



Linux Ubuntu 26.04 Manual Pages on command 'XtRegisterExtensionSelector.3'

\$ man XtRegisterExtensionSelector.3

XtInsertEventHandler(3) XT FUNCTIONS XtInsertEventHandler(3)

NAME

XtInsertEventHandler, XtRemoveEventHandler, XtRegisterExtensionSelector, XtSetEvent?
Dispatcher, XtDispatchEventToWidget - extension event handling

SYNTAX

```
#include <X11/Intrinsic.h>

void XtInsertEventHandler(Widget widget, int event_type, XtPointer select_data, XtEven?
    tHandler proc, XtPointer client_data, XtListPosition position);

void XtRemoveEventHandler(Widget widget, int event_type, XtPointer select_data, XtEven?
    tHandler proc, XtPointer client_data);

void XtRegisterExtensionSelector(Display* display, int min_event_type, int max_event_type,
    XtExtensionSelectProc proc, XtPointer client_data);

XtEventDispatchProc XtSetEventDispatcher(Display* display, int event_type, XtEventDispatch?
    Proc proc);

Boolean XtDispatchEventToWidget(Widget widget, XEvent* event);
```

ARGUMENTS

widget Specifies the widget for this event handler. Must be of class Core or any sub?
 class thereof.

event_type
 Specifies the event type.

select_data
 Specifies data used to select or deselect events from the server.

proc Specifies the proc.

client_data

Specifies additional data to be passed to the event handler.

position Specifies when the event handler is to be called relative to other previously registered handlers.

display Specifies the display.

min_event_type, max_event_type

Specifies the range of event types for this extension.

event Specifies a pointer to the event to be dispatched.

DESCRIPTION

The XtInsertEventTypeHandler function registers a procedure with the dispatch mechanism that is to be called when an event that matches the specified event_type is dispatched to the specified widget.

If event_type is one of the core X protocol events then select_data must be a pointer to a value of type EventMask, indicating the event mask to be used to select for the desired event. This event mask will be included in the value returned by XtBuildEventMask. If the widget is realized XtInsertEventTypeHandler calls XSelectInput if necessary. Specifying NULL for select_data is equivalent to specifying a pointer to an event mask containing 0. This is similar to the XtInsertRawEventHandler function.

If event_type specifies an extension event type then the semantics of the data pointed to by select_data are defined by the extension selector registered for the specified event type. In either case the Intrinsics are not required to copy the data pointed to by select_data, so the caller must ensure that it remains valid as long as the event handler remains registered with this value of select_data.

The position argument allows the client to control the order of the invocation of event handlers registered for the same event type. If the client does not care about the order, it should normally specify XtListTail, which registers this event handler after any previously registered handlers for this event type.

The XtRemoveEventTypeHandler function unregisters an even handler registered with XtInsertEventTypeHandler for the specified event type. The request is ignored if client_data does not match the value given with the handler was registered.

If event_type specifies one of the core X protocol events, select_data must be a pointer to a value of type EventMask, indicating the mask to be used to deselect for the appropriate event. If the widget is realized, XtRemoveEventTypeHandler calls XSelectInput if necessary.

Specifying `NULL` for `select_data` is equivalent to specifying a pointer to an event mask containing 0. This is similar to the `XtRemoveRawEventHandler` function.

If `event_type` specifies an extension event type then the semantics of the data pointed to by `select_data` are defined by the extension selector registered for the specified event type.

The `XtRegisterExtensionSelector` function registers a procedure to arrange for the delivery of extension events to widgets.

If `min_event_type` and `max_event_type` match the parameters to a previous call to `XtRegisterExtensionSelector` for the same display, the proc and `client_data` replace the previously registered values. If the range specified by `min_event_type` and `max_event_type` overlaps the range of the parameters to a previous call for the same display in any other way, an error results.

The `XtSetEventDispatcher` function registers the event dispatcher procedure specified by `proc` for events with the type `event_type`. The previously registered dispatcher (or the default dispatcher if there was no previously registered dispatcher) is returned. If `proc` is `NULL`, the default procedure is restored for the specified type.

In the future, when `XtDispatchEvent` is called with an event of `event_type`, the specified `proc` (or the default dispatcher) will be invoked to determine a widget to which to dispatch the event.

The `XtDispatchEventToWidget` function scans the list of registered event handlers for the specified widget and calls each handler that has been registered for the specified event type, subject to the `continue_to_dispatch` value returned by each handler. The `Intrinsics` behave as if event handlers were registered at the head of the list for `Expose`, `NoExpose`, `GraphicsExpose`, and `VisibilityNotify` events to invoke the widget's expose procedure according to the exposure compression rules and to update the widget's visible field if `visible_interest` is `True`. These internal event handlers never set `continue_to_dispatch` to `False`.

`XtDispatchEventToWidget` returns `True` if any event handler was called and `False` otherwise.

SEE ALSO

`XtGetKeyboardFocusWidget(3)`

X Toolkit Intrinsics - C Language Interface

Xlib - C Language X Interface