



Bit oring technique is RESTRICTED TO THE LEAST SIGNIFICANT OCTAL DIGIT of the control store address. An outline of the microprogram corresponding to OPR instruction is given below:

1. Fetch instruction.
2. Fetch source operand, if required.
3. Fetch destination operand, if required.
4. Execute the operation.
5. Store the result.

Write a detailed microprogram implementing instruction OPR src, dest. You must specify the location of every microinstruction in the control store. Also, you must specify, on a separate page, and whenever bit oring is applied, the bits involved in the OR operation.

Bonne chance - Good luck!

Fetch

at least say with which IR bit

003 u Branch {020, OR-IR<sub>19</sub>}

020 MAR ← (Rsrc) Read, WMFC

024 Y ← (MOR Rdst)

021 Y ← (MOR)

025 Branch {030, OR-IR<sub>14</sub>}

022 u Branch {030}

030 MAR ← (Rdst) Read, WMFC

034 Temp ← (Rdst)

031 Temp ← (MPR)

035 Branch {050, IR<sub>25</sub>, IR<sub>27</sub>}

032 Branch {040, OR opcode}

IR<sub>25</sub> IR<sub>27</sub> 0