NAME

plot, arc, box, circle, closepl, closevt, cont, erase, label, line, linmod, move, openpl, openvt, point, space – graphics interface

SYNOPSIS

void arc(short *x0*, **short** *y0*, **short** *x1* , **short** *y1*, **short** *x2*, **short** *y2* **);**

void box(short *x0*, **short** *y0*, **short** *x1* , **short** *y1***);**

void circle(short *x*, **short** *y* , **short** *r***);**

void closepl( );

void closevt( );

void cont(short *x*, **short** *y***);**

void erase( );

void label(char **s***);**

void line(short *x0*, **short** *y0*, **short** *x1* , **short** *y1***);**

void linmod(char **s***);**

void move(short *x*, **short** *y***);**

void openpl( );

void openvt( );

void point(short *x*, **short** *y***);**

void space(short *x0*, **short** *y0*, **short** *x1* , **short** *y1***);**

MT-LEVEL

Safe

DESCRIPTION

These routines generate graphics output for a set of output devices. The format of the output is dependent upon which link editor option is used when the program is compiled and linked (see **Link Editor**).

The term "current point" refers to the current setting for the *x* and *y* coordinates.

arc() specifies a circular arc. The coordinates **(***x0*, *y0)* specify the center of the arc. The coordinates **(***x1*, *y1)* specify the starting point of the arc. The coordinates **(***x2*, *y2)* specify the end point of the circular arc.

box() specifies a rectangle with coordinates **(***x0*, *y0***)**, **(***x0*, *y1***)**, **(***x1*, *y0***)**, and **(***x1*, *y1***)**. The current point is set to **(***x1*, *y1***)**.

circle() specifies a circle with a center at the coordinates **(***x*, *y***)** and a radius of *r*.

closevt() and **closepl()** flush the output.

cont() specifies a line beginning at the current point and ending at the coordinates **(***x*, *y***)**. The current point is set to **(***x*, *y***)**.

erase() starts another frame of output.

label() places the null terminated string *s* so that the first character falls on the current point. The string is then terminated by a NEWLINE character.

line() draws a line starting at the coordinates **(***x0***,** *y0***)** and ending at the coordinates **(***x1***,** *y1***)**. The current point is set to **(***x1***,** *y1***)**.

linmod() specifies the style for drawing future lines. *s* may contain one of the following: **dotted**, **solid**, **longdashed**, **shortdashed**, or **dotdashed**.

move() sets the current point to the coordinates **(***x***,** *y***)**.

openpl() or **openvt()** must be called to open the device before any other **plot** routines are called.

point() plots the point given by the coordinates **(***x***,** *y***)**. The current point is set to **(***x***,** *y***)**.

space() specifies the size of the plotting area. The plot will be reduced or enlarged as necessary to fit the area specified. The coordinates **(***x0***,** *y0***)** specify the lower left hand corner of the plotting area. The coordinates **(***x1***,** *y1***)** specify the upper right hand corner of the plotting area.

Link Editor

Various flavors of these routines exist for different output devices. They are obtained by using the following **ld**(1) options:

-lplot	device-independent graphics stream on standard output in the format described in **plot**(4B)
-l300	GSI 300 terminal
-l300s	GSI 300S terminal
-l4014	Tektronix 4014 terminal
-l450	GSI 450 terminal
-lvt0	

FILES

/usr/lib/libplot.a
/usr/lib/lib300.a
/usr/lib/lib300s.a
/usr/lib/lib4014.a
/usr/lib/lib450.a
/usr/lib/libvt0.a

SEE ALSO

graph(1), **ld**(1), **plot**(4B)