

Examples:

0	11111111	000000000000000000000000	=	$+\infty$
1	11111111	000000000000000000000000	=	$-\infty$
<hr/>				
0	11111111	000001000000000000000000	=	NaN
1	11111111	00100010001001010101010	=	NaN
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0	10000000	000000000000000000000000	=	$+1.0 * 2^{128-127} = 2$
0	10000001	101000000000000000000000	=	$+1.101 * 2^{129-127} = 6.5$
1	10000001	101000000000000000000000	=	$-1.101 * 2^{129-127} = -6.5$
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0	00000001	000000000000000000000000	=	$+1.0 * 2^{1-127} = 2^{-126} = x_{\min}$
0	00000000	100000000000000000000000	=	$+0.1 * 2^{-126} = 2^{-127}$
0	00000000	000000000000000000000001	=	$+0.0\dots01 * 2^{-126} = 2^{-149}$ = smallest representable number
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0	00000000	000000000000000000000000	=	+0
1	00000000	000000000000000000000000	=	-0
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0	01111111	000000000000000000000000	=	$+1.0 * 2^{127-127} = +1.0$
1	01111111	000000000000000000000000	=	$-1.0 * 2^{127-127} = -1.0$