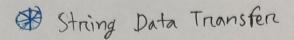
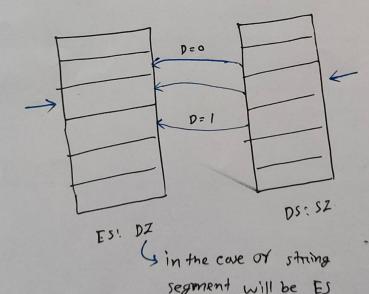
## CSE 331/L-7/02.03.2024/



- ⇒ LODS, STOS, MOVS, ZNS, OUTS
- ⇒ value of SI/DI must be known
- =) value of D, ex must be known

Byte Word Double Word

- ⇒ Sounce is fixed, DS:SZ
- =) Destination is fixed, Es: DZ



for word size, inene.

and decrement depends

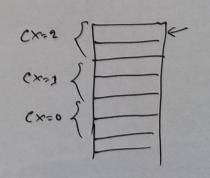
on the value of D.

This applicable for

both sounce & Destin.

Repeat, Repeat count depend on the value of c+

- check value of Cx == 0?
  - talse, enecute and decreament value of ex
  - true tenminate openation

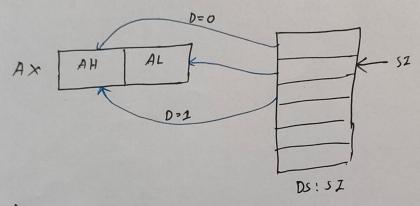


CLD = Clean D, set D = 0 (auto increament mode) STD = Set D, set D = 1 (auto decreament mode)

## ( 1005 -)

\* LODS B/W/D/9 => Load String

- =) Sounce is fixed as ps: SI
- =) Destination is fixed as AL, Ax, EAX, RAX



⇒ LoDs LZST
 +transfer size depends on the size of LZST
 - in the position of B/W/D/Q → LZST

> REP LODS × not possible

> As destination is fixed, repeating operation will

svennide the previous data.

STOSB/W/D/O >> Stone String

- => Sounce is fixed as AL, Ax, EAX, RAX
- =) Destination is fined as Es: DI

## => REP STOSB

- Possible as it is not overriding the destination data
  - But it will copy the same string to multiple location of Entra Segment.
- REP = Repeat
  - =) used only for string instruction
  - =) not applicable for LODS
- INSB/W/D/g => Stone string in Es:DI come from I/O Devices

address of the device stone need to be stone in Dx, before enecution of ZNS

OUTS B/W/D/B > transfer string data from

DS: SI to I/o Derices.

need to load in Dx first.

