NAME

XkbAllocControls - Allocates an XkbControlsRec structure in the XkbDescRec

SYNOPSIS

Status XkbAllocControls (XkbDescPtr *xkb*, **unsigned int** *which*);

ARGUMENTS

xkb Xkb description in which to allocate ctrls rec

which

mask of components of ctrls to allocate

DESCRIPTION

The need to allocate an XkbControlsRec structure seldom arises; Xkb creates one when an application calls *XkbGetControls* or a related function. For those situations where there is not an XkbControlsRec structure allocated in the XkbDescRec, allocate one by calling *XkbAllocControls*.

XkbAllocControls allocates the ctrls field of the xkb parameter, initializes all fields to zero, and returns Success. If the ctrls field is not NULL, XkbAllocControls simply returns Success. If xkb is NULL, XkbAllocControls reports a BadMatch error. If the ctrls field could not be allocated, it reports a BadAlloc error.

The *which* mask specifies the individual fields of the *ctrls* structure to be allocated and can contain any of the valid masks defined in Table 1. (SHOULD THIS COMMENT BE LEFT IN????) Because none of the currently existing controls have any structures associated with them, which is currently of little practical value in this call.

Table 1 shows the actual values for the individual mask bits used to select controls for modification and to enable and disable the control. Note that the same mask bit is used to specify general modifications to the parameters used to configure the control (which), and to enable and disable the control (enabled_ctrls). The anomalies in the table (no "ok" in column) are for controls that have no configurable attributes; and for controls that are not boolean controls and therefore cannot be enabled or disabled.

| Table 1 Controls Mask | | | | | |
|-----------------------|-------|--------------|--|--|--|
| Bits | | | | | |
| | | | | | |
| Mask | which | enabledValue | | | |
| Bit | or | | | | |

| changed | ctrls | ctrls |
|---------|-------|-------|
| Changeu | Cuis | Cuis |

| XkbRepeatKeysMask | ok | ok | (1L<<0) |
|-----------------------------|------|----|-------------------------|
| XkbSlowKeysMask | ok | ok | (1L<<1) |
| XkbBounceKeysMask | ok | ok | (1L<<2) |
| XkbStickyKeysMask | ok | ok | (1L<<3) |
| XkbMouseKeysMask | ok | ok | (1L<<4) |
| XkbMouseKeysAccelMasl | k ok | ok | (1L<<5) |
| XkbAccessXKeysMask | ok | ok | (1L<<6) |
| XkbAccessXTimeoutMask | ok | ok | (1L<<7) |
| XkbAccessXFeedbackMaskok ok | | ok | (1L<<8) |
| XkbAudibleBellMask | | ok | (1L<<9) |
| XkbOverlay1Mask | | ok | (1L<<10) |
| XkbOverlay2Mask | | ok | (1L<<11) |
| XkbIgnoreGroupLockMask ok | | ok | (1L<<12) |
| XkbGroupsWrapMask | ok | | (1L<<27) |
| XkbInternalModsMask | ok | | (1L<<28) |
| XkbIgnoreLockModsMask | ok | | (1L<<29) |
| XkbPerKeyRepeatMask | ok | | (1L<<30) |
| XkbControlsEnabledMask | ok | | (1L<<31) |
| XkbAccessXOptionsMask | ok | ok | (XkbStickyKeysMask |
| | | | XkbAccessXFeedbackMask) |
| XkbAllBoolean Ctrls Mask | | ok | (0x00001FFF) |
| XkbAllControlsMask | ok | | (0xF8001FFF) |

RETURN VALUES

SUCCESS allocates the ctrls field of the xkb parameter, initializes all fields to zero

the ctrls field is not NULL

DIAGNOSTICS

BadAlloc Unable to allocate storage

BadMatch A compatible version of Xkb was not available in the server or an argument has

correct type and range, but is otherwise invalid

SEE ALSO

XkbGetControls(3)