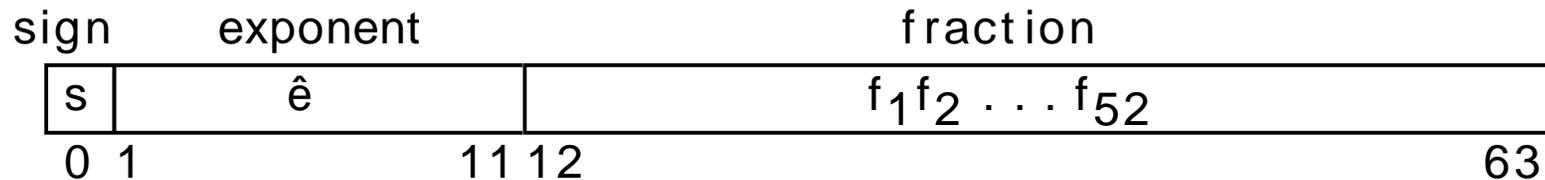


Fig 6.16 IEEE Standard, Double-Precision, Binary Floating Point Format



- Exponent bias for normalized numbers is 1023
- The denorm biased exponent of 0 corresponds to an unbiased exponent of -1022
- Infinity and NaNs have a biased exponent of 2047
- Range increases from about $10^{-38} \leq |x| \leq 10^{38}$ to about $10^{-308} \leq |x| \leq 10^{308}$