CALLS ON THE TTY LINE COLLECTOR

8 NOVEMBER 1971

1) ALL CALLS ARE OF THE FOLLOWING FORM:
   PARAM1: DATUM
      BOTTOM 30 BITS: ACTION CODE
      TOP 30 BITS: MODIFIER
   PARAM2: BLOCK DATUM
   THOSE CALLS THAT RETURN DATA (E.G. *GET A LINE*) EXPECT
   A RETURN PARAMETER AUTHORIZATION FOR DATA OF AT LEAST 12 WORDS.

2) A LINE IS PASSED TO THE LINE COLLECTOR IN THE BLOCK DATUM
   PARAMETER AND IS RETURNED FROM THE LINE COLLECTOR IN THE DATUM
   RETURN AUTHORIZATION IN THE FORM:
       WORD0: CHARACTER COUNT
       WORDS 1 TO 11: SYSTEM LINE
   LINES ARE ALWAYS RETURNED WITHOUT BLANK COMPRESSION, BUT THE
   LINE COLLECTOR WILL ACCEPT PRINT LINES WITH BLANK COMPRESSION.
   HOWEVER, LINES TO BE EDITED MAY NOT HAVE COMPRESSED BLANKS.

3) ACTION CODES AND MODIFIERS:
   ACTION=0
      RESET: MODIFIER IGNORED. SETS PANIC CHARACTER
      TO CONTROL-SHIFT-P. SETS BREAK TABLE
      TO BREAK NON-GRAPHIC. PURGES ALL [INPUT]
      TELETYPE BUFFERS.
   ACTION=1
      GET A LINE. EXPECTS DATA RETURN AUTHORIZATION.
      SWITCHES BREAK TABLE TO NON-GRAPHIC.
      BOTTOM 7 BITS OF MODIFIER ARE USED
      AS A PROMPT CHARACTER UNLESS = 0.
      BIT 1000B OF MODIFIER, IF SET, TURNS
      OFF ECHO FOR THIS LINE. [BIT 2000B OF
      MODIFIER, IF SET, CAUSES RETURN IF
      NO LINE IS READY TO RETURN]. [BIT 4000B
      OF THE MODIFIED, IF SET, CAUSES
      INPUT LINES TO BE BLANK COMPRESSED.]
   ACTION=2
      OUTPUT A LINE. TERMINATES BY CHARACTER COUNT OR
      CARRIAGE RETURN, WHICHEVER IS FIRST.
      COMPRESSED BLANKS ARE PERMITTED ON THIS
      CALL. IF A CARRIAGE RETURN IS PRESENT
      A LINE-FEED IS ALSO TYPED. [IF BIT 1
      OF MODIFIER IS SET, INTERPRET PER CENT
      ESCAPE CONVENTIONS].
   ACTION=3
      OUTPUT A CHARACTER. THE BOTTOM 7 BITS OF WORD0
      OF THE BLOCK DATUM PARAMETER (PARAM2)
      WILL BE TYPED AS A CHARACTER. NON-
      GRAPHIC CHARACTERS ARE ALLOWED. A
      CARRIAGE RETURN WILL NOT AUTOMATICALLY
      BE FOLLOWED BY A LINE-FEED. MODIFIER
      IS IGNORED.
   ACTION=4
      EDIT A LINE. LINE CONTAINED IN PARAM2 IS MADE THE
      OLD LINE. [NOTF-LINE MAY NOT CONTAIN
      COMPRESSED BLANKS]. MODIFIER IS AS
      DESCRIBED IN *GET A LINE* (ACTION=1).
   ACTION=5
      GET A STRING. STRING IS TERMINATED BY A BREAK
      CHARACTER AS SPECIFIED BY THE CURRENT
BREAK TABLE. THE BREAK TABLE IS SELECTED BY THE #BT Field of the Modifier, Bits 170008~ the Break Character is never echoed, but the preceding characters are echoed unless bit 1000 of the Modifier is set, Systext bits are not set in the returned string, and the old line is not affected. [BIT 20008 of the Modifier, if set, causes freturn if no string is ready to return]. The following Break Tables are available:

<table>
<thead>
<tr>
<th>ACTION</th>
<th>BREAK TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Break on None</td>
</tr>
<tr>
<td>1</td>
<td>Break on All</td>
</tr>
<tr>
<td>2</td>
<td>Break on Non-Graphic</td>
</tr>
<tr>
<td>3</td>
<td>Break on Non-AlphaNumeric</td>
</tr>
<tr>
<td>4</td>
<td>Break on Non-Numeric</td>
</tr>
</tbody>
</table>

CHANGE PANIC CHARACTER. Bottom 7 bits of Modifier are used as the new Panic Character. (Character is true ASCII, not TSS shifted ASCII). *This action is turned off until need is proved.*

Note: 11 indicate unimplemented features.