Tute 7 COMP1521 24T2

Jack Robbers

content

- 2's complement
- ieee 754
- more bitwise

2's complement encode/decode

if msb is 0, same as normal conversion if msb is 1 negate and add 1.

the same forwards and backwards.

IEEE-754

$$(-1)^{sign} imes (1+frac) imes 2^{exp-127}$$

exp the 8 bits following the sign bit (as a value in the range 0..255)

frac the least significant 23 bits, interpretted as negative powers of 2. So the msb is 2^-1 , next is 2^-2 , and so on.

Good IEE-754 Calculator: pwww.h-schmidt.net/FloatConverter/IEEE754.html