

Once all the parts of the floating-point number are obtained, converting it to decimal is just a matter of applying the following formula:


Notice that the Mantissa actually represents a fraction, instead of an integer! In addition to representing real numbers, the IEEE 754 representation can also indicate...
the set of numbers known as denormalized numbers (including zero),

positive or negative infinity,

and even when something is not a number! This is called NaN .


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