

Different Representations of 0xC0000002

Integer:

1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
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$2^{31} \ 2^{30} \ 2^{29} \dots \dots \dots 2^0$

$$0xC0000002 = 2^{31} + 2^{29} + 2^1 = 49154$$

1.31 Fractional:

1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
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$-2^0 \ . \ 2^{-1} \ 2^{-2} \ 2^{-3} \dots \dots \dots 2^{-31}$



$$0xC0000002 = -2^0 + 2^{-1} + 2^{-30} = 1 - 0.5 - 9.313225746e-10 = 0.4999999991$$