$$N = \sum_{i=0}^{l-1} c_i b^i$$

$b = 2$

l = numero di bit

0,55	1
0,1	0
0,2	0
0,4	0
0,8	0
0,6	1
0,2	0

0,100001...

1 Virgola mobile

2 Periodica

3 0

$l = 5$

MSB 0 1 1 0 0 LSB

16 8 4 2 1

16 + 4 + 2

$A = 1010 = 16_{16}$

$B = 0111 = F_{16}$

22	0
11	1
5	1
2	0
1	1
0	10110

$\mathbb{Z}$

a	b	+	*
0	0	0	0
0	1	1	0
1	0	1	0
1	1	10	1

MSB Segno

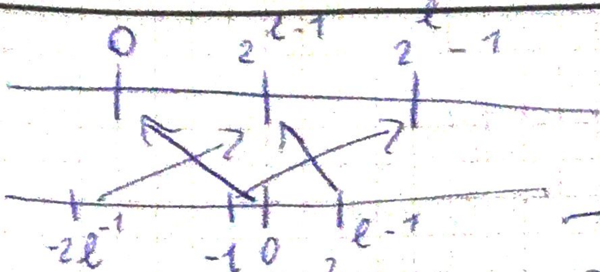
$l-1$ Valore

1+1 => Overflow

0000 — 1111

$[-2^{l-1}+1, 2^{l-1}-1]$

1111 + 1 = 0



1111 -1
1110 -2

$-x \to 2^{\ell} - |x|$

$-3 \to 16 - 3$

13

1101

$+x \to |x|$

$-9 = 2^8 - 9$

1001
0110 +
1 =

0111 0

$c = b - 1 - c$

00001001
11110110 +
1 =

11110111

$1 \to 0$ $b = 2$

$0 \to 1$

53

01100101 0

x MSB = 0

00110110

x

MSB = 1

$\overline{x} + 1$ +

2^{-4} ℓ_{-2} 2^3 2^2 2^1 2^0

$$\sum_{i=0} c_i b^i + c_{\ell-1} b^{\ell-1}$$

+