## XSetLineAttributes, XSetDashes - GC convenience routines

<pre>XSetLineAttributes(display, gc, line_width, line_style, cap_style, join_style) Display *display; GC gc; unsigned int line_width; int line_style; int cap_style; int join_style; XSetDashes(display, gc, dash_offset, dash_list, n) Display *display; GC gc;</pre>	
<pre>int dash_offset; char dash_list[];</pre>	
int <i>n</i> ;	$usi(\mathbf{j}),$
cap_style	Specifies the line-style and cap-style you want to set for the specified GC. You can pass <b>CapNotLast</b> , <b>CapButt</b> , <b>CapRound</b> , or <b>CapProjecting</b> .
dash_list	Specifies the dash-list for the dashed line-style you want to set for the specified GC.
dash_offset	Specifies the phase of the pattern for the dashed line-style you want to set for the specified GC.
display	Specifies the connection to the X server.
gc	Specifies the GC.
join_style	Specifies the line join-style you want to set for the specified GC. You can pass <b>Join-</b> <b>Miter</b> , <b>JoinRound</b> , or <b>JoinBevel</b> .
line_style	Specifies the line-style you want to set for the specified GC. You can pass <b>LineSolid</b> , <b>LineOnOffDash</b> , or <b>LineDoubleDash</b> .
line_width	Specifies the line-width you want to set for the specified GC.
n	Specifies the number of elements in dash_list.

The XSetLineAttributes function sets the line drawing components in the specified GC.

XSetLineAttributes can generate BadAlloc, BadGC, and BadValue errors.

The **XSetDashes** function sets the dash-offset and dash-list attributes for dashed line styles in the specified GC. There must be at least one element in the specified dash\_list, or a **BadValue** error results. The initial and alternating elements (second, fourth, and so on) of the dash\_list are the even dashes, and the others are the odd dashes. Each element specifies a dash length in pixels. All of the elements must be nonzero, or a **BadValue** error results. Specifying an odd-length list is equivalent to specifying the same list concatenated with itself to produce an even-length list.

The dash-offset defines the phase of the pattern, specifying how many pixels into the dash-list the pattern should actually begin in any single graphics request. Dashing is continuous through path elements combined with a join-style but is reset to the dash-offset between each sequence of joined lines.

The unit of measure for dashes is the same for the ordinary coordinate system. Ideally, a dash length is measured along the slope of the line, but implementations are only required to match this ideal for horizon-tal and vertical lines. Failing the ideal semantics, it is suggested that the length be measured along the major axis of the line. The major axis is defined as the x axis for lines drawn at an angle of between -45 and +45 degrees or between 135 and 225 degrees from the x axis. For all other lines, the major axis is the y axis.

XSetDashes can generate BadAlloc, BadGC, and BadValue errors.

BadAlloc The server failed to allocate the requested resource or server memory. BadGC A value for a GContext argument does not name a defined GContext. BadValue Some numeric value falls outside the range of values accepted by the request. Unless a specific range is specified for an argument, the full range defined by the argument's type is accepted. Any argument defined as a set of alternatives can generate this error.

XCreateGC(3X11), XQueryBestSize(3X11), XSetArcMode(3X11), XSetClipOrigin(3X11), XSetFillStyle(3X11), XSetFont(3X11), XSetState(3X11), XSetTile(3X11)

Xlib – C Language X Interface