Multiplication overflow ? NO overflow is possible !!!!

b\*b=w, w\*w=dw, dw\*dw=q

operand on M positions \*operand on N positions = result on M+N

CF = ?, OF = ?

Division ??

w/b = b; dw/w = w; q/dw = dw

536/1 =536 !!!! - INT 0 will be issued 🡪 RUN TIME ERROR !!! – Zero Divide, Division by Zero, Divide Overflow

CF, OF ? – multiplication ? division ?

d/0 = forbidden !!!! – this is a ZERO DIVIDE or a Division by 0 !!!= OVERFLOW !!!!!!!!!!

addition, subtraction – IADD, ISUB ???? Because NO decision should be taken BEFORE the operation regarding the INTERPRETATION !!!! - and that is wht we should have OF and CF – SIMULTANEOUSLY !!!!!

multiplication, division - IMUL, IDIV, DIV, MUL – YOU should DECIDE BEFORE PERFORMING these op. IN WHICH WAY YOU WANT TO PROCEED – SIGNED or UNSIGNED !!!!

* CF = OF ? – add, sub, mul, div
* CF diff. OF ?....

0……+ CF = 0, OF = 1, SF = 1, ZF = 0

0……

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1……

1…..+

1….. CF = 1, OF = 1, SF = 0, ZF = ???????

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0…..