DRAW

PURPOSE

Draws a line segment.

DESCRIPTION

The 2 pairs of coordinates define the (x,y) values for the tail and the head (respectively) of the line segment.

SYNTAX 1

DRAW <x1> <y1> <x2> <y2>
where <x1> is a number or parameter in the range 0 to 100 that specifies the x coordinate for one end of the line segment;
<y1> is a number or parameter in the range 0 to 100 that specifies the y coordinate for one end of the line segment;
<x2> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the other end of the line segment;
and <y2> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the other end of the line segment.

This syntax draws from (x1,y1) to (x2,y2).

SYNTAX 2

DRAW <x1> <y1>
where <x1> is a number or parameter in the range 0 to 100 that specifies the x coordinate for one end of the line segment;
<y1> is a number or parameter in the range 0 to 100 that specifies the y coordinate for one end of the line segment.

This syntax draws from the current point (typically preceded by a MOVE command) to (x1,y1).

SYNTAX 3

DRAW <x1> <y1> <x2> <y2> ... <xn> <yn>
where <x1> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the first point of the line segment;
<y1> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the first point of the line segment;
<x2> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the second point of the line segment;
<y2> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the second point of the line segment;
<xn> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the nth point of the line segment;
and <yn> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the nth point of the line segment.

This syntax draws from (x1,y1) to (x2,y2) to (x3,y3) and so on for each coordinate pair listed.

EXAMPLES

DRAW 30 30 60 60
DRAW 20 20 80 20
DRAW 20 70 70 30 X1 Y1
DRAW 80 70

NOTE 1

The line style (i.e., solid, dash), color, and thickness of the line segment are controlled by the first entry of the LINE, LINE COLOR, and LINE THICKNESS commands. In particular, for SYNTAX 3 (where multiple lines are drawn) each of the line segments is drawn with the same attributes.

NOTE 2

Line segments defined by the SEGMENT COORDINATES command are drawn whenever a subsequent plot is generated. Line segments defined by the DRAW command are generated immediately.

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

MOVE	=	Moves to a point.
ARROW	=	Draws an arrow.
TRIANGLE	=	Draws a triangle.

LINES	=	Sets the line type for figures and plot lines.
LINE THICKNESSES	=	Sets the line thickness for figures and plot lines.
LINE COLOR	=	Sets the line colors for figures and plot lines.
CROSS-HAIR	=	Activates and reads the cross-hair.
TEXT	=	Writes a text string.

APPLICATIONS

Presentation graphics

IMPLEMENTATION DATE

Pre-1987

PROGRAM

```
DRAW 10 10 20 20
DRAW 60 20 80 30
THICKNESS 0.7
DRAW 10 40 20 40
THICKNESS 0.3
LINE DASH
DRAW 10 60 20 60
LINE SOLID
LINE COLOR G50
DRAW 10 90 20 90
LINE COLOR BLACK
THICKNESS 0.2
DRAW 60 70 70 85 78 23 91 98
```