SUBSTITUTE CHARACTER

PURPOSE
Specify the character to use as the substitution character.

DESCRIPTION
The substitute character signifies that the parameter following it should be replaced with the value of that parameter.

SYNTAX
SUBSTITUTE CHARACTER <char>

where <char> is the character to use as the substitute character.

EXAMPLES
SUBSTITUTE CHARACTER @
SUBSTITUTE CHARACTER ^

NOTE 1
Generally, it is not necessary to change the substitute character. The one exception is if you want to define strings that contain the default substitute character.

NOTE 2
The substitute character can be used effectively with the LOOP command. For example, assume that variables Y1 thru YN and strings S1 and SN have been previously defined:

LOOP FOR K = 1 1 N
        TITLE Y^K VS X
        LEGEND 1 ^S^K
        PLOT Y^K VS X
END OF LOOP

Note the distinction between Y^K in the PLOT command and ^S^K in the LEGEND command. For example, when K = 1 and after the substitution, the plot command line executed is PLOT Y1 VS X where Y1 is the name of a previously created variable (that is, we are NOT substituting the value of Y1). For the LEGEND command, the command line is LEGEND 1 <text of the string in S1>. (That is, S1 is a previously created string and we are substituting its value into the command line.

NOTE 3
The following characters are used to determine the end of the parameter name:

	-	a space
(	-	a left parenthesis
)	-	a right parenthesis
"	-	a quote character
&	-	an ampersand character
.	-	a period
^	-	another substitute character
,	-	a comma
:	-	a colon
;	-	a semi-colon
[	-	a left bracket;
]	-	a right bracket
+	-	a plus
-	-	a minus
*	-	an asterisk
/	-	a forward slash

NOTE 4
The substitution is performed before the command is interpreted.

NOTE 5
If the parameter is undefined, it is replaced with a space character in the command line.

NOTE 6

The VALU() command also performs parameter substitution. However, it only works for a few commands (specifically LEGEND, TITLE, LABEL, and TEXT) while the substitute character works on any command.

DEFAULT

The default substitute character is ^ .

SYNONYMS

REPLACEMENT CHARACTER

RELATED COMMANDS

LOOP	=	Perform a loop.
VALU()	=	Perform parameter substitution within certain commands.
TERMINATOR CHARACTER	=	Define the character that terminates a command.
CONTINUE CHARACTER	=	Define the character that specifies that a command is continued onto the next line.

APPLICATIONS

Macros

IMPLEMENTATION DATE

89/6

PROGRAM

```
TITLE
LET THETA = SEQUENCE 0 1 380
LET X = SIN(THETA)
MULTIPLOT 3 4
FEEDBACK OFF
FRAME OFF
PRE-SORT OFF
LABEL SIZE 4
LOOP FOR K = .1 .1 1.2
     LET Y=SIN(K*THETA)
     XLABEL ^K
     PLOT Y X
END OF LOOP
END OF MULTIPLOT
```