## **NAME**

XmbLookupString, XwcLookupString, Xutf8LookupString - obtain composed input from an input method **SYNTAX** 

int XmbLookupString(XIC ic, XKeyPressedEvent \*event, char \*buffer return, int bytes buffer, KeySym \*keysym return, Status \*status return);

int XwcLookupString(XIC ic, XKeyPressedEvent \*event, wchar\_t \*buffer\_return, int wchars\_buffer, KeySym \*keysym return, Status \*status return);

int Xutf8LookupString(XIC ic, XKeyPressedEvent \*event, char \*buffer\_return, int bytes\_buffer, KeySym \*keysym\_return, Status \*status\_return);

## **ARGUMENTS**

buffer\_return Returns a multibyte string or wide character string (if any) from the input method.

bytes\_buffer

wchars\_buffer Specifies space available in the return buffer.

Specifies the key event to be used. event

icSpecifies the input context.

Returns the KeySym computed from the event if this argument is not NULL. keysym\_return

status\_return Returns a value indicating what kind of data is returned.

## **DESCRIPTION**

The XmbLookupString, XwcLookupString and Xutf8LookupString functions return the string from the input method specified in the buffer\_return argument. If no string is returned, the buffer\_return argument is unchanged.

The KeySym into which the KeyCode from the event was mapped is returned in the keysym\_return argument if it is non-NULL and the status return argument indicates that a KeySym was returned. If both a string and a KeySym are returned, the KeySym value does not necessarily correspond to the string returned.

XmbLookupString and Xutf8LookupString return the length of the string in bytes, and XwcLookup-String returns the length of the string in characters. Both XmbLookupString and XwcLookupString return text in the encoding of the locale bound to the input method of the specified input context, and Xutf8LookupString returns text in UTF-8 encoding.

Each string returned by XmbLookupString and XwcLookupString begins in the initial state of the encoding of the locale (if the encoding of the locale is state-dependent).

Note: To ensure proper input processing, it is essential that the client pass only **KeyPress** events to **Xm**bLookupString, XwcLookupString and Xutf8LookupString. Their behavior when a client passes a **KeyRelease** event is undefined.

Clients should check the status\_return argument before using the other returned values. These three functions each return a value to status\_return that indicates what has been returned in the other arguments. The possible values returned are:

**XBufferOverflow** The input string to be returned is too large for the supplied buffer return.

> The required size (for XmbLookupString, Xutf8LookupString in bytes; for **XwcLookupString** in characters) is returned as the value of the function, and the contents of buffer\_return and keysym\_return are not modified. The client should recall the function with the same event and a buffer of adequate

size to obtain the string.

No consistent input has been composed so far. The contents of buffer\_return **XLookupNone** 

and keysym\_return are not modified, and the function returns zero.

XLookupChars Some input characters have been composed. They are placed in the

buffer\_return argument, using the encoding described above, and the string length is returned as the value of the function. The content of the

keysym\_return argument is not modified.

**XLookupKeySym** A KeySym has been returned instead of a string and is returned in

keysym return. The content of the buffer return argument is not modified,

and the function returns zero.

XLookupBoth Both a KeySym and a string are returned; XLookupChars and XLookup-

KeySym occur simultaneously.

It does not make any difference if the input context passed as an argument to **XmbLookupString**, **XwcLookupString** and **Xutf8LookupString** is the one currently in possession of the focus or not. Input may have been composed within an input context before it lost the focus, and that input may be returned on subsequent calls to **XmbLookupString**, **XwcLookupString** or **Xutf8LookupString** even though it does not have any more keyboard focus.

The function **Xutf8LookupString** is an extension introduced by The XFree86 Project, Inc., in their 4.0.2 release. Its presence is indicated by the macro **X\_HAVE\_UTF8\_STRING**.

## **SEE ALSO**

XLookupKeysym(3), Compose(5) Xlib – C Language X Interface