Title:

RC8000 PUNCHED CARD READER PROCESS

Keywords:

RC8000, external process.

Abstract:

This paper describes the conventions of an external process controlling a punched card reader connected to RC8000.

(8 printed pages)

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General Rules.

Operations can be initiated by an internal process that has <u>initialized</u> or <u>reserved</u> the device.

When the device is local input operations will be terminated immediately with the intervention bit set. The device is set local, after a timer error, when the input tray is full or when the output tray is full.

Sense Operation.

The device is sensed and the status word is delivered as an answer.

Sense Ready Operation.

The operation is delayed until the device is either set to the remote state or disconnected. The device is then sensed and the status word is delivered as an answer. The operation is only delayed one minute of which a timeout will occur.

It is possible to regret a sense ready message sent to the card reader process by means of the monitor procedure regret message.

Input Operation.

A number of punched cards of 80 columns each are input to a storage area within the sending process.

Input is terminated,

1) where there is no room for an entire card, or

2) when the sending process is stopped, or

3) when any status bit is set

whichever occurs first.

In all cases input is terminated by an answer defining the actual number of characters transferred to the storage area.

Input Mode.

The following modes can be used:

0: Punched binary

10: Punched decimal with conversion

64: Mark sense binary

74: Mark sense decimal with conversion

256: Basic cards

Depending on the mode a character is inserted following each punched card:

Mode		Addition
0	:	none
10	:	NL
64	:	none
74	:	CR, NL
256	:	none

The blocksize depends on the mode:

Mode		Bytes
0	:	120
10	:	81
64	:	60
74	:	42
256	:	variable

Status bits

bit no	
0	intervention
1	parity error
2	timer
3	data overrun
5	end document
7	bit 7 alone file separation card read
8	bit 7 and 8 job separation card read
10	read error
11	card reject

Messages and Answers.

operation:	message:	answer:
sense	0	status word
		0
		0

operation:	message:	answer:
sense	0 < 12 + 4	status word
ready		0
		0
input	3 < 12 + mode	status word
	first storage address	number of halfwords
	last storage address	number of characters
		number of error-free characters

RETURN LETTER

Title: RC8000 PUNCHED CARD READER PROCESS   RCSL No.: 31–D537

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