1) Big Endian and 3-byte

$29,109375 = 1,11010000111 \times 2^{4}$

fraction

$Bias = 2^{10-1} - 1 = 511$

$E = exp - Bias$

$4 = exp - 511 \Rightarrow exp = 515$

$= 1000000011$

exp

0 1000000011 11010000111000

4 0 7 A 3 8

$-63 = -1,\ 11111 \times 2^5$

$E = exp - Bias \Rightarrow exp = 516$

1 1000000 1001111 0000 0000

C 0 9 F 0 0

---

2) Little End. – 1 byte

$-0,1875 = -0,0011 = -1,1 \times 2^{-3}$

$Bias = 2^{3-1} - 1 = 3$

$-3 = exp - 3 \Rightarrow exp = 0$ (denorm!)

The # should be: $-0,11 \times 2^{-2}$

1 000 1100 $\Rightarrow$ 8C

in fraction

3) Big Endian - 3 byte

1628,953125

= 11001011100,111101

= $1,10010111001111101 \times 2^{10}$

round up

= $1,10010111010000 \times 2^{10}$

fraction

Bias = 511

E = exp - Bias

10 = exp - 511 ⇒ exp = 521

⇒

4 1 3 2 E 8