

- 1 2 3, 1 1 7 16 bits

$\underbrace{200}_{8\text{ bit}}$ $\underbrace{000}_{8\text{ bit}}$
 parte intero parte decimale

1 2 3, 4 5 6

$$0.123456 \cdot 10^3$$
$$9.7 \cdot 10^2$$

Conversion IEEE-754 simplified

-44.71 9 bit mantissa

4 bit exponent compl. to 2

Parte intera : 101100 Parte decimale : .1011

4	4	
2	2	0
1	1	0
	5	1
	2	1
	1	0
	0	1

$$\begin{array}{rcl} 0.71 & \times 2 & = 1.42 \\ 0.42 & \times 2 & = 0.84 \\ 0.84 & \times 2 & = 1.68 \\ 0.68 & \times 2 & = 1.36 \end{array}$$

1 0 1 1 0 0 . 1 0 1 1 . 2^5

Esperanto S → 0101

1 0 1 0 1 0 1 1 0 0 1 0 1 1

Signa Espoente Mantissa

Altro esempio

0. 2 3 4 6 bit mantissa
5 bit exponente

Parte intera: 0

Parte decimale: 0.001110111

$$0.134 \times 2 = 0.468$$
$$0.468 \times 2 = 0.936$$
$$0.936 \times 2 = 1.872 \leftarrow$$
$$0.972 \times 2 = 1.744$$
$$0.744 \times 2 = 1.488$$
$$0.488 \times 2 = 0.976$$
$$0.976 \times 2 = 1.952$$
$$0.952 \times 2 = 1.904$$
$$0.904 \times 2 = 1.808$$

0.001110111

$$1.110111 \cdot 2^{-3}$$

Exponente: $\sim 3 \rightarrow 11101$
 \uparrow
 00011

0 1 1 1 0 1 1 1 0 1 1 1