BAR P A TTERN

PURPOSE
Specifies the type of pattern used to fill bars on subsequent plots.

DESCRIPTION
See the documentation for the BAR command for a description of the various types of bar charts that DATAPLOT can generate.

The following bar fill patterns are available (in practice, the first 7 are heavily used while the last 5 are rarely used):

- BLANK - no fill
- SOLID - solid fill
- H ORI - horizontal lines
- VERT - vertical lines
- D1 - up diagonals
- D2 - down diagonals
- D1D2 - both up and down diagonals
- VED1 - both vertical lines and up diagonals
- VED2 - both vertical lines and down diagonals
- HOD1 - both horizontal lines and up diagonals
- HOD2 - both vertical lines and down diagonals
- VEDD - both horizontal and vertical lines, and both up and down diagonals

Bar patterns are specified by trace. All bars belonging to the same trace will have the same bar pattern.

SYNTAX
BAR P A TTERN <pattern> <pattern> <pattern> etc.
where <pattern> is a string that specifies the desired pattern. Up to 100 fill patterns can be specified.

EXAMPLES
BAR P A TTERN SOLID VERTICAL HORIZONTAL BLANK
BAR P A TTERN D1 D2 D1D2 HOD1 VED2 VEDD
BAR P A TTERN D1 ALL
BAR P A TTERN

NOTE 1
The BAR FILL command must be used in order for the bars to be filled with a pattern. If the bar fill switch is off (the default), this command is ignored.

NOTE 2
DATAPLOT can generate either solid fills or hatch pattern fills. The BAR FILL ON command with no BAR P A TTERN specified generates solid filled bars. Specifying the bar pattern to be SOLID also generates solid filled bars.

NOTE 3
The BAR P A TTERN command with no arguments sets the bar pattern type to default for all traces. The BAR P A TTERN command with the word ALL before or after the specified pattern type assigns that bar pattern type to all bars; thus BAR P A TTERN D1 ALL or BAR P A TTERN ALL D1 fills all bars with pattern D1.

DEFAULT
All bar patterns are blank.

SYNONYMS
None

RELATED COMMANDS
- PLOT = Generates a data or function plot,
- BAR = Sets the on/off switches for bars on plots
- BAR BASE = Sets the base locations for plot bars.
- BAR FILL = Sets the on/off switches for plot bar fills.
- BAR DIMENSION = Sets the bar dimensions to 2d or 3d.
BAR DIRECTION = Sets the bar directions to horizontal or vertical.
BAR PATTERN COLOR = Sets the colors for bar fill patterns.
BAR PATTERN LINE = Sets the line types for bar fill patterns.
BAR PATTERN SPACING = Sets the line spacings for bar fill patterns.
BAR PATTERN THICKNESS = Sets the line thicknesses for bar fill patterns.
BAR WIDTH = Sets the widths for plot bars.

APPLICATIONS
Presentation Graphics

IMPLEMENTATION DATE
Pre-1987

PROGRAM
LET CARTER = DATA 66 30 11 43 44 41 35 82 54 36
LET REAGAN = DATA 26 54 84 47 51 51 52 14 36 55
LET X = DATA 1 2 3 5 6 7 8 10 11 12; LET X1 = X - 0.2; LET X2 = X + 0.2

HORIZONTAL SWITCH ON
YLIMITS 1 12; YTIC OFFSET 1 1; MINOR YTIC MARK NUMBER 0
YTIC LABEL CONTENT DEMOCRATS INDEPENDENTS REPUBLICANS SP() EAST ...
SOUTH MIDWEST WEST SP() BLACKS HISPANICS WHITES SP()
X1LABEL PERCENT; XLIMTS 0 100
MAJOR XTIC MARK NUMBER 11; MINOR XTIC MARK NUMBER 1
LINE BLANK ALL; BAR ON ON
BAR FILL ON ALL; BAR WIDTH 0.2 ALL
BAR PATTERN D1 D2
TITLE DEMONSTRATE BAR PATTERN; TITLE SIZE 5
PLOT CARTER X1 AND
PLOT REAGAN X2

DEMONSTRATE BAR PATTERN

WHITE

HISPANICS

BLACKS

WEST

MIDWEST

SOUTH

EAST

REPUBLICANS

INDEPENDENTS

DEMOCRATS

PERCENT