$$sign = bit_{31}$$

$$S = (-1)^{sign}$$

$$E = \sum_{n=0}^{7} bit_{(23+n)} \cdot 2^{n}$$

$$F = \sum_{n=1}^{23} bit_{(23-n)} \cdot 2^{-n}$$

$$value = S \cdot 2^{E-127} \cdot (1 + F)$$