NAME

XkbActionSetCtrls - Sets the ctrls0 through ctrls3 fields of act from ctrls

SYNOPSIS

void XkbActionSetCtrls (XkbCtrlsAction act, unsigned int ctrls);

ARGUMENTS

act action in which to set ctrls0-ctrls3

ctrls value to set in ctrls0-ctrls3

DESCRIPTION

Actions associated with the XkbCtrlsAction structure change the state of the boolean controls.

The *type* field can have any one of the values shown in Table 1.

Table 1 Controls Action Types

Type	Effect
XkbSA_SetControls	A key press enables any boolean controls specified in the ctrls fields that were not already enabled at the time of the key press. A key release disables any controls enabled by the key press. This action can cause XkbControlsNotify events.
XkbSA_LockControls	If the XkbSA_LockNoLock bit is not set in the flags field, a key press enables any controls specified in the ctrls fields that were not already enabled at the time of the key press. If the XkbSA_LockNoUnlock bit is not set in the flags field, a key release disables any controls specified in the ctrls fields that were not already disabled at the time of the key press. This action can cause XkbControlsNotify events.

The *flags* field is composed of the bitwise inclusive OR of the masks shown in Table 2.

Table 2 Control Action Flags

Flag	Meaning
XkbSA_LockNoLock	If set, and the action type is XkbSA_LockControls, the server only dis-
	ables controls.
XkbSA_LockNoUnlock	If set, and the action type is XkbSA_LockControls, the server only en-
	ables controls.

The XkbSA_SetControls action implements a key that enables a boolean control when pressed and disables it when released. The XkbSA_LockControls action is used to implement a key that toggles the state of a boolean control each time it is pressed and released. The XkbSA_LockNoLock and XkbSA_LockNoUnlock flags allow modifying the toggling behavior to only unlock or only lock the boolean control.

The *ctrls0*, *ctrls1*, *ctrls2*, and *ctrls3* fields represent the boolean controls in the *enabled_ctrls* field of the controls structure. Xkb macros, to convert between the two formats.

XkbActionSetCtrls sets the ctrls0 through ctrls3 fields of act from ctrls.

STRUCTURES

```
typedef struct _XkbCtrlsAction {
```

```
unsigned char type; /* XkbSA_SetControls, XkbSA_LockControls */
unsigned char type; /* ctrls0 through ctrls3 represent the boolean controls */
unsigned char type; /* ctrls0 through ctrls3 represent the boolean controls */
```

unsigned char ctrls1; /* ctrls0 through ctrls3 represent the boolean controls */ unsigned char ctrls0; /* ctrls0 through ctrls3 represent the boolean controls */ } XkbCtrlsAction;