ADD [0301], AX: - This insteads the contentogax to the contents of mem locations 0301 and 0302. Register Andrect Addicessing The operand's offset is placed in any one of the registers BX, BP, SI DI as specified in the inset 11) MOV AX, [BX]! - This mot moves the contents of monory locutions addhossed by the leg By to the rieg AX, for eg: - BX continus 0301 the contents of 0301 is 53H and sire confent of the next mem-location is 95H The 9553 H will more to AX. LANDING PARTY COLD based addressing, operand saffeet is the sum of an 8-bit 116-bit displacement and the contents of the base Register BX or BP: susced as base deg. for SS.

used as base neg for DS. offset = [BX+3bit/16bitdop] FIFTH DE MOVALICBX+05] Suppose Bx Lowanis 0301 03014652 6306. Time contains of 0306 will move to AL.

* Addressing Modes of 8086: - [An inst performs specific operation on the specified data (operand). The maryby adelessing mode is specified for an inst is called 8087 has & add modes 12 for instadion the location of an opening (6) specify Operates on seg or which is placed in a memory. fighy data; The men address of on > leg. addressing !aperand consists of two MOVAX, CR. ADD AL, BL >. Immediate add! Startingledd + offeet

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any combination of free addeling

and index. components: MOVAL, 354 MOV BX 103014 > The comb. depends on Dass (content of the base reg., Bx or Bp Jen in the asset. H) Inder (u u under Reg, SIOIDI). Courts of these add elements give sin memory addressing, modes! Desect addressing'- the operand's agreet is given in the inst as an 8 bit on 16-bit displacement elements ADD AL, [03017 : - This inst adds the contents of offset address 0301 to AL. The operand is placed at the given offset (0301) within me dates seg (DS)?

I Indened addressing, operandis offset is Offset = SIOLDI + 8 51+116 bit desp] MOVAX,[SI+05] MOVAX, [SD+1528H] D. Based Indened and!, operand is offset offset = [BrorBP] + [SIONDZ] used as huse leg for DS. eg! ADD AX, [BX+SI] MOVCX, [BX+SI] Based Indened with disp! offeet = [BX OLSP] +[SI OLDE] + & bif/16 bif desp MOV AX, [BX+SI+O5] MOV AX, [BX+SI+123571]