

**NAME**

XkbGetKeyVirtualModMap - Obtain the virtual modifier map (the vmodmap array) for a subset of the keys in a keyboard description

**SYNOPSIS**

**Status** XkbGetKeyVirtualModMap (**Display** \**dpy*, **unsigned int** *first*, **unsigned int** *num*, **XkbDescPtr** *xkb*);

**ARGUMENTS**

*dpy* connection to server

*first*

keycode of first key to fetch

*num*

number of keys for which virtual mod maps are desired

*xkb* Xkb description where results will be placed

**DESCRIPTION**

*XkbGetKeyVirtualModmap* sends a request to the server to obtain the virtual modifier mappings for *num* keys on the keyboard starting with key *first*. It waits for a reply and returns the virtual modifier mappings in the *server->vmodmap* array of *xkb*. If successful, *XkbGetKeyVirtualModMap* returns Success. The *xkb* parameter must be a pointer to a valid Xkb keyboard description.

If the *server* map in the *xkb* parameter has not been allocated, *XkbGetKeyVirtualModMap* allocates and initializes it before obtaining the virtual modifier mappings.

If the server does not have a compatible version of Xkb, or the Xkb extension has not been properly initialized, *XkbGetKeyVirtualModMap* returns BadMatch. If *num* is less than 1 or greater than XkbMaxKeyCount, *XkbGetKeyVirtualModMap* returns BadValue. If any allocation errors occur, *XkbGetKeyVirtualModMap* returns BadAlloc.

**RETURN VALUES**

Success	The <i>XkbGetKeyVirtualModmap</i> function returns Success following a successful reply from the server to obtain the virtual modifier mappings for <i>num</i> keys on the keyboard starting with key <i>first</i> .
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**DIAGNOSTICS**

<b>BadAlloc</b>	Unable to allocate storage
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**BadMatch**      A compatible version of Xkb was not available in the server or an argument has correct type and range, but is otherwise invalid

**BadValue**      An argument is out of range