ARROW

PURPOSE
Draws an arrow.

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

SYNTAX
ARROW <x1> <y1> <x2> <y2>

where <x1> is a number or parameter in the decimal range 0 to 100 that specifies the x coordinate for the tail of the arrow;

<y1> is a number or parameter in the decimal range 0 to 100 that specifies the y coordinate for the tail of the arrow;

<x2> is a number or parameter in the decimal range 0 to 100 that specifies the x coordinate for the head of the arrow;

and <y2> is a number or parameter in the decimal range 0 to 100 that specifies the y coordinate for the head of the arrow.

EXAMPLES
ARROW 50 50 60 50
ARROW 50 50 60 60
ARROW 20 70 50 50
ARROW X1 Y1 X2 Y2
ARROW X1 70 X2 50

NOTE 1
Arrows defined by the ARROW COORDINATES command are drawn whenever a plot is generated. Arrows defined by the ARROW command are generated immediately.

NOTE 2
The size of the arrow head is set by the HEIGHT, WIDTH, or HW commands. The size of the base of the arrow head is controlled by the height parameter while the distance from the base to the tip of the arrow is controlled by the width parameter. These commands are documented in the Plot Control Chapter.

NOTE 3
By default, the arrow head is not filled. Enter the command REGION FILL ON to generate a solid filled arrow head.

NOTE 4
The ARROW PATTERN command sets the line style (i.e., solid or some dash pattern). The ARROW COLOR command sets the color for the arrow. The ARROW THICKNESS command sets the line thickness for the arrow. Most of the diagrammatic graphics commands use the LINE, LINE COLOR, and LINE THICKNESS commands for this purpose. These commands are ignored for arrows. All of these commands are documented in the Plot Control chapter.

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS

ARROW PATTERN	=	Sets the line type for arrows.
ARROW THICKNESS	=	Sets the line thickness for arrows.
ARROW COLOR	=	Sets the line color for arrows.
ARROW COORDINATE	=	Generates arrows on subsequent plots.
REGION FILL	=	Sets region fill switch for diagrammatic graphics.
HEIGHT	=	Sets height (= length of base) for the arrow head.
WIDTH	=	Sets width (= distance from base to tip of arrow) for the arrow head.
HW	=	Sets height and width for the arrow head.
BOX	=	Draws a box.
DRAW	=	Draws a line.
MOVE	=	Moves to a point.

CROSS-HAIR   =   Activates and reads the cross-hair.
TEXT   =   Writes a text string.

APPLICATIONS
Presentation graphics

IMPLEMENTATION DATE
Pre-1987

PROGRAM
```
ERASE
HW 1.0 0.7
REGION FILL ON
ARROW PATTERN SOLID
ARROW THICKNESS 0.2
ARROW COLOR BLACK
LET Y2 = DATA 60 55 50 45 40 45 50 55
LET X2 = DATA 50 55 60 55 50 45 40 45
LET X1 = 50
LET Y1 = 50
LET N = SIZE Y2
LOOP FOR K = 1 1 N
        LET XTEMP = X2(K)
        LET YTEMP = Y2(K)
        ARROW X1 Y1 XTEMP YTEMP
END OF LOOP
```