

INFINITY

PURPOSE

An internal DATAPLOT parameter which has the value of the largest floating point number that your computer can hold.

DESCRIPTION

This value is sometimes referred to as “machine infinity.” This parameter is automatically provided at sign-on. The INFINITY parameter is primarily used in connection with one form of the SUBSET and EXCEPT qualifications. These can be appended to any of the graphics or analysis category commands and certain support category commands. The SUBSET/EXCEPT qualification at the end of these commands specifies the subset of observations in the variable to be operated on. For example, PRINT X prints all elements of the variable X while PRINT X SUBSET X 1000 TO INFINITY prints only those values of the variable X which are equal to or greater than 1000. The use of the INFINITY parameter is relatively light due to the existence of an alternate form of the SUBSET/EXCEPT qualification. For example, PRINT X SUBSET X 1000 TO INFINITY can be written more succinctly as PRINT X SUBSET X >= 1000.

It can also be convenient as an initialization value or to denote missing values.

SYNTAX

<Command> <SUBSET or EXCEPT> <x> <x1> TO INFINITY

where <Command> is any graphics or analysis command or certain support commands;

<x> is a variable for which the analyst wishes to define the subset;

and <x1> is a number or parameter that is the desired lower bound of the subset.

Infinity will be the upper bound of the subset according to this restricted form (there exists much more general forms) of the SUBSET/EXCEPT qualification.

EXAMPLES

```
PLOT Y1 Y2 Y3 VS X SUBSET X 500 TO INFINITY
FIT (A+B*X)/(C+D*X) SUBSET X 101 TO INFINITY
SMOOTH Y EXCEPT X 201 TO INFINITY
PRINT Y X TEMP EXCEPT TEMP 100 TO INFINITY
LET Y = INFINITY FOR I = 1 1 N
```

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

PI	=	Built-in parameter with value 3.1415926.
SUBSET	=	Allows specification of a subset.
EXCEPT	=	Allows exclusion-specification of a subset.
FOR	=	Allows row-specification of a subset.

APPLICATIONS

Data subsetting

IMPLEMENTATION DATE

Pre-1987