

## CS271 WK8 Reading

### 9.2- String Primitive Instructions

- MOVSB (B|W|D): move data addressed by ESI to memory addressed by EDI.
- CMPS (B|W|D): compare mem addr'd by ESI and EDI
- SCAS (B|W|D): compare accumulator (AL|AX|EAX) to mem at EDI
- STOS (B|W|D): store Accumulator contents into EDI
- LODS (B|W|D): Load accumulator into mem at ESI

### Repetition Instruction Prefix

- Used as in <prefix> <S.primitive>
- REP: repeat while ECX > 0
- REPE/REPZ: Repeat while ZF is set, and ECX > 0.   
 ↳ repeat equal while
- REPNE/REPZ: Repeat while ZF is NOT set, and ECX > 0.   
 ↳ repeat while ~~DEC ECX~~ <sup>must all</sup>

### Direction Flag $\neq$ (NE)

- CDD: Clear Direction Flag
- STD: Set Direction Flag