

## PRE-SORT

### PURPOSE

Specifies whether or not data to be plotted is pre-sorted by the horizontal axis variable.

### DESCRIPTION

By default, DATAPLOT pre-sorts the data before a plot according to the horizontal axis variable so that connected lines will look right. However, there are situations (e.g., drawing a map, plotting a trajectory) where it is necessary to plot the data in the order that they reside in the variables. The PRE-SORT command is used to specify this.

### SYNTAX

PRE-SORT <ON or OFF>

where ON specifies that the data are pre-sorted while OFF specifies that they are not.

### EXAMPLES

PRE-SORT ON

PRE-SORT OFF

PRE-SORT

### NOTE

The PRE-SORT command with no arguments reverts the setting to default.

### DEFAULT

The default is for plots to pre-sort the data.

### SYNONYMS

None

### RELATED COMMANDS

PLOT	=	Generates a data or function plot.
3D-PLOT	=	Generates a 3-dimensional data or function plot.

### APPLICATIONS

Polar plots, maps, plotting order dependent data

### IMPLEMENTATION DATE

Pre-1987

## PROGRAM

```
PRE-SORT OFF
FRAME OFF
DEGREES
LET THETA = SEQUENCE 0 10 1000
LET R = 2*THETA
LET Y = R*SIN(THETA)
LET X = R*COS(THETA)
TITLE A POLAR COORDINATE FUNCTION
TITLE SIZE 5
PLOT Y X
```

