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----- SOL SYSTEM I/O ROUTINES -----

THE FOLLOWING CODE IS STANDARDIZED FOR ALL SOL SYSTEM
SOFTWARE IT PROVIDES COMMON ENTRY POINTS FOR INPUT AND
OUTPUT OPERATIONS.  CONSOL DOES NOT HAVE PROVISION FOR
PARALLEL I/O OPERATIONS BECAUSE OF SPACE LIMITATIONS.

JUMP TABLE INPUT/OUTPUT ROUTINES

THIS ROUTINE OUTPUTS THE CHARACTER IN REGISTER 'B' TO
THE OUTPUT DEVICE POINTED TO BY THE CURRENT OUTPUT SELECT
REGISTER.  THE DEVICES ARE DEFINED AS FOLLOWS:

0 - VDM SCREEN
1 - SERIAL OUTPUT PORT
2 - PARALLEL OUTPUT PORT (NOT AVAILABLE ON CONSOL)
3 - ERROR HANDLER

ENTRY AT:  SOUT SELECTS CURRENT OUTPUT DEVICE.
          AOUT SELECTS DEVICE IN REGISTER 'A'.

          LDA      OPORT      GET PORT NUMBER FROM MEMORY LOCATION
          ANI      3          KEEP IT IN CONTROL
          PUSH     H          WE'LL RESTORE IT LATER
          LXI      H,OTAB    POINT TO TABLE
          RLC      .          COMPUTE ADDRESS
          ADD      L          L
          MOV      L,A       WE HAVE IT
          JMP      DISPT     GO TO HL...

THIS ROUTINE INPUTS A CHARACTER TO REGISTER 'A' FROM
THE CURRENT INPUT DEVICE POINTED TO BY THE CURRENT INPUT
SELECT REGISTER.

ENTRY POINTS ARE DEFINED:

0 - KEYBOARD INPUT
1 - SERIAL INPUT
2 - PARALLEL INPUT (NOT AVAILABLE ON CONSOL)
3 - ERROR HANDLER

          LDA      IPORT     GET PORT NUMBER FROM MEMORY LOCATION
          ANI      3         WE MUST BE REASONABLE
          PUSH     H         SAVE H&L
          LXI      H,ITAB    POINT TO TABLE
          RLC      .        THE MATH
          ADD      L         L
          MOV      L,A       DONE

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