

PERMANENT MEMORANDUM NO. 1109

SUBJECT: TIC (Typewriter Inquiry Control)¹

DATE: June 19, 1961

TO: PDP Distribution List

FROM: Adams Associates

AREA: 7647-7777

START: 7777 or 7647

PURPOSE:

To provide a convenient method of examining and/or changing words or groups of words in core memory via the console typewriter. All information will be in octal notation.

USE:

Start at 7777 and type in the first address desired followed by a delimiter* (normally a tab). The routine will respond by typing the contents of the location specified by the address just typed-in, and wait for another action by the operator. At this point a replacement word may be typed in followed by either of two delimiters or, if no correction is desired, only a delimiter is typed. If the delimiter is a carriage return, the routine will index the current memory location address by one, type out the address, a tab, and the contents of this new location. The options at this point are the same as just described. If the delimiter typed is a period, the routine will return to the point of waiting for the type-in of an address. If no further examinations are to be made, an address followed by the delimiter "j" will cause the routine to start operation at that address.

SPECIAL NOTES:

1. The accumulator and the IO register are preserved.
2. All type-ins by the operator will be in read while all type-outs by the routine will be in black.
3. With one exception, leading zeros on all type-ins may be omitted. That is, 0364 is equivalent to 364. The exception to this rule is that if a word of all zeros is to be typed as a correction word, at least one zero must be typed by the operator.

* A delimiter is defined as any of the following characters: carriage return, period, tab, or "j".

4. There is no limit to the number of characters typed between delimiters, e.g., if a mistake is made and discovered prior to typing the delimiter, a new string of six characters may be typed. Only the last six characters typed will be recognized by the routine.

EXAMPLE OF USE:

In the following examples all underlined characters are in red (typed by the operator) and all non-underlined characters denote computer responses.

<u>216</u> (tab)	700100 (tab)	.
<u>123</u> (tab)	620407 (tab)	(cr)
0124 (tab)	170017 (tab)	<u>620031</u> (cr)
0125 (tab)	441266 (tab)	<u>54446621.</u>
<u>344</u> (tab)	000001 (tab)	0.
<u>350</u> (tab)	000427 (tab)	(cr)
0351 (tab)	000411 (tab)	<u>353</u>
0352 (tab)	000353 (tab)	.
<u>113j</u>		

1. Acknowledgment

The TIC (Typewriter Inquiry Control) was supplied by Charles W. Adams Associates, Inc., Bedford, Massachusetts