XtSetKeyTranslator, XtTranslateKeycode, XtRegisterCaseConverter, XtConvertCase – convert
KeySym to KeyCodes

void XtSetKeyTranslator(display, proc)
   Display *display;
   XtKeyProc proc;
void XtTranslateKeycode(display, keycode, modifiers, modifiers_return, keysym_return)
   Display *display;
   KeyCode keycode;
   Modifiers modifiers;
   Modifiers *modifiers_return;
   KeySym *keysym_return;
void XtRegisterCaseConverter(display, proc, start, stop)
   Display *display;
   XtCaseProc proc;
   KeySym start;
   KeySym stop;
void XtConvertCase(display, keysym, lower_return, upper_return)
   Display *display;
   KeySym keysym;
   KeySym *lower_return;
   KeySym *upper_return;

display Specifies the display.
keycode Specifies the KeyCode to translate.
keysym Specifies the KeySym to convert.
keysym_return Returns the resulting KeySym.
lower_return Returns the lowercase equivalent of the KeySym.
upper_return Returns the uppercase equivalent of the KeySym.
modifiers Specifies the modifiers to the KeyCode.
modifiers_return Returns a mask that indicates the modifiers actually used to generate the KeySym.
proc Specifies the procedure that is to perform key translations or conversions.
start Specifies the first KeySym for which this converter is valid.
stop Specifies the last KeySym for which this converter is valid.

The XtSetKeyTranslator function sets the specified procedure as the current key translator. The default
translator is XtTranslateKey, an XtKeyProc that uses Shift and Lock modifiers with the interpretations
defined by the core protocol. It is provided so that new translators can call it to get default KeyCode-to-
KeySym translations and so that the default translator can be reinstalled.

The XtTranslateKeycode function passes the specified arguments directly to the currently registered Key-
Code to KeySym translator.

The XtRegisterCaseConverter registers the specified case converter. The start and stop arguments pro-
vide the inclusive range of KeySyms for which this converter is to be called. The new converter overrides
any previous converters for KeySyms in that range. No interface exists to remove converters; you need to
register an identity converter. When a new converter is registered, the Intrinsics refreshes the keyboard
state if necessary. The default converter understands case conversion for all KeySyms defined in the core
protocol.

The XtConvertCase function calls the appropriate converter and returns the results. A user-supplied
XtKeyProc may need to use this function.
X Toolkit Intrinsics – C Language Interface
Xlib – C Language X Interface