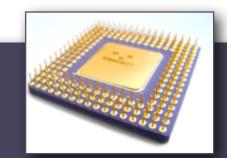


Topics Covered in Video/Notes:



- Floating-point representation
 - ▶ Sign, significand (mantissa), biased exponent
 - $(-1)^{sign_bit} \times 1.significand_bits \times 2^{exponent_bits-bias}$
 - ▶ IEEE 754 single- and double-precision representations

	Sign Bits	Exponent Bits	Significand (fractional part)	Total Bits	Bias
Single-precision	1	8	23	32	127
Double- precision	1	11	52	64	1023

▶ Special cases: $\pm \infty$, NaN, denormalized numbers