

PRACTICAL ASSIGNMENT - 2

1. Explain string instruction of 80386?

String instruction is as follows

a) MOVS : move string byte or string words or string double words

MOVSB : move string bytes

MOVSW : move string words

MOVSD : move string double words.

b) CMPS : Compares string byte or words or double words

c) SCAS : Scan a string byte or word or double words

d) LODS : Loads a string byte in AL or a string words in AX or double word in EAX

e) STOS : Store byte or word or double word in string

f) REP : Repeat string instruction until specified conditions exist.

2. Explain direction flag?

The direction flag is a flag that controls the left to right ~~to~~ - left direction of string processing stored in the FLAGS register on all x86 compatible CPUs.

This flag is used to direction in which several bytes of data will be copied from one place in the memory, to another.

If ~~it~~ it is set to 0, it means that strings is processed beginning from lowest to highest address:

If it is set to 1, the string is processed from highest to lowest address