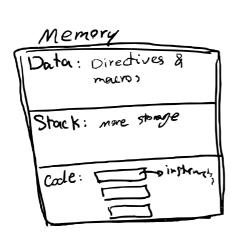
Statements

Directives/Pseudo-OPs

Instructions

Macros



Instructions

Data moving Aithmetic , Conditioned control transfer unconditional Subroutines String manifulation Instructions Compare setting/cleaning flogs
Stack operations MDV

mov destination, source

LEA (Load Effective Address)

Lea register, memory_address

* why effective ? since it calculates

the final address ex. Lea dx, [SI +4]

XCHG (exchange)

XCHG register, memory-address

* like mor (and most of other instructions)
we can't use it with both memory-address.

INC (increment) DEC (Decrement) inc destination dec destination Add Sub add destination, source Sub destination, Source Md # It uses AL as mul source destination 1 * unsighed mul IMUL * Again AL as mul Source destination * Signed mul DIV, IDIV implicit AX div source destination * It returns Quotient AL Remainder AH AX = Quotient, Remainder Divisor AL AH * Overflow in multiplication carbe easily handled by using AX, but in division it is a frablem, and It generales an special software interest when over flar happens. were avotient Remainder $\frac{24}{13} = 1.13 + 11$

* Both multiplication & Division combe used for 32-bit operands as new by using DX register.

DX AX = AX, DX

16-bit