$$
\begin{aligned}
sign &= bit_{31} \\
S &= (-1)^{sign} \\
number &= \sum_{n=1}^{p+k} bit_{n-1} \cdot 2^{n-p} \\
E &= \lfloor number \rfloor \\
F &= number \bmod 1 \\
value &= S \cdot 2^{E-bias} \cdot (1+F)
\end{aligned}
$$