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# Rocky Enterprise Linux 9.2 Manual Pages on command 'XtInsertEventTypeHandler.3'

## *\$ man XtInsertEventTypeHandler.3*

XtInsertEventTypeHandler(3) XT FUNCTIONS

XtInsertEventTypeHandler(3)

#### NAME

XtInsertEventTypeHandler, XtRemoveEventTypeHandler, XtRegisterExtensionSelector, XtSet?

EventDispatcher, XtDispatchEventToWidget - extension event handling

### SYNTAX

#include <X11/Intrinsic.h>

void XtInsertEventTypeHandler(Widget widget, int event\_type, XtPointer select\_data,

XtEventHandler proc, XtPointer client\_data, XtListPosition position);

void XtRemoveEventTypeHandler(Widget widget, int event\_type, XtPointer select\_data,

XtEventHandler 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, XtEventDis?

patchProc 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. Specify? ing 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 reg? istered 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 previ? ously 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 on 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 neces? sary. 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 XtRegis? terExtensionSelector 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 de? fault 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 ot which to dis? patch 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 ac? cording to the exposure compression rules and to update the widget's visible field if vis? ible\_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

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