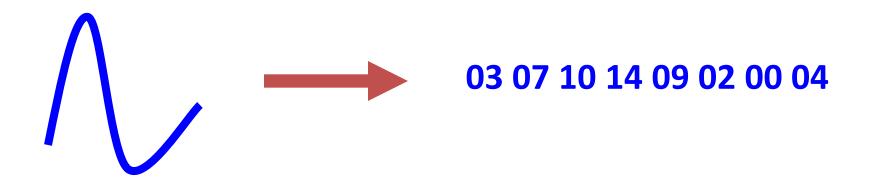
Analog to Digital Converters

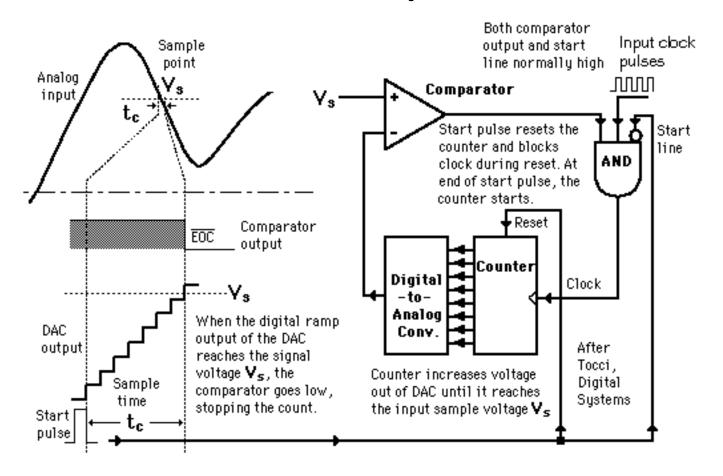
Representing a continuously varying physical quantity by a sequence of discrete numerical values.



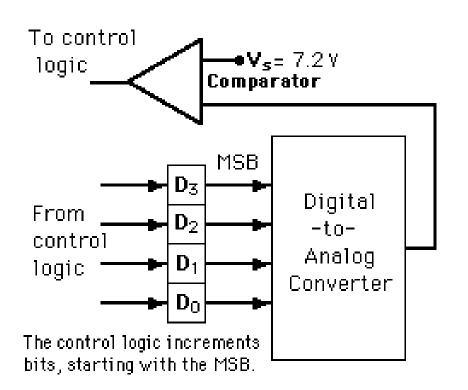
Conversion Methods

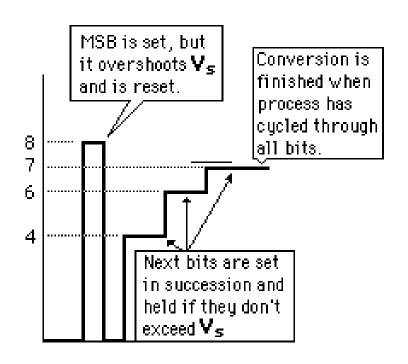
Ladder Comparison or Ramp Successive Approximation Flash or parallel Comparison Voltage to frequency Dual Slope

Ladder Comparison



Successive Approximation





Flash Comparison

If N is the number of bits in the output word....

Then 2^N comparators will be required.

With modern microelectronics this is quite possible, but will be expensive.

