

Rec verifica A

sabato 3 dicembre 2022

11:52

CONVERSIONI

$$11110011_2 = 2^0 + 2^1 + 2^4 + 2^5 + 2^6 + 2^7 = 1 + 2 + 16 + 32 + 64 + 128 = 243$$

$$BE7_{16} = 7 \cdot 16^0 + 14 \cdot 16^1 + 11 \cdot 16^2 = 3047$$

$$179 = 10110011_2$$

$$892 = 37C_{16}$$

179		1	↑
89		1	
44		0	
22		0	
11		1	
5		1	
2		0	
1		1	

892		12	↑
55		7	
3		3	

ARITMETICA

$$\begin{array}{r} 111 \\ 10001101 + \\ 1101 = \\ \hline 10011010 \end{array}$$

$$\begin{array}{r} 10001101 - \\ 1101 = \\ \hline 10000000 \end{array}$$

$$\begin{array}{r} 10001101 \times \\ 1101 = \\ \hline 110001101 \\ 10001101 // \\ 10001101 // \\ \hline 11100101001 \end{array}$$

10001101		1101
1101		1010
010010		
1101		
01011		

COMPLEMENTO A 2

29		1
14		0
7		1
3		1
1		1

$$\begin{array}{r} 011101 + \\ 100010 + \\ 1 = \\ \hline 1000000 \end{array}$$

VIRGOLA FISSA

$$\begin{matrix} 5 & 4 & 3 & 2 & 1 & 0 & -1 & -2 & -3 & -4 & -5 \\ 1 & 0 & 1 & 0 & 1 & 0 & . & 0 & 1 & 0 & 0 & 1 \end{matrix} = 42,28125$$

$$2^1 + 2^3 + 2^5 = 2 + 8 + 32 = 42$$

$$2^{-2} + 2^{-5} = \frac{1}{4} + \frac{1}{32} = \frac{8+1}{32} = \frac{9}{32} = 0,28125$$

VIRGOLA MOBILE

$$1 \quad \begin{matrix} 2 & 1 & 0 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \end{matrix} \quad 0. \dots \begin{matrix} 7 & 6 & 5 & 4 & 3 & 2 & 1 & 0 \\ 1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 \end{matrix}$$

$$2^0 + 2^1 + 2^2 = 1 + 2 + 4 = 7$$

$$2^1 + 2^3 + 2^7 = 2 + 8 + 128 = 138$$

$$- 138 \cdot 2^{-7}$$