RemoveEventHandler will do nothing. XtRemoveEventHandler is also silent about failing to remove a handler that was never added or a handler that was incorrectly specified.

#### 9.1.4 Adding Raw Event Handlers

Xt also allows you to add event handlers without actually selecting events. The main purpose of this feature is for Xt to register functions before widgets are realized (because events can't be selected until windows are created during realization). Event handlers registered without selecting events are called raw event handlers, and are added with XtAddRaw-EventHandler or XtInsertRawEventHandler, which have the same calling sequences as XtAddEventHandler and XtInsertRawEventHandler. The event mask indicates which events the handler will be called in response to, but only when these events are selected elsewhere. Raw event handlers are supported mostly because they are used inside Xt. They are mentioned here only for completeness—you are unlikely to need them.

A raw event handler might be used to "shadow" another event handler (both added with the same event mask), such that until a primary event handler is added, the shadow handler will never be called. The primary handler will be added with XtAddEventHandler, which will select events, and then both handlers will be called when the appropriate events occur.

However, the "shadowing" technique is not necessary to assure that multiple calls to Xt-AddEventHandler don't result in wasted XSelectInput calls in which the event mask has not changed. Xt keeps a cache of the event masks of each widget, and calls XSelectInput only when it is necessary to change the window's event mask attribute in the server.

Raw event handlers are removed with a call to XtRemoveRawEventHandler.

# 9.2 Writing Routines That Use Specific Event Data

An event is a packet of information that the server sends to the client. Xlib takes this packet from the network and places it into an XEvent structure and places it on a queue until the client program requests it. Xt requests events from this queue and dispatches the event to the appropriate action routine or event handler for the widget in which the event occurred. The event itself is passed as an argument to the routine."

Actually, XEvent is a C-Language union of many event structures all the same size but with some different field names. The first member of the union, and of any of the individual event structures, is the event type. Table 9-2, later in this section, lists the event types and the matching event structure types.

<sup>\*</sup>We'll look at the low-level routines Xt provides for directly manipulating the event queue later in this chapter.

# **X Programming Manual**

**Donald Lewine** 

# **X Programming Manual:**

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vaguely remember a study that you read years ago about miscarriages being more frequent for data entry operators Or you might have run into a co worker wearing splints and talking ominously about Workers Comp insurance Or you might notice that when you use a computer too long you get stiff and your eyes get dry But who wants to worry about such things Surely the people wearing splints must be malingerers who don't want to work Surely the people who design keyboards and terminals must be working to change their products if they are unsafe Surely so long as you re a good worker and keep your mind on your job nothing bad will happen to you The bad news is You can be hurt by working at a computer The good news is that many of the same factors that pose a risk to you are within your own control You can take action on your own to promote your own health whether or not your terminal manufacturer keyboard designer medical provider safety trainer and boss are working diligently to protect you The Computer User's Survival Guide looks squarely at all the factors that affect your health on the job including positioning equipment work habits lighting stress radiation and general health Through this guide you will learn a continuum of neutral postures that you can at utilize at different work tasks how radiation drops off with distance and what electrical equipment is responsible for most exposure how modern office lighting is better suited to working on paper than on a screen and what you can do to prevent glare simple breathing techniques and stretches to keep your body well oxygenated and relaxed even when you sit all day how reading from a screen puts unique strains on your eyes and what kind of vision breaks will keep you most productive and rested what s going on under the skin when your hands and arms spend much of the day mousing and typing and how you can apply that knowledge to prevent overuse injuries The Computer User's Survival Guide is not a book of gloom and doom It is a guide to protecting yourself against health risks from your computer while boosting your effectiveness and your enjoyment of work **SIMD Programming Manual for Linux and Windows** Paul Cockshott, Kenneth Renfrew, 2013-03-09 A number of widely used contemporary processors have instruction set extensions for improved performance in multi media applications. The aim is to allow operations to proceed on multiple pixels each clock cycle Such instruction sets have been incorporated both in specialist DSPchips such as the Texas C62xx Texas Instruments 1998 and in general purpose CPU chips like the Intel IA32 Intel 2000 or the AMD K6 Advanced Micro Devices 1999 These instruction set extensions are typically based on the Single Instruction stream Multiple Data stream SIMD model in which a single instruction causes the same mathematical operation to be carried out on several operands or pairs of operands at the same time The level or parallelism supported ranges from two floating point operations at a time on the AMD K6 architecture to 16 byte operations at a time on the Intel P4 architecture Whereas processor architectures are moving towards greater levels of parallelism the most widely used programming languages such as C Java and Delphi are structured around a model of computation in which operations takeplace on a single value at a time This was appropriate when processors worked this way but has become an impediment to programmers seeking to make use of the performance offered by multi media instruction sets The introduction of SIMD instruction sets Peleg et al **POSIX Programmers** 

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