

## DEX WIDTH

### PURPOSE

Specifies the width of the subplot area on subsequent DEX SCATTER PLOT commands.

### DESCRIPTION

The DEX SCATTER PLOT command generates a subplot area for each factor variable along the horizontal axis. The DEX WIDTH specifies the width of these subplots along the X axis (factors are plotted at integer values along the horizontal axis starting with 1).

### SYNTAX

DEX WIDTH <width>

where <width> is a number or parameter that specifies the desired width. It should have a value between 0 and 1 (greater than 1 causes the subplots to overlap).

### EXAMPLES

DEX WIDTH 0.4

DEX WIDTH 0.5

DEX WIDTH AWIDTH

### DEFAULT

The default width is 0.4.

### SYNONYMS

None

### RELATED COMMANDS

LINES	=	Sets the type for plot lines.
CHARACTER	=	Sets the type for plot characters
PLOT	=	Generates a data or function plot.
DEX SCATTER PLOT	=	Generates a dex scatter plot.
DEX SIGN PLOT	=	Generates a dex sign plot.
DEX ... PLOT	=	Generates a dex plot for a statistic.
DEX ... PARETO PLOT	=	Generates a Pareto dex plot for a statistic.
DEX ... YOUNDEN PLOT	=	Generates a Youden dex plot for a statistic.
DEX ... EFFECTS PLOT	=	Generates a dex effects plot for a statistic.
DEX ... PARETO EFFECTS PLOT	=	Generates a Pareto effects dex plot for a statistic.
DEX ... ABSOLUTE EFFECTS PLOT	=	Generates an absolute effects dex plot for a statistic.
DEX ... PARE ABSO EFFECTS PLOT	=	Generates a Pareto absolute effects dex plot for a statistic.

### REFERENCE

"Statistics for Experimenters," Box, Hunter, and Hunter, Wiley and Sons, 1978.

### APPLICATIONS

Design of Experiments

### IMPLEMENTATION DATE

89/12

## PROGRAM

```

. FIT OF CHEMICAL YIELD AS A FUNCTION OF TIME AND TEMPERATURE
. BOX, HUNTER & HUNTER (1978), STATISTIC FOR EXPERIMENTERS
. WILEY, PAGE 519 (FILE BOXYIEL2.DAT IN REFERENCE DIRECTORY)
LET Y = DATA 78.8 84.5 91.2 77.4 89.7 86.8 83.3 81.2 81.2 79.5 87.0 86.0
LET X1 = DATA -1 +1 -1 +1 0 0 -1.414 +1.414 0 0 0 0
LET X2 = DATA -1 -1 +1 +1 0 0 0 0 -1.414 +1.414 0 0
CHARACTERS X BLANK
LINE BLANK SOLID
YLIMITS 75 90
Y1LABEL CHEMICAL YIELD
YTIC OFFSET 0 2
XLIMITS 1 2
XTIC OFFSET 0.5 0.5
MAJOR XTIC MARK NUMBER 2
MINOR XTIC MARK NUMBER 0
XTIC MARK LABEL FORMAT ALPHA
XTIC MARK LABEL CONTENT TIME TEMPERATURE
X1LABEL FACTORS
.
MULTIPLY 2 2; MULTIPLY CORNER COORDINATES 0 0 100 100
TITLE DEFAULT WIDTH
DEX SCATTER PLOT Y X1 TO X2
DEX WIDTH 0.8; TITLE DEX WIDTH 0.8
DEX SCATTER PLOT Y X1 TO X2
DEX WIDTH 0.2; TITLE DEX WIDTH 0.2
DEX SCATTER PLOT Y X1 TO X2
DEX WIDTH 1.0; TITLE DEX WIDTH 1.0
DEX SCATTER PLOT Y X1 TO X2
END OF MULTIPLY

```

