Hoating point data type Hoat (32 bit)

Double (64 bit) Hoat 32 bit Format (Single Precision) Signbet 1 -> -ve number Ex: float a; a = 24.17; 23 22 + 24.17 = 0 10000011 1000000101010000101000 Jos - renou Sign ( Exponent > ( mantissa-Make S=1 =0=+ve 127+4 no/ =131 24.17 Excess = 127 1.10000.00101011100000101000 x24 = (127) 1.100000010101110000101000 x24 = (+4) = Exponent 11000.001010110000 101000 Double 64 bit Format (Double Precision) Exponent rantissa Hot = 116tt = 526tt = 7 S=0 >+venol, S=1 - venoy

Excess = 1023

mantissa is the fraction part

Exponent = (1023+ power of 2)