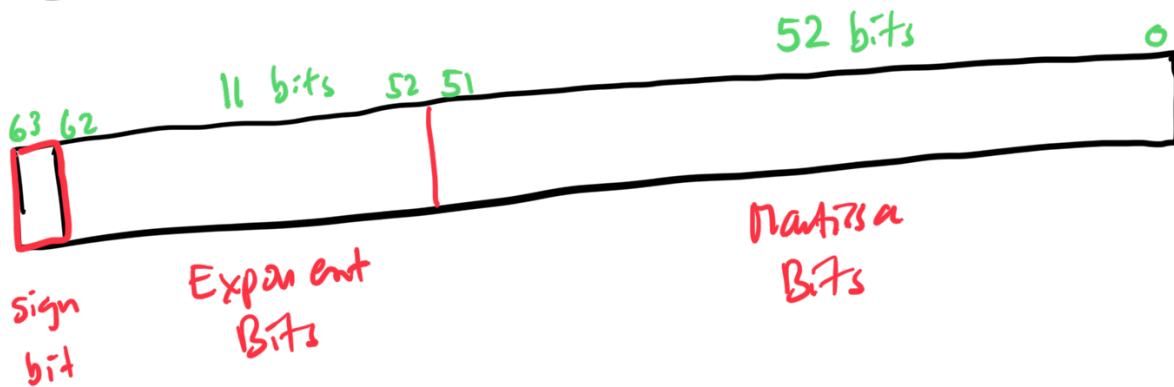


Double Precision Floating Pt.

64 bits (IEEE 754)



$$\text{real value (base 10)} = (-1)^{\text{sign}} \left(1 + \sum_{i=1}^{52} b_{52-i} 2^{-i} \right) \times 2^{e-1023}$$

Largest #



$$2^{2646} - 1 - 1$$

$$= 2^{2646}$$

$$2 \times 2^{2646-1023}$$

edit

$$0\ 10000000000\ 1001001000011111101101010100010001000010110100011000_2 = 4009\ 21FB\ 5444\ 2D18_{16} = \pi$$