3DFRAME

PURPOSE
Specifies the type of frame to draw for a 3d plot.

DESCRIPTION
DATAPLOT offers the following choices for drawing the frame on a 3d plot:

- OFF - no 3d frame is drawn;
- 3PRONG - the 3 axes lines are drawn (from their minimums to their maximums) from a common origin;
- 3PLANE - the xz and yz planes are drawn;
- BOX - a cube is drawn (from the minimum to the maximum in each direction);
- ZIGZAG - similar to 3PRONG, but the axes are not drawn from a common origin;
- ? - print the current setting and the available settings.

SYNTAX
3DFRAME <style>
where <style> is OFF, 3PRONG, 3PLANE, BOX, ZIGZAG, or ? as described above.

EXAMPLES
3DFRAME OFF
3DFRAME 3PLANE
3DFRAME 3PRONG
3DFRAME ZIGZAG

NOTE
At this time, the axes are not drawn with tic marks or tic mark labels.

DEFAULT
No 3d frame is drawn.

SYNONYMS
3DFRAME NONE is a synonym for 3DFRAME OFF and 3DFRAME CUBE is a synonym for 3DFRAME BOX.

RELATED COMMANDS
- EYE COORDINATES = Specifies the eye coordinates for a 3d plot.
- 3D- PLOT = Generates a 3-d data or function plot.
- ROTATE EYE = Automatically rotate the eye coordinates.

APPLICATIONS
3-d plotting

IMPLEMENTATION DATE
93/10
PROGRAM

LET FUNCTION E = -0.5*((X**2)+(Y**2))
LET FUNCTION F = (1/(2*PI))*EXP(E)
MULTIPLYOT 2 2; MULTIPLYOT CORNER COORDINATES 0 0 100 100
TITLE SIZE 5

TITLE 3D FRAME 3PRONG
3DFRAME 3PRONG
3D-PLOT F FOR X = -2 .2 2 FOR Y = -2 .1 2

TITLE 3D FRAME 3PLANE
3DFRAME 3PLANE
3D-PLOT F FOR X = -2 .2 2 FOR Y = -2 .1 2

TITLE 3D FRAME BOX
3DFRAME BOX
3D-PLOT F FOR X = -2 .2 2 FOR Y = -2 .1 2

TITLE 3D FRAME ZIGZAG
3DFRAME ZIGZAG
3D-PLOT F FOR X = -2 .2 2 FOR Y = -2 .1 2
END OF MULTIPLYOT