of the X and Y coordinates of the `XkbPtrAction` structure is composed of two signed 16-bit values, that is, the X coordinate is composed of *high\_XXX* and *low\_XXX*, and similarly for the Y coordinate. `Xkb` provides the following macros, to convert between a signed integer and two signed 16-bit values in `XkbPtrAction` structures.

## STRUCTURES

```
typedef struct _XkbPtrAction {
    unsigned char  type;      /* XkbSA_MovePtr */
    unsigned char  flags;    /* determines type of pointer motion */
    unsigned char  high_XXX; /* x coordinate, high bits*/
    unsigned char  low_XXX;  /* y coordinate, low bits */
    unsigned char  high_YYY; /* x coordinate, high bits */
    unsigned char  low_YYY;  /* y coordinate, low bits */
} XkbPtrAction;
```