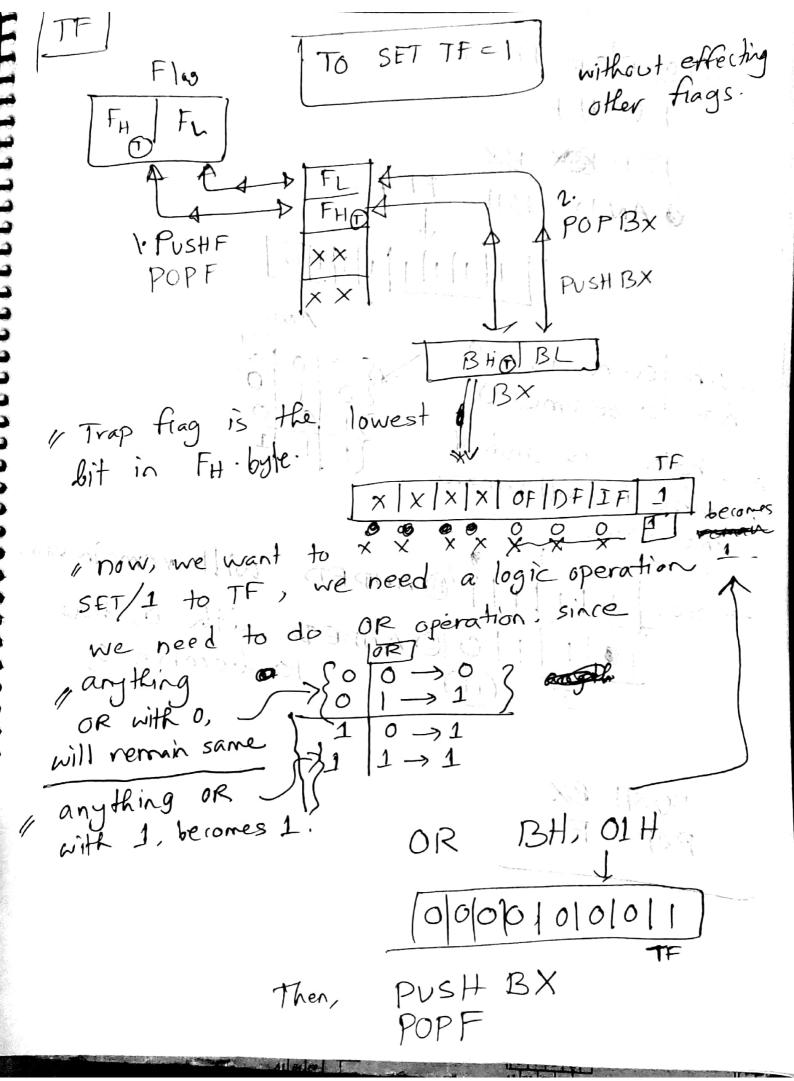
interchange the - rotate it 4 times. MOV CL. 4 not with carry ROL BL, CL 6.02 (2 6 4.50) MUL, DIV. NUMBER Machhe Processor control loops via these instruction we can directly operate on flag s 1) Push F - push 2) POPF 3) LAHF 4) SAIHF When we do arithmetic/logical instructions like: ADD BL, DL. by product they are getting effected

push F Load AH from AH & Flag (FL) lower byte of flag register loaded on AH. = store AH back into flag. AH -> Flago you want to the same frags back after 20/30 instructions, (you cannot assume flugs will contain same after 20 instructions)

fing will charge after ar every arithmetic 8 logical instructions. -> here, at that time we do PUSHF so, the entire contains will be pushed into stack (entire info is saved in stack) now, let the flags change 100 times. whenever, you wanna same contains back, you de POPF. POPF will restore that back from frag stack into the flag register. so, we can restore that value to the previous valve. For lower byte of flag , we do LAHF & SAHF familiar than the man't without the



To clear TF = 0 PUSH F POP SX BX FER O AND BH. AND whatever. is 0 has to become o, , whatever is anded with 1; will remain. -> SO, [] IIII (AND ED Will remain same 10/1/10/DANDED with 0, has to become a PUSH BX POP DEHOI 510 Timolo I de tolo

Processor Control // Machine Control Instructions

(these are instructions that directly operate on Flag Reg)

For Carry Flag

1) STC

pe 2)

This instruction sets the Carry Flag. No Other Flags are affected.

CF=1

2) CLC

This instruction clears the Carry Flag. No Other Flags are affected. CF-0

This instruction complements the Carry Flag. No Other Flags are affected. Cf = 1/0or Direction Flag

For Direction Flag

4) STD

This instruction sets the Direction Flag. No Other Flags are affected.

This instruction clears the Direction Flag. No Other Flags are affected.

For Interrupt Enable Flag

This instruction sets the Interrupt Enable Flag. No Other Flags are affected.

7) CLI

This instruction clears the Interrupt Enable Flag. No Other Flags are affected.

Note: There is no direct way to alter TF. It can be altered through program as follows:

To set TF:

PUSHF

POP BX

OR BH, 01H

PUSH BX

POPF

To reset TF:

PUSHF

POP BX O AND BH, FEH

PUSH BX

POPF

; push contents of Flag register into the stack ; pop contents of flag reg from the stack-top into BX

; set the bit corresponding to TF, in the BH register

; push the modified BX register into the stack ; pop the modified contents into flag register.

; push contents of Flag register into the stack

; pop contents of flag reg from the stack-top into BX

; reset the bit corresponding to TF, in the BH register

; push the modified BX register into the stack ; pop the modified contents into flag register.