NAME
     XIQueryPointer - get device pointer coordinates.

SYNOPSIS
     #include <X11/extensions/XInput2.h>

     Bool XIQueryPointer(Display *display,
                     int deviceid,
                     Window win,
                     Window *root_return,
                     Window *child_return,
                     double *root_x_return,
                     double *root_y_return,
                     double *win_x_return,
                     double *win_y_return,
                     XIButtonState *buttons_return,
                     XIModifierState *modifiers_return,
                     XIGroupState *group_return);

     buttons_return
          Returns the current button state.

     child_return
          Returns the child window that the pointer is located in,
          if any.

     deviceid
          Specifies the device to query.

     display
          Specifies the connection to the X server.

     group_return
          Returns the current group state.

     modifiers_return
          Returns the current state of the modifier keys.

     root_return
          Returns the root window that the pointer is in.

root_x_return, root_y_return
> Return the pointer coordinates relative to the root
> window's origin.

win
> Specifies the window.

win_x_return, win_y_return
> Return the pointer coordinates relative to the specified
> window.

DESCRIPTION

The XIQueryPointer function returns the root window the device's pointer is logically on and the pointer coordinates relative to the root window's origin. If XIQueryPointer returns False, the pointer is not on the same screen as the specified window, and XIQueryPointer returns None to child_return and zero to win_x_return and win_y_return. If XIQueryPointer returns True, the pointer coordinates returned to win_x_return and win_y_return are relative to the origin of the specified window. In this case, XIQueryPointer returns the child that contains the pointer, if any, or else None to child_return.

XIQueryPointer returns the current logical state of the buttons buttons_return. The keyboard paired with the master pointer is selected to obtain the data for modifiers_return and group_return.

The mask field in buttons_return is dynamically allocated and must be freed by the caller.

XIQueryPointer is identical to XQueryPointer but specifies the device explicitly.

XIQueryPointer can generate a BadDevice and a BadWindow error.

DIAGNOSTICS

BadDevice
> An invalid device was specified. The device does not
> exist or is not a pointer device.

BadWindow
    A value for a Window argument does not name a defined
    window.

SEE ALSO
    XQueryPointer(3)