Convertir en simple précision: 1664.125

0 |1000 1001

1010 0000 0000 1000 0000 000

23

1664 / 2 = 832 reste 832 / 2 = 416 reste 416 / 2 = 208 reste 208 / 2 = 104 reste 104 / 2 = 52 reste 52 / 2 = 26 reste 26 / 2 = 13 reste 13 / 2 = 6 reste 6 / 2 = 3 reste 3 / 2 = 1 reste 1 / 2 = 0 reste

$$0.125 * 2 = 0.25 < 1$$
 0 $0.25 * 2 = 0.5 < 1$ 0 $0.5 * 2 = 1$ 0 $0.5 * 2 = 1$

$$0.125_{10} = 0.001_2$$

$$1664.125_{10} = 110\ 1000\ 0000.001_2$$

110 1000 0000.001₂ = 1.1010 0000 0000
$$1 \times 2^{10}$$

$$17_{10} = 110\ 1000\ 0000_2$$

$$e = 10 + 0x7F = 0x89 = 1000 \ 1001_{2}$$

b = 0x7F= 127

Convertir en décimal

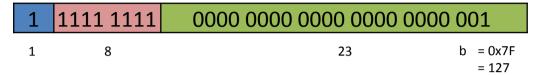
= 127

- signe = $0 \rightarrow positif$
- exposant = $0x82 \rightarrow 0x82 0x7F = 3$
- mantisse = 1.100011_2

• Résultat =
$$1.100011_2 \times 2^3 = 1100.011$$

= $C.6_{16}$
= $12 + 6 * 16^{-1}$
= 12.375

Convertir en décimal



- signe = $1 \rightarrow$ négatif
- exposant = 0xFF → cas spécial
- mantisse $!= 0 \rightarrow NaN$