

3.23

63.25

63 binary = 0011 1111

0.25 binary = 0.01

$111111 + 0.01 = 111111.01 = 1.1111101 \times 2^5$

Sign = 0

Fraction = 1111 1010 0000 0000 0000 000

Exponent = $127 + 5 = 132 = 1000\ 0100$

0 1000 0100 1111 1010 0000 0000 0000 000

0100 0010 0111 1101 0000 0000 0000 0000

0x427D0000

3.24

63.25

63 binary = 0011 1111

0.25 binary = 0.01

$111111 + 0.01 = 111111.01 = 1.1111101 \times 2^5$

Sign = 0

Fraction = 1111 1010 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000

Exponent = $1023 + 5 = 1028 = 100\ 0000\ 0100$

0 100 0000 0100 1111 1010 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000

0100 0000 0100 1111 1010 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000

0x404FA00000000000