

(2) - Control Unit >

-> Crenisats organals worthern MP to carry out the instructions, which has been decaded.

-> It consists of three parts-

(i)- Instruction register (IR)

(ii) - Instruction decoder and m/c cycle encoder

(iii) - Control and timing Unit.

(3) - ALV ->

- for Performs the actual numerical and logical operations such as add , subtract, 'AMD', 'OR', etc.

-> consists of accumulator, Plag negrister, and Temporary negrister.

* Accumulated -

-> 8- but negister.

-> Identified as registe A

-> result of an operation is stored in accumulator.

-> flags_

are set or neset after an operation according to the data conditions of the result in accountable oned other negesters.

loading 16- bit address in the steek points.

Increment / Decrement Country _

- Used to increment / decrement the contents of the various registers available in the register unit
- eg everytime up accesses a memory, its pc registre is incremented.

Mux/ Demux Unit -

- used to select a register out of all the available neglisters.

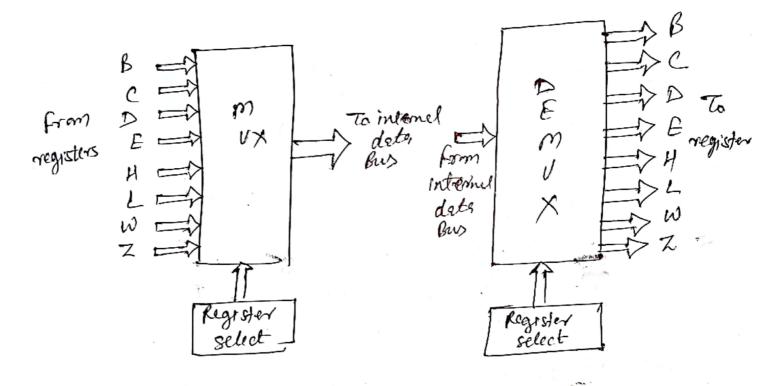


Fig - mux / Demux Unit

- They are called Zero(Z), carry (CY), 87gm (S), Pourty (P) and Auxillary Carry (AC) Flags,

- The UP vses these flags to set and test data conditions.

27	D6	Ds	D4	D3	02	0,	80
S	こ	X	AC	×	P	X	ey

X> Not specified.

fig: - format of flag negister

P> even party (1)
odd 11 (0)

CY-) set if carry/Borrow is generated.

S> 1. for the result.

770, if result of so operation is O.

A(-) 1, 14 cally propagates from D3 toDy.

8085 PIM DIAGRAM

•		
X, 1	-V	40 Vcc
X2 = 2		39 - Hold
Reset-Out = 3		38 HLDA CLIX (OUT)
SOD = q		37 Reset In
SID = 5		36 Ready
TRAP == 6	0	35 = 70/m-
RST7.5	8	39 L Si
RST 6.5 = 8	A	33 RD RD
RST S.S C 9	0	31 - WR
INTR = 10	8	30 ALE
INTA - 11	O	29 7 So
ADO - 12	5	28 7 A15
AD, = 13		_ 0
AD2 = 14		71
AD3 = 15		70 70
AD4 = 16		7.3 . A
ADS = 17		7
AD6 = 18		23 7 A10
		· 22 7 Ag
7 - 7		21 - A8
Vss = 20		

- → 40 pin IC
- -> operates at + SV and 3mHz.
- -> 40 pins are divided into six groups according to their function.

