MD. ANIK ISLAM 1512132642 esessil H.W.4

* MOV-MOV Destination, Source

The MOV instruction copies a word on tyde of data from a specified source to a specified destination. The destination can be a register on a memony location. The source ear be a register, a memony location on an immediate number. The source and dentination cannot both be memory locations. They must both be of the same type. MOV instruction does not affect any flag.

* LEA-LEA Register, Source

This instruction determines the object of the variable on memory location named as the source and puts this offset in the indicated 16-bit regulater. LEA does not affect any flag.

ADD-ADD Deslination, Source ADC-ADC Dentiration, Source

These instruction add number from some source to a number in some deplination and put the result in the specified declination. The ADC also adds the status of the earny flog to the nouth. The sounce may be an immediate number, a register, or a memory location. The destination may be a register on a memor beation. The sound and the donkinstion most be at the same type. It you want to add a byte to a wond, you most copy the by to a wond location and dill the upper byte of the war with D's before adding. Flugs abbelled: AF, CF, OF, SF, 2

SUB-SUB Pertination, Source

SBB - SBB Pertination, Source

These instruction subtract the number in some source to the number in some destination and put the secont in the destination. The SBB instruction also subtracts the autom

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register on a memory location. The destination can also be a negligible on a memory location. However, the source and the destination cannot both be memory location. The source and the destination cannot both be the same type. It you want to subtrust a byte from a word, you must find move the byte to award a byte from a word, you must find move the byte to award location such as a 16-bid register and fill the upper byte of the word with 010. Hugo affected: AF, CF, OF, PF, SF, ZF.

MUL-MUL Source!

This instruction multipless an unsigned byte in some source with an unsigned byte in AL register on an unsigned word in some source with an unsigned word in AX register. The source can be arrayinteer on a memory location. When a byte is multiplied by the content of AL, the result is put in AX. When a word is multiplied by the content of AX. When a word is multiplied by the content of AX. When a word is multiplied by the content of AX. When a word is multiplied by the content of AX. When a word is multiplied by the content of AX.

byte of a 16-bit result on mont significant word of 82-bit result in 0, CF and OF will both be 0's AF, PF, 9F and ZF one undefined after a MUL instruction.

DIV - DIV Source!

This instruction is used to divide an unsigned world a byte on to divide an unsigned double word by a word. When a world is divided by a byte, the world most be in the AX register. The divisor can be in a neglodor on a menory location. After the division. At will condain the 8-bit quotient, and AH will eontain the 8-bit remainder. When a double wond in divided by or word , the mont eignitional word of the double wond must be in DX, and the

Irant significant world of the double world must be in AX. Alter the distrion, AX will contain the 16-bit quotient and DX will contain the 16-bit remainder. It an attempt in made to divide by 0 on it the quotient is too large to hit in the dentination. The 8086 will percente a type 0 interapt. All they are undefined after DIV instruction

INE-INE Dentination

The IMC instruction add I to a specified register on to a memory location. AF, OF, PF, SF and ZF are updated, but CF is not affected. This means that it as 8-but destination containing FFH on a 16-bit destination containing FFFFH is incorrected, the result will be 000 with no easier.

DEE-DEE Deadination

This instruction subtracts I from the destination wond on byte. The destination can be a register on a memory location. AF, OF, SF, PF and ZF are updated, but CF is not affected. This means that it as 8-bit destination contains 00th on a 6-bit destination contains 000th in deepermented, the result will be FFH on FFFFH with no easy.

DAA

It is instruction is used to make cure the newth of adding two preked BED numbers is adjusted to be a legal BED number. The result of the addition must be in AL for DAA to work connectly. It the bows nibble in AL after an addition is greater than I on AF was set by the addition, then the DAA

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Instruction will add 6 to the house withde in AL. If

The routh in the upper withde of AL is now greater than 9

on it the copy they was set by the addition on connection,

then DAA instruction will add 60H to AL.

Numerical data coming into a computer from a terminal in usually in ASCII code. In this code, the numbers, 0 to 9 one represented by the ASCII codes son too decimal digits without marking off 3 in the upper nibble of each. After the addition, the AAA inclined his used to make some the result is the connect unpacked BCD.

AND-AND Dendindron, Source

This instruction AND each bird in a source byte on wond with the same mumbood birt in a dentiration byte on wond. The newall in put in the specified destination

The content of the specialized source is not changed.

OR-OR Destination Some.

While implementation CRs each bid in a sounce byte on world with the same numbered bid in a destination byte on world. The result is put in the specialist destination. The earliest of the specialist source in met chayed.

MOR-MOR Dendination, Source

this instruction Exclusive -OR each bit in a country byte on word with the some numbered bit in a deciliation byte on word. The month in put in the specific destination. The montest of the specific scores in red changed.