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
<table>
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<th>Command</th>
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<tr>
<td>PLOT</td>
<td>Generates a data or function plot.</td>
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<td>3D-PLOT</td>
<td>Generates a 3-dimensional data or function plot.</td>
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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