where A=4490000 & B=42A0000

- A=01000100100100000000000000
- B=01000010101000000000000000
- A & B are +ve numbers
- E'_A= 89H= E_A=E'_A-127=10
- M_A= 001000….
- E'B

Add single precision floating point numbers A & B where A=4490000 & B=42A0000

- A=01000100100100000000000000
- B=01000010101000000000000000
- A & B are +ve numbers
- E'_A= 89H= E_A=E'_A-127=10
- M_A= 001000….
- E'_B =85H= E_B= E'_B-127=6
- MB=01000…
- A=1.001*2^10
- B=1.010*2^6

Floating point arithmetic: MUL rule

- Add the exponents.
- Subtract the bias.(127 in case of single precision & 1023 in case of d
- Multiply the mantissas and determine the sign of the result.
- Normalize the result (if necessary).
- Truncate/round the mantissa of the result.

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Perform the multiplication of

A=36100000 B=D4100000

- A=00110110000100000000000000000000
- B=11010100000100000000000000000000
- A; S=0;E=6C=108(10);E=E'-127=108-127=-19
- A=+1.001*2^-19
- B; S=1; E'=A8=168(10);E=E'-127=168-127=41
- B= -1.001*2^41
- (-1.001*1.001)*2^41-19=-1.010001*26^22
- 11001010101000100000.....
- CAA20000

Divide A=36100000 by B=D4100000

- A=+1.001*2^-19
- B= -1.001*2^41
- 1.001/-1,001 *2^-19-41= -1.0000*2^60
- E=-60; E'=127-60=67
- 10100001100000000…