$$sign = bit_{31}$$

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

$$number = \sum_{n=1}^{p+k} bit_{n-1} \cdot 2^{n-p}$$

$$E = \lfloor number \rfloor$$

$$F = number \mod 1$$

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