NAME

cdk_histogram − curses histogram widget

SYNOPSIS

cc [*flag* ...] *file* ... **−lcdk** [*library* ...]

#include <cdk.h>

void activateCDKHistogram (
CDKHISTOGRAM ****histogram*,**
chtype *unused***);**

void destroyCDKHistogram (
CDKHISTOGRAM ****histogram*);**

void drawCDKHistogram (
CDKHISTOGRAM ****histogram*,**
boolean *box***);**

void eraseCDKHistogram (
CDKHISTOGRAM ****histogram*);**

boolean getCDKHistogramBox (
CDKHISTOGRAM ****histogram*);**

chtype getCDKHistogramFillerChar (
CDKHISTOGRAM ****histogram*);**

int getCDKHistogramHighValue (
CDKHISTOGRAM ****histogram*);**

int getCDKHistogramLowValue (
CDKHISTOGRAM ****histogram*);**

chtype getCDKHistogramStatsAttr (
CDKHISTOGRAM ****histogram*);**

int getCDKHistogramStatsPos (
CDKHISTOGRAM ****histogram*);**

int getCDKHistogramValue (
CDKHISTOGRAM ****histogram*);**

EHistogramDisplayType getCDKHistogramViewType (
CDKHISTOGRAM ****histogram*);**

void moveCDKHistogram (
CDKHISTOGRAM ****histogram*,**
int *xpos***,**
int *ypos***,**
boolean *relative***,**
boolean *refresh***);**

CDKHISTOGRAM *newCDKHistogram (
CDKSCREEN ****cdkscreen*,**
int *xpos***,**
int *ypos***,**
int *height***,**
int *width***,**
int *orient***,**
char ****title*,**
boolean *box***,**
boolean *shadow***);**

void positionCDKHistogram (
CDKHISTOGRAM ****histogram*);**

void setCDKHistogram (
CDKHISTOGRAM ***histogram,**
EHistogramDisplayType *viewType***,**
int *statsPos***,**
chtype *statsAttribute***,**
int *lowValue***,**
int *highValue***,**
int *currentValue***,**
chtype *fillerCharacter***,**
boolean *box***);**

void setCDKHistogramBackgroundAttrib (
CDKHISTOGRAM ***histogram,**
chtype *attribute***);**

void setCDKHistogramBackgroundColor (
CDKHISTOGRAM ***histogram,**
char * *color***);**

void setCDKHistogramBox (
CDKHISTOGRAM ***histogram,**
boolean *box***);**

void setCDKHistogramBoxAttribute (
CDKHISTOGRAM ***histogram,**
chtype *character***);**

void setCDKHistogramDisplayType (
CDKHISTOGRAM ***histogram,**
EHistogramDisplayType *viewtype***);**

void setCDKHistogramFillerChar (
CDKHISTOGRAM ***histogram,**
chtype *fillerCharacter***);**

void setCDKHistogramHorizontalChar (
CDKHISTOGRAM ***histogram,**
chtype *character***);**

void setCDKHistogramLLChar (
CDKHISTOGRAM ***histogram,**
chtype *character***);**

void setCDKHistogramLRChar (
CDKHISTOGRAM ***histogram,**
chtype *character***);**

void setCDKHistogramStatsAttr (
CDKHISTOGRAM ***histogram,**
chtype *statsAttribute***);**

void setCDKHistogramStatsPos (
CDKHISTOGRAM ***histogram,**
int *statsPosition***);**

void setCDKHistogramULChar (
CDKHISTOGRAM ***histogram,**
chtype *character***);**

void setCDKHistogramURChar (
CDKHISTOGRAM ***histogram,**
chtype *character***);**

void setCDKHistogramValue (
CDKHISTOGRAM ***histogram,**
int *lowValue***,**
int *highValue***,**

int *currentValue***);**

void setCDKHistogramVerticalChar (
CDKHISTOGRAM ****histogram*,**
chtype *character***);**

void setCDKHistogramViewType (
CDKHISTOGRAM ****histogram*,**
EHistogramDisplayType *viewType***);**

DESCRIPTION

The Cdk histogram widget creates a histogram widget. This widget can draw a vertical or horizontal histogram. The functions create or manipulate the Cdk histogram box widget.

AVAILABLE FUNCTIONS

activateCDKHistogram
obsolete entrypoint which calls **drawCDKHistogram**.

destroyCDKHistogram
removes the widget from the screen and frees memory the object used.

drawCDKHistogram
draws the histogram widget on the screen. If the **box** parameter is true, the widget is drawn with a box.

eraseCDKHistogram
removes the widget from the screen. This does *NOT* destroy the widget.

getCDKHistogramBox
returns true if the widget will be drawn with a box around it.

getCDKHistogramFillerChar
returns the character being used to draw the histogram bar.

getCDKHistogramHighValue
returns the high value of the histogram.

getCDKHistogramLowValue
returns the low value of the histogram.

getCDKHistogramStatsAttr
returns the attribute of the statistics of the histogram.

getCDKHistogramStatsPos
returns where the histogram will draw the statistics.

getCDKHistogramValue
returns the current value of the histogram.

getCDKHistogramViewType
returns the view type of the histogram widget.

moveCDKHistogram
moves the given widget to the given position. The parameters **xpos** and **ypos** are the new position of the widget. The parameter **xpos** may be an integer or one of the pre-defined values *TOP*, *BOTTOM*, and *CENTER*. The parameter **ypos** can be an integer or one of the pre-defined values *LEFT*, *RIGHT*, and *CENTER*. The parameter **relative** states whether the **xpos**/**ypos** pair is a relative move or an absolute move. For example if **xpos** = 1 and **ypos** = 2 and **relative** = **TRUE**, then the widget would move one row down and two columns right. If the value of **relative** was **FALSE** then the widget would move to the position (1,2). Do not use the values *TOP*, *BOTTOM*, *LEFT*, *RIGHT*, or *CENTER* when **relative** = *TRUE*. (weird things may happen). The final parameter **refresh** is a boolean value which states whether the widget will get refreshed after the move.

newCDKHistogram
creates a histogram widget and returns a pointer to it. Parameters:

screen
is the screen you wish this widget to be placed in.

xpos controls the placement of the object along the horizontal axis. It may be an integer or one of the pre-defined values *LEFT*, *RIGHT*, and *CENTER*.

ypos controls the placement of the object along the vertical axis. It may be an integer or one of the pre-defined values *TOP*, *BOTTOM*, and *CENTER*.

title is the string which will be displayed at the top of the widget. The title can be more than one line; just provide a carriage return character at the line break.

height and

width
control the height and width of the widget. If you provide a value of zero for either of the height or the width, the widget will be created with the full width and height of the screen. If you provide a negative value, the widget will be created the full height or width minus the value provided.

orient
specifies the orientation of the histogram. It is one of these pre-defined values: *VERTICAL* and *HORIZONTAL*.

label
is the string to use as the label of the histogram.

box is true if the widget should be drawn with a box around it.

shadow
turns the shadow on or off around this widget.

If the widget could not be created then a *NULL* pointer is returned.

positionCDKHistogram
allows the user to move the widget around the screen via the cursor/keypad keys. See **cdk_position (3)** for key bindings.

setCDKHistogram
lets the programmer set the specific values of the histogram widget. The parameter **viewType** specifies the type of histogram to draw. The following table lists the valid values and the results.

Display_Type	Result
vNONE	Displays no information about the current values.
vPERCENT	Displays the current value as a percentage.
vFRACTION	Displays the current value as a fraction.
vREAL	Displays the current value.

The **statsPosition** parameter states where the statistics will be displayed. It accepts *TOP*, *BOTTOM*, and *CENTER*.

The parameter **statsAttribute** sets the attributes of the statistics.

The parameters **lowValue**, **highValue**, and **currentValue** are the low, high, and current values respectively.

The **filler** character is the character to use in the unused space in the histogram.

If the **box** parameter is true, the widget is drawn with a box.

setCDKHistogramBackgroundAttrib
the background color attribute the widget. The parameter **attribute** is a curses attribute, e.g., A_BOLD.

setCDKHistogramBackgroundColor
the background color of the widget. The parameter **color** is in the format of the Cdk format strings. See **cdk_display (3)**.

setCDKHistogramBox
sets whether the widget will be drawn with a box around it.

setCDKHistogramBoxAttribute
sets the attribute of the box.

setCDKHistogramDisplayType
sets the display type (see **getCDKHistogramViewType**).

setCDKHistogramFillerChar
sets the character to use when drawing the histogram bar.

setCDKHistogramHorizontalChar
sets the horizontal drawing character for the box to the given character.

setCDKHistogramLLChar
sets the lower left hand corner of the widget's box to the given character.

setCDKHistogramLRChar
sets the lower right hand corner of the widget's box to the given character.

setCDKHistogramStatsAttr
sets the attribute to use when drawing the histogram statistics.

setCDKHistogramStatsPos
sets where the statistics will be drawn on the widget. See the **setCDKHistogram** description for more details.

setCDKHistogramULChar
sets the upper left hand corner of the widget's box to the given character.

setCDKHistogramURChar
sets the upper right hand corner of the widget's box to the given character.

setCDKHistogramValue
sets the low, high, and current value of the histogram.

setCDKHistogramVerticalChar
sets the vertical drawing character for the box to the given character.

setCDKHistogramViewType
sets the view type of the histogram. Look at the **setCDKHistogram** description for more details.

SEE ALSO

cdk(3), **cdk_binding**(3), **cdk_display**(3), **cdk_position**(3), **cdk_screen**(3)