SSTAT MICROLOGIC

The Micrologic card in the system that the SSTAT call controls
is used as a general purpose I/O card. It has 16 input and 16
output lines. This routine makes it possible to output to, or
read the status of these lines. This card is used to communicate
with some of the devices on the system. Examples of these are
the control of the vacuum and reading the clock (ET 7435). For
a description of what lines are currently used and what function
they perform see ET 7441 -95003-1

SSTAT is a BASIC callable routine as well as a subroutine used
by other assembly programmers. The name of this routine is MIC.
It has two entry points SSTAT and BTN.

BTN is another entry point that is used to read line 0.

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PROGRAMMING

SSTAT call uses two variables. The first determines if the call
is to input or output and which line(s) are involved. The second
is used to determine output or give a variable for return data
storage. Examples of BASIC call:

100 SSTAT (I,U)

where I = 1 through 15 to read the stat use of the
line called out (1 or Ø)

=-1 through -15 to output to the line called
out

= 20 to read all lines and mask to the top 8 bits
and return a fixture code

=-20 to output to all the lines

U = the variable to return the data to if I was
positive

= 1 to output a 1 to the line(s) indicated by a
negative I value

= Ø to output Ø to the line(s) indicated by a
negative I value

BTN call is used as a pause for remote control.

EXAMPLE:

100 BTN

result: a message will be displayed, "press the button";if line
0 is grounded a message will be displayed and the program
will continue.

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