

Initialize Array

FILL T17

DESCRIPTION

The FILL special function sets each element of the input array to the value supplied by the user.

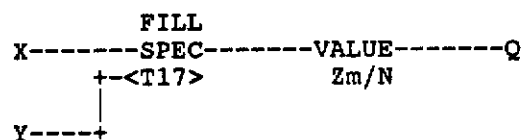
The FILL function treats a block of adjacent data table locations as a one dimensional array of numerical values. The elements within an array are referenced by an index commencing at word 0.

FEATURES

- Input array location and length definable by user
- User specified initialization value

SPECIFICATION

Control language:-



The mnemonic FILL will not automatically be recognised by older GEM80 programming units, but can be added as a user defined mnemonic in the System Programmer.

Table 1 **Program rung data**

Sym	Location	Use	Range
X	Upper Rung Input	Internal GEM80 address of array to be initialised	Address of write enabled data table location obtainable by LOCATE
Y	Lower Rung Input	Initialisation value	Any 16 bit pattern
Zm/N	Value	Length of array. May be specified either as a figure or as a table location in which the figure is located (5 locations)	1 to 4096
Q	Rung Output	Error code	0 for no error. See Table 2

Table 2 Fault codes

Conditions	Rung Output	
	Numeric Value	States ON
Programming error. Array length invalid	Q = 3	0,1
Programming error. Invalid array address: input array a) Not in write enabled table usable by specials; or b) extends beyond end of data table area	Q = 5	0,2



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