> Information stored in memory can be : 7 Information Programs Data Non L Numeric Numeric (Names, Addresses) Stored in ASCII Integers Floating Point (Stored using IEEE 754 Frants) Real-World (Use Decimal system) Inside Computer System stored in Binary (Hex) form Signed Integers Positive Numbers stored as it is. Unsigned Integers (Only positive numbers) Negative nos stored in 2's complement form

Number Representation

Onsigned Numbers decimal equivalent $(25)_{10} = 10'_{X2} + 10'_{X5} = 25$ Decimal $(1011)_{2} = \frac{2}{8}x1 + \frac{2}{6}x0 + \frac{2}{2}x1 + \frac{2}{2}x1 = 11$ Binary octal $(161)_8 = 8^2 \times 1 + 8 \times 6 + 8 \times 1 = 113$ hexedecimal (AC) = 16xA + 16xC = 172 $(1022)_3$ $(413)_5$? $3x_1+3x_0+3x_2+3x_2$? $3x_1+3x_0+3x_2+3x_2$? $3x_1+3x_0+3x_2+3x_2$ ternary Base-5

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Binary octal conversion to (Decimal) hexadecimal

2.

 $(\chi_{k_1} \chi_{k_2} \dots \chi_2 \chi_1 \chi_0) = \chi_1^{k_1} \chi_{k_1} + \chi_1^{k_2} \chi_2 + \chi_1^{k_2} \chi_2 + \chi_1^2 \chi_2 + \chi_1^2 \chi_1 + \chi_1^2 \chi_2$

$$(113)_{10} = (161)_{8}$$

$$(172)_{10} = (AC)_{11}$$

octal: 6 Decimal $(303)_{8}$ 128+64+2+1=195Decimal 64*3 + 1×3 = 1950 Binary to Lexadecimal: (010011100101)2 (4E5)16 Verify it octal to Binary: (303)8 (011000011)2 (4E5)16 Renadecimal to Binary: (010011100101)2 octal to hexadecimal hexadecimal to octal Do it yourself