

PROGRAMMING THE Z80

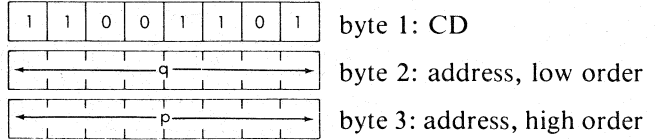
CALL pq

Call subroutine at location pq.

Function:

$(SP - 1) \leftarrow PC_{high}; (SP - 2) \leftarrow PC_{low}; SP \leftarrow SP - 2; PC \leftarrow pq$

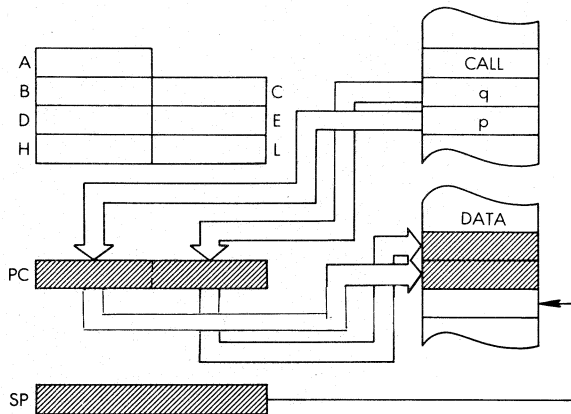
Format:



Description:

The contents of the program counter are pushed onto the stack as described for the PUSH instructions. The contents of the memory location immediately following the opcode are then loaded into the low order half of the PC and the contents of the second memory location after the opcode are loaded in the high order half of the PC. The next instruction will be fetched from this new address.

Data Flow:



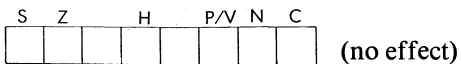
Timing:

5 M cycles; 17 T states; 8.5 usec @ 2 MHz

Addressing Mode: Immediate.

THE Z80 INSTRUCTION SET

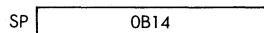
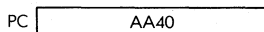
Flags:



Example:

CALL 40B1

Before:



After:

