cdk_graph(3)

NAME cdk_graph - curses graph widget **SYNOPSIS** cc [flag ...] file ... –lcdk [library ...] #include <cdk.h> void activateCDKGraph (CDKGRAPH *graph, chtype *unused); void destroyCDKGraph (**CDKGRAPH** *graph); void drawCDKGraph (CDKGRAPH *graph, **boolean** *box*); void eraseCDKGraph (**CDKGRAPH** *graph); boolean getCDKGraphBox (**CDKGRAPH** *graph); chtype getCDKGraphCharacter (**CDKGRAPH** *graph, int index); chtype *getCDKGraphCharacters (**CDKGRAPH** *graph); EGraphDisplayType getCDKGraphDisplayType (**CDKGRAPH** *graph); int getCDKGraphValue (CDKGRAPH *graph, int index); int *getCDKGraphValues (**CDKGRAPH** *graph, int *size); void moveCDKGraph (CDKGRAPH *graph, int xpos, int ypos, boolean relative, boolean refresh); CDKGRAPH *newCDKGraph (CDKSCREEN *cdkscreen, int xpos, int ypos, int height, int width, const char *title, const char **xtitle*, const char * ytitle); void positionCDKGraph (CDKGRAPH *graph); int setCDKGraph (CDKGRAPH *graph, int *values, int valueCount,

const char *graphCharacters,



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boolean startAtZero, EGraphDisplayType displayType); void setCDKGraphBackgroundAttrib (CDKGRAPH *graph, chtype attribute); void setCDKGraphBackgroundColor (**CDKGRAPH** *graph, const char * color); void setCDKGraphBox (**CDKGRAPH** *graph, **boolean** *box*); void setCDKGraphBoxAttribute (**CDKGRAPH** *graph, chtype character); int setCDKGraphCharacter (**CDKGRAPH** *graph, int index, const char *graphCharacter); int setCDKGraphCharacters (CDKGRAPH *graph, const char *graphCharacters); void setCDKGraphDisplayType (**CDKGRAPH** *graph, EGraphDisplayType type); void setCDKGraphHorizontalChar (**CDKGRAPH** **graph*, chtype character); void setCDKGraphLLChar (CDKGRAPH *graph, chtype character); void setCDKGraphLRChar (**CDKGRAPH** *graph, chtype character); void setCDKGraphULChar (**CDKGRAPH** *graph, chtype character); void setCDKGraphURChar (**CDKGRAPH** *graph, chtype character); int setCDKGraphValue (**CDKGRAPH** *graph, int index, int value, **boolean** *startAtZero*); int setCDKGraphValues (CDKGRAPH *graph, int *values, int valueCount, **boolean** *startAtZero*); void setCDKGraphVerticalChar (

CDKGRAPH **graph*, **chtype** *character*);



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DESCRIPTION

The Cdk graph widget creates a graph in either X/Y plot or line mode. The following functions create or manipulate the Cdk graph box widget.

AVAILABLE FUNCTIONS

activateCDKGraph

this is an obsolete function that calls drawCDKGraph.

destroyCDKGraph

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

drawCDKGraph

draws the graph widget on the screen. The **box** option tells whether to draw the widget with a box.

eraseCDKGraph

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

getCDKGraphBox

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

getCDKGraphCharacter

returns the character in the graph at the given index.

getCDKGraphCharacters

returns all the characters currently in the graph widget.

getCDKGraphDisplayType

returns the current display type of the widget.

getCDKGraphValue

returns the value in the graph at the given index.

getCDKGraphValues

returns all the values currently in the graph widget.

moveCDKGraph

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** may 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.

newCDKGraph

creates a pointer to a graph widget. 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*.

height and

width

control the height and width of the widget. If you provide a 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



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provide a negative value, the widget will be created the full height or width minus the value provided.

title,

xtitle and

ytitle

are the graph title, the X axis title, and the Y axis title respectively. The graph title may be more than one line by providing a carriage return character at the line break.

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

positionCDKGraph

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

setCDKGraph

lets the programmer set the specific values of the graph widget.

- The parameter **values** is an integer array of the values to display in the widget; **valueCount** is the number of values in the array.
- The parameter graphCharacters is an array of the characters to use for each graph point.
- The parameter **startAtZero** states whether you want the graph to start at zero or the lowest values of the X and Y axis'.
- The parameter **displayType** may be *vPLOT*, to make the graph draw the values as a plot graph, or *vLINE* to draw the values as a line graph.

setCDKGraphBackgroundAttrib

sets the background attribute of the widget. The parameter **attribute** is a curses attribute, e.g., A_BOLD.

set CDKGraphBackgroundColor

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

setCDKGraphBox

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

setCDKGraphBoxAttribute

function sets the attribute of the box.

setCDKGraphCharacter

lets the programmer set a specific character of the graph widget. The parameter **character** is the new character, while **index** is the index where the new character will be stored.

setCDKGraphCharacters

lets the programmer set the specific characters of the graph widget. The parameter **characters** is a char pointer array of the characters to display in the widget.

setCDKGraphDisplayType

allows the programmer tochange the way the graph draws itself. The parameter **displayType** may be vPLOT, to make the graph draw the values as a plot graph, or vLINE to draw the values as a line graph.

setCDKGraphHorizontalChar

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

setCDKGraphLLChar

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

setCDKGraphLRChar

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

setCDKGraphULChar

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



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setCDKGraphURChar

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

setCDKGraphValue

lets the programmer set a specific value of the graph widget.

- The parameter **value** is the new value, while **index** is the index where the new value will be stored.
- The parameter **startAtZero** states whether you want the graph to start at zero or the lowest values of the X and Y axis.

setCDKGraphValues

lets the programmer set the specific values of the graph widget.

- The parameter **values** is an integer array of the values to display in the widget.
- **valueCount** is the number of values in the array.
- The parameter **startAtZero** states whether you want the graph to start at zero or the lowest values of the X and Y axis'.

setCDKGraphVerticalChar

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

SEE ALSO

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

