

INVGRP Functions

INVGRP S25

DESCRIPTION

The INVGRP function treats a group of adjacent data table locations as a one dimensional array of bits. This block of tables is referred to as a GROUP. The elements within an Array are referenced by a bit number, commencing at bit 0.

FEATURES

- Input and output Group locations specified by the user.
- User programmable Group length.

SPECIFICATION

Control language:-

INVGRP
 X-----SPEC-----VALUE-----Q
 S25 Zm

Table 1 Program rung data

Sym	Location	Use	Range
X	Rung Input	Internal GEM80 address of input Group	Address of data table location obtained by LOCATE
Zm	Value location	Start of parameter list (3 locations)	Any write-enabled table usable by special functions
Q	Rung output	Fault indication	-1 for no errors

Table 2 Value data

Sym	Location	Use	Range
EC	Zm	Error code	See table 3
GL	Zm + 1	Group length	1 to 128 data table locations
SA	Zm + 2	Internal GEM80 address of output group	Address of write-enabled data table location obtained by LOCATE (S20)

Table 3 Fault conditions

Condition	Result (Q)	Code in Zm	
		Numeric Value	States ON
Programming error Group length invalid	0	3	0 & 1
Programming error Invalid VALUE location:- (a) Input Group not in table usable by special. (b) Input Group extends beyond end of data table area.	0	5	0 & 2
Programming error. Invalid group address:- (a) Output Group not in write-enabled table usable by special. (b) Output Group extends beyond end of data table area.	0	17	0 & 4



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