

Pritext Function

PRITEXT S38

DESCRIPTION

For a GEM 80 controller with enhanced printing facilities (such as are provided by the GEM 80/250 series) the PRITEXT function enables a text message stored in the user's data tables to be output to a printer or equivalent serial device.

The execution of PRITEXT transfers data from a block of pre-defined data tables to the cyclic buffer store provided for the selected printer port. The printer port's buffer can store several messages, and automatically outputs them until the buffer is empty.

PRITEXT is primarily intended for output of message strings which have been entered using CHARIN (T39). General text and numeric output is accomplished by the PRINT (T38) special function.

FEATURES

- On-line selection of printer port for output
- Full ASCII/ISO-7 character set
- Message layout identical to input layout created by CHARIN (T39) and is compatible with GEM 80 video processors

SPECIFICATION

Control language:-

PRITEXT
X-----SPEC-----VALUE-----Q
 S38 Zm

Table 1 Program rung data

Sym	Location	Use	Range
X	Rung input	Port to be used for output	0 to 4 0 = no operation
Q	Rung output	Fault indication	See table 3
Zm	Value location	Start of text string	Any table usable by special functions

Table 2 Value data

Location	Data	
	bits 0-7	bits 8-15
Zm	Length of message	character 1
Zm + 1	character 2	character 3

etc.

Operation:

Length of message is in the range 0 to 255, characters are in ASCII/ISO-7 code.

For details of the operation of the printer port (padding characters, when transmission occurs etc.) refer to the user information leaflet for the host controller.

Two flags for each printer port are provided. One (called the empty flag) indicates when all characters have been transmitted and the buffer is empty. The other (called the filling flag) indicates when there is no longer room for one complete line of output. The table locations containing these flags are detailed in the user information leaflet for the host controller.

Table 3 Fault conditions

Condition	Rung output Q		Filling Flag
	Numeric Value	States ON	
Successful execution resulting in room for > one line.	0	None	OFF
Successful execution resulting in room for < one line.	0	None	ON
Rung input (port number) outside valid range.	3	0&1	-
Programming error. Invalid Value location. Message extends beyond end of data table area.	9	0&3	-

Table 3 Fault conditions (continued)

Condition	Rung output Q		Filling Flag
	Numeric Value	States ON	
Programming error. Port not configured as a printer.	17	0&4	-
Printer buffer overflow.	129	0&7	ON
Corruption of port's output buffer.	257	0&8	OFF



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