

The five RPQ's of concern are: terminal generated address, transmit interrupt, ribbon shift, print inhibit and inhibit automatic EOT. Specifications for each follow:

1. Automatic Address Answerback

This RPQ enables the 2741, at the central processor's request, to transmit a programmable four character address.

After establishing a dial connection, the operator depresses "Attention." This action places the 2741 in Receive Control. The multiplexor transmits a  $\textcircled{D}$  which places the terminal in Receive Text. A prefix + code sequence transmitted by the multiplexor conditions the terminal's Auto Address Latch. When the terminal is returned to Transmit Text by the multiplexor, the 2741 will automatically transmit a programmable character address, following the normally transmitted D.

After the fourth Address character, the Auto Address Latch is reset and a C is transmitted, again placing the terminal in Receive Control. This is RPQ E46148.

2. Red Ribbon Control

This RPQ provides the 2741 with the ability to shift to and from red printing under the control of a central processor. The 1050 "Punch On" and "Punch Off" characters were selected to control this function. The terminal will shift to red when it receives a "Punch On" character code and to black when it receives a "Punch Off" character code. Whenever power is turned on, the terminal will shift to a black mode. This is RPQ 868019.

3. Print Inhibit Control

The CPU can control print suppression by sending the bypass code; the restore code will return the 2741 to the print mode. These codes are recognized by the terminal when in Receive Text. This is RPQ E46151

4. Transmit Interrupt Control

This device enables the computer to interrupt a transmission from the 2741. A "space" condition on the 2741's receive line, for a minimum of 200

milliseconds, is required to force the terminal from the text transmitting mode to Receive Control. This is RPQ E40681. If an IBM Line Adapter is used it must be a 4 wire version. Valid with 103A, 103F, Western Union 1183A or equivalent full duplex data sets only.

5. Inhibit Auto EOT

The RPQ provides a switch which enables the automatic EOT function. With the switch in the "NORMAL" position, 2741 operation is unchanged. With the switch in the "OFF" position the following occurs:

(a) No EOT is transmitted with a carrier return function or when the attention key is depressed.

(b) A 200 millisecond space is transmitted when the attention key is depressed and the 2741 is forced into receive control mode.

When the 2741 performs an auto address answerback sequence an EOT is transmitted.

INTERDEPARTMENTAL

MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE, MASS. 02139

from the office of Telecommunications

J. R. STEINBERG

JUN 7 1971

June 4, 1971 Ref. to.....

File.....

To: R. Steinberg

Subject: Data Consoles

As you know, IBM 2741 data consoles are presently equipped with 5 RPQ's:

- Automatic address answerback.
- Transmit interrupt control
- Auto EDT inhibit
- Red ribbon control
- Print inhibit control

In order to reduce the costs of these terminals to the MIT time sharing community, it is planned that the latter two RPQ's will not be provided in future IBM 2741 data consoles received from the supplier. Accordingly, the print inhibit function now performed by the console must be made a software function.. Therefore, notice of this change should be given to your programmers. It should be noted that the first IBM 2741's without these features will not be made available until October.

*M. Berlan*

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- cc: W. Burner  
 W. Hayden  
 L. Ryan  
 R. Conrod  
 M. Bacon

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h  
 copies to R. Roach  
 J. Gintell

D

Did IPC request this?  
 Red shift will come  
 extra letters to print?