

APPEND**PURPOSE**

Append a variable to the end of another variable.

SYNTAX

APPEND <var1> <var2>
 where <var1> is a variable;
 and <var2> is a variable.

<var1> is attached to the end of <var2>.

EXAMPLES

```
APPEND Y2 Y1
APPEND X X
```

DEFAULT

None

SYNONYMS

EXTEND is a synonym for APPEND, but with the arguments reversed. If you have 2 variables X1 and X2 and wish to append the contents of X2 onto the end of X1, then the following 2 commands are equivalent:

```
APPEND X2 X1
EXTEND X1 X2
```

RELATED COMMANDS

EXTEND	=	Extends a variable by another variable.
DELETE	=	Deletes all or part of a variable.
LET	=	Creates or transforms a variable.

APPLICATIONS

Data transformation

IMPLEMENTATION DATE

Pre-1987

PROGRAM

```
. PURPOSE--PLOT OUT THE COMPLEX ROOTS FROM THE FAMILY OF FUNCTIONS  $K + 1*X + 1*X**2$ 
. ANALYSIS TECHNIQUE--COMPLEX ROOTS + PLOT
. DEFINE THE BASE POLYNOMIAL  $1 + 1*X + 1*X**2$ . IT WILL BE UPDATED LATER
DIMENSION 20 VARIABLES
LET P = DATA 1 1 1
LET X2 = DATA -999 -999; LET Y2 = DATA -999 -999; LET D2 = DATA -999 -999
. EXECUTE A LOOP. FOR EACH ITERATION, CHANGE THE BASE POLYNOMIAL TO
.  $K + 1*X + 1*X**2$ . COMPUTE AND STORE THE 2 COMPLEX ROOTS.
LOOP FOR K = 1 1 10
  LET P(1) = K
  LET X Y = COMPLEX ROOTS P
  LET D = K FOR I = 1 1 2
  APPEND X X2
  APPEND Y Y2
  APPEND D D2
END OF LOOP
. PLOT THE ROOTS
CHAR 1 2 3 4 5 6 7 8 9 0; LINES BLANK ALL
TITLE K + X + X**2 (FOR K = 1 1 10); TITLE SIZE 4
X1LABEL REAL COMPONENT; Y1LABEL COMPLEX COMPONENT
PLOT Y2 X2 D2 EXCEPT D2 = -999
```