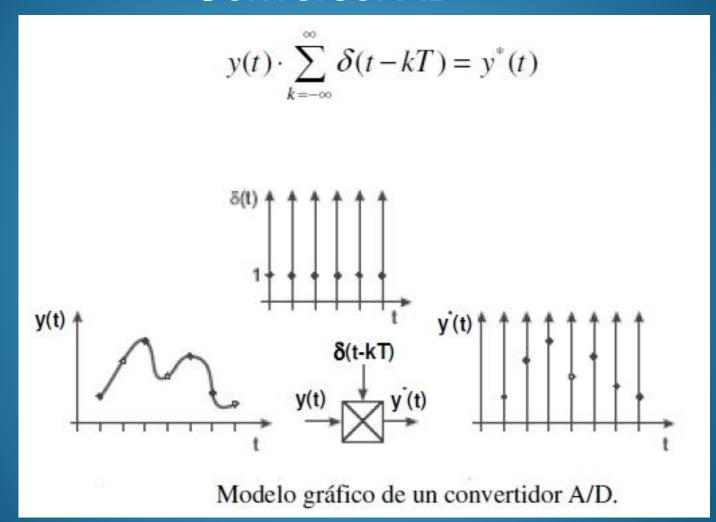


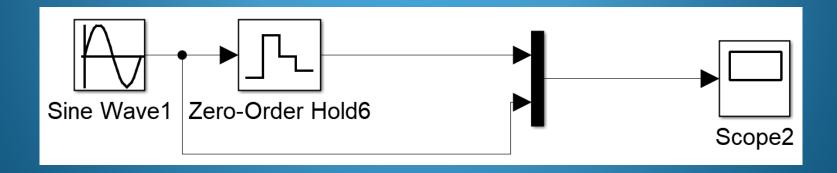


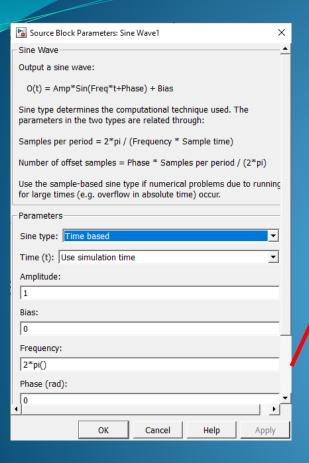
TECNICAS DIGITALES III

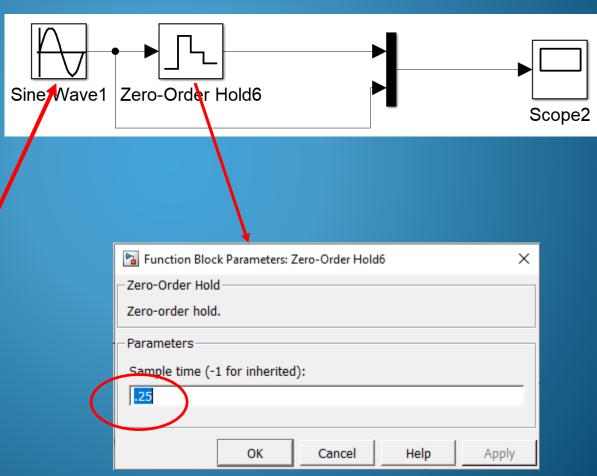


Muestreo: Es la conversión de una señal en tiempo continuo, a una señal en tiempo discreto, obtenida tomando muestras de la señal de tiempo continuo en instantes de tiempo discreto.

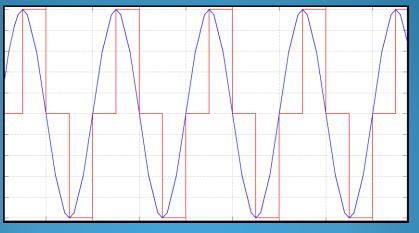
$$xa(t) \rightarrow xa(nT) \rightarrow x(n)$$



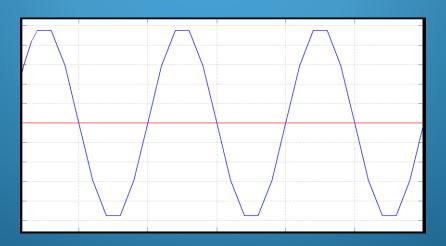




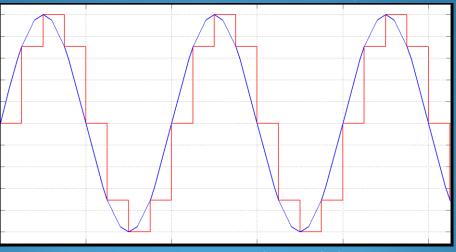
Tiempo de muestreo 0.25 seg



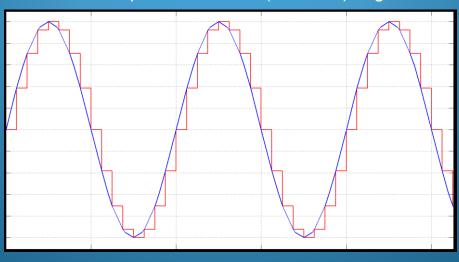
Tiempo de muestreo 0.5 seg



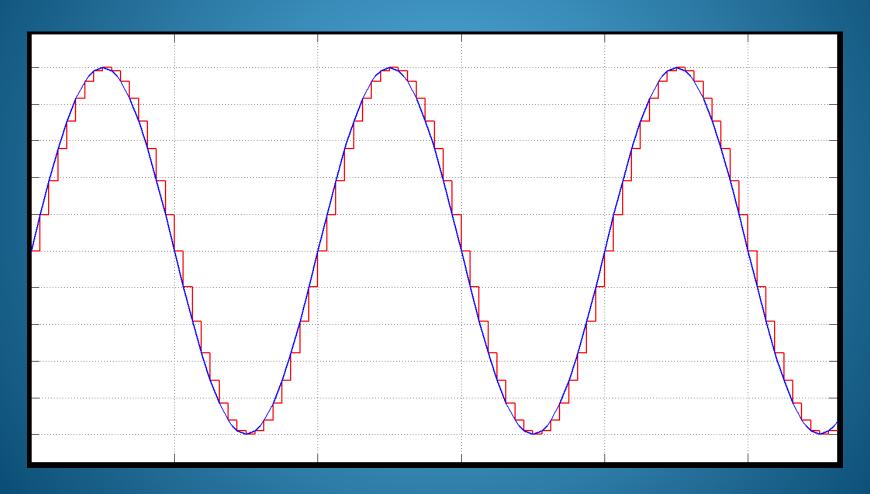
Tiempo de muestreo 0.125 seg



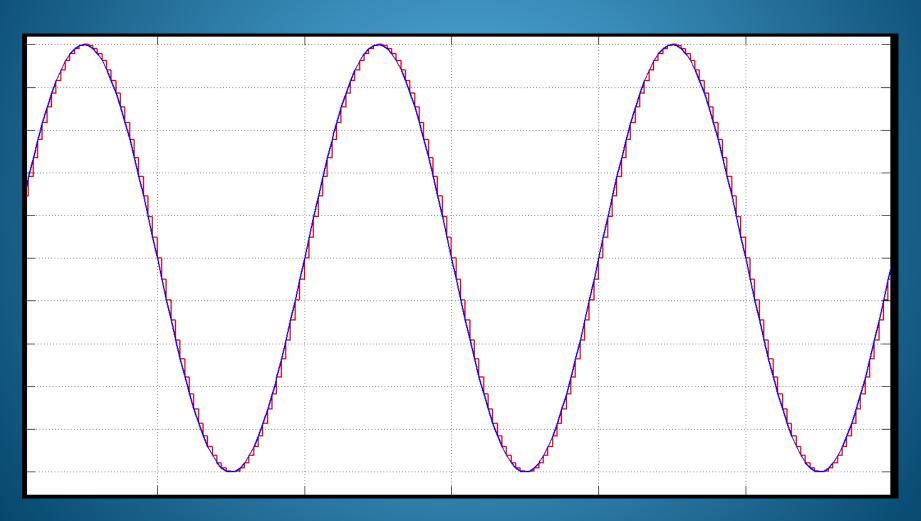
Tiempo de muestreo (0.125 / 2) seg



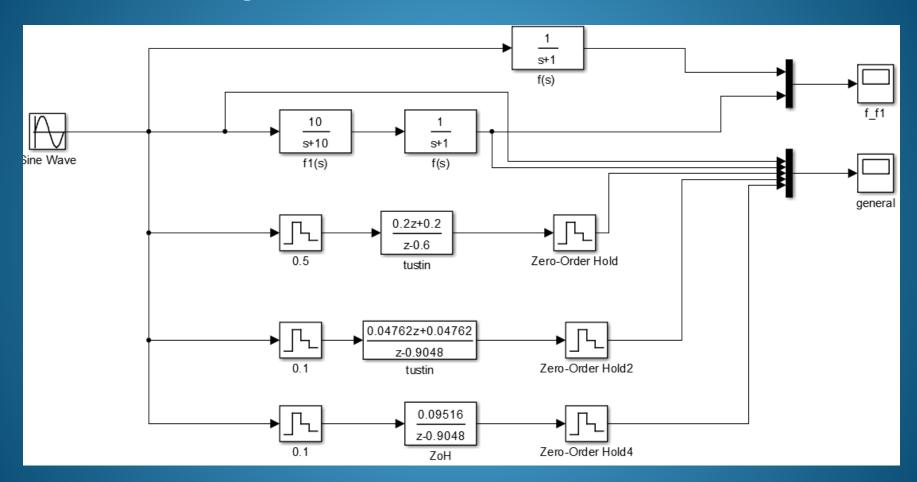
Tiempo de muestreo (0.125/4) seg



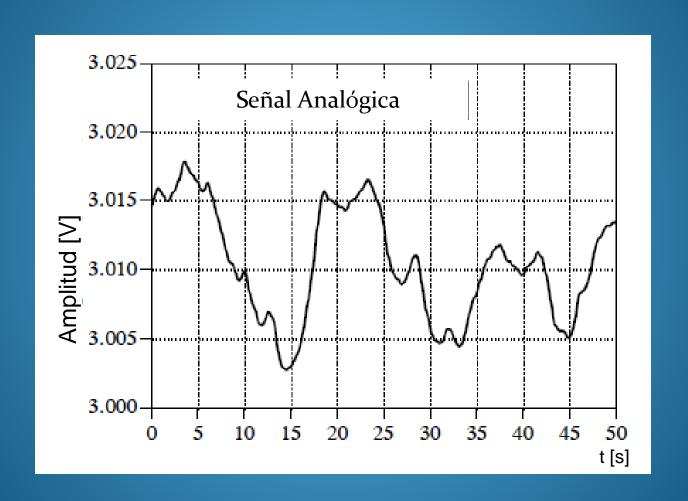
Tiempo de muestreo (0.125 / 8) seg

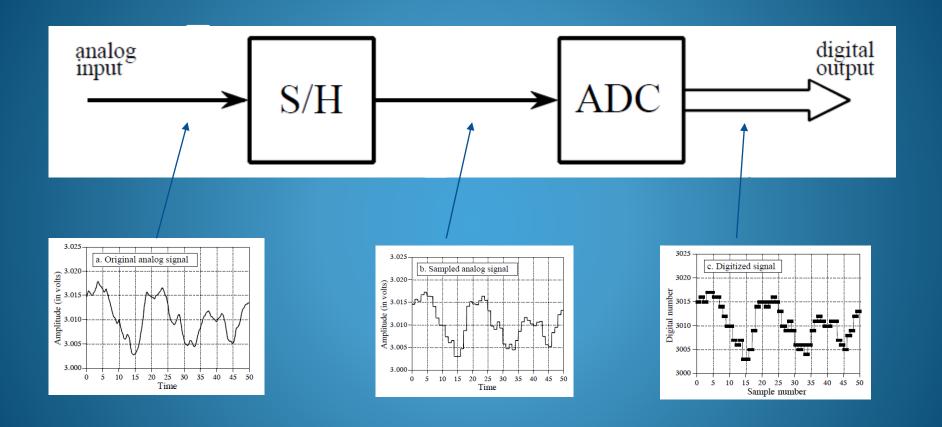


Digitalización de sistemas

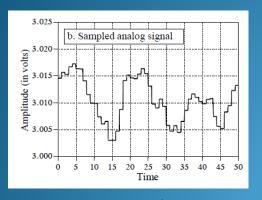


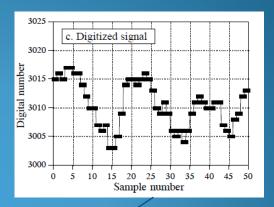
Conversor Analógico Digital



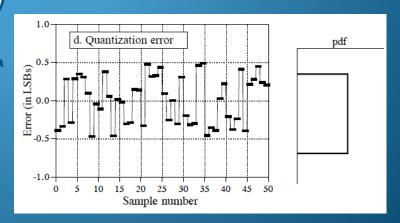


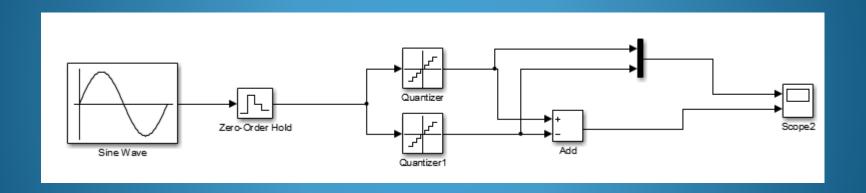
Conversor Analógico Digital

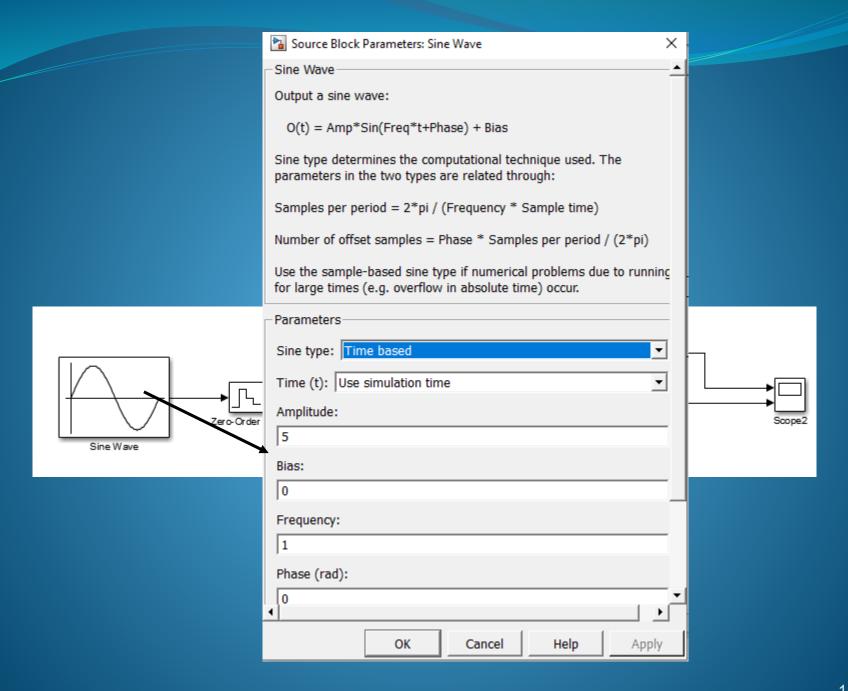


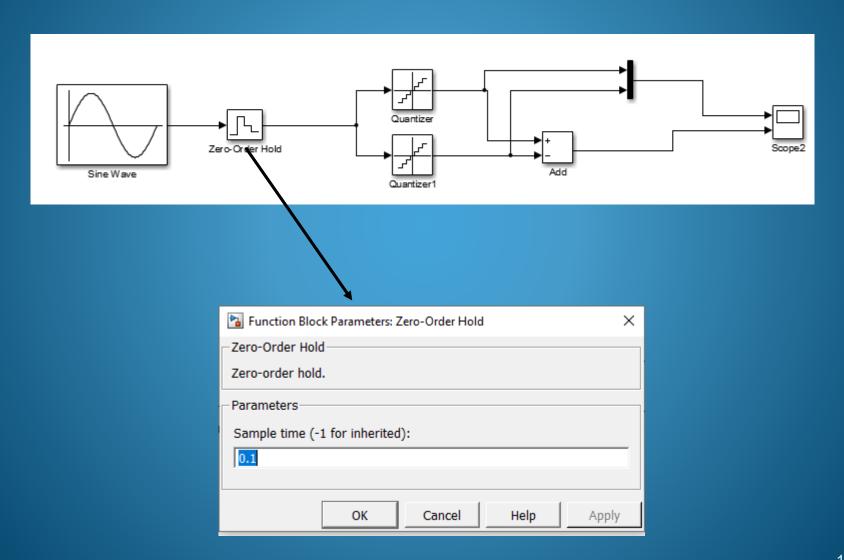


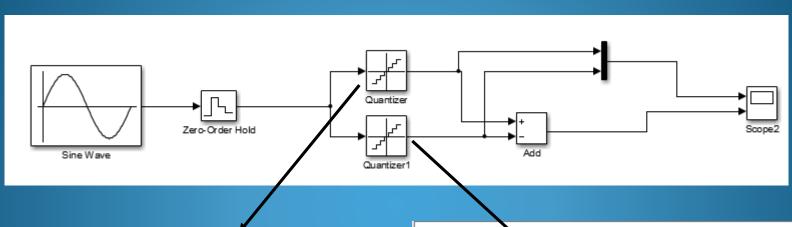


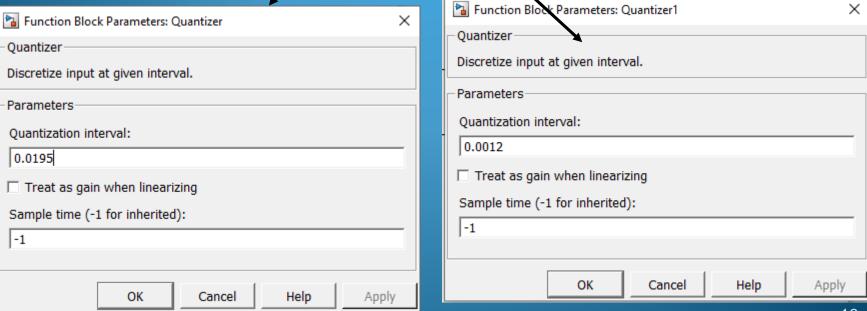


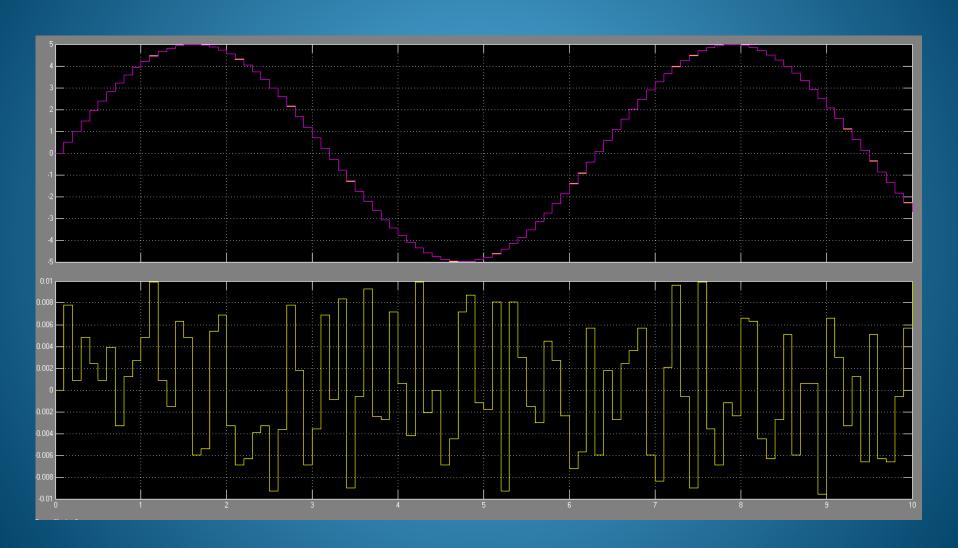






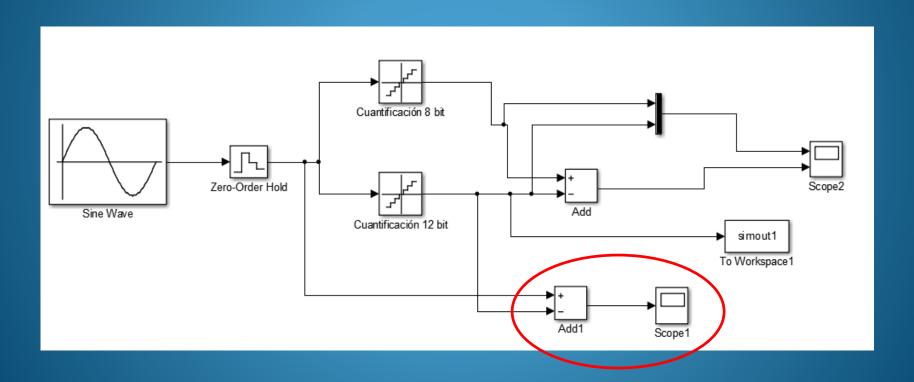






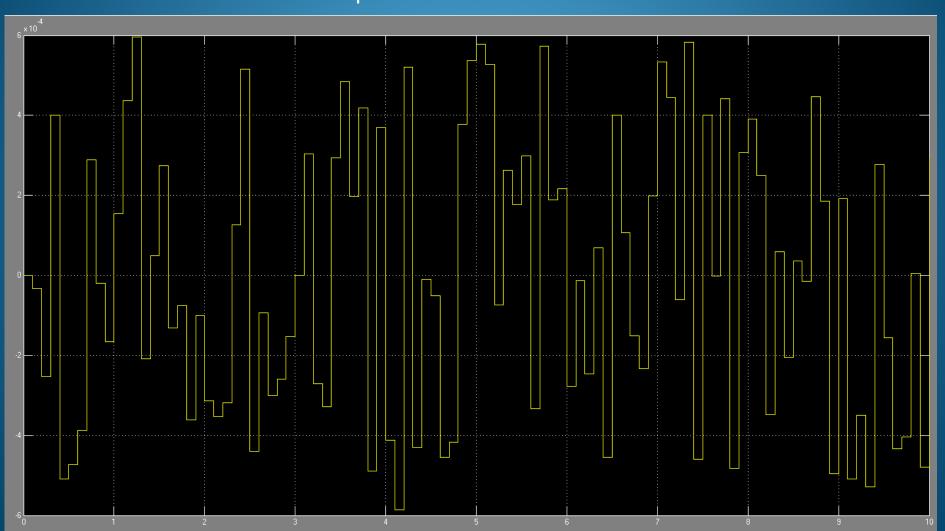
Error de cuantificación 12 bit

Para una señal de 5V el paso es de 0,0012V o 1.2mV.

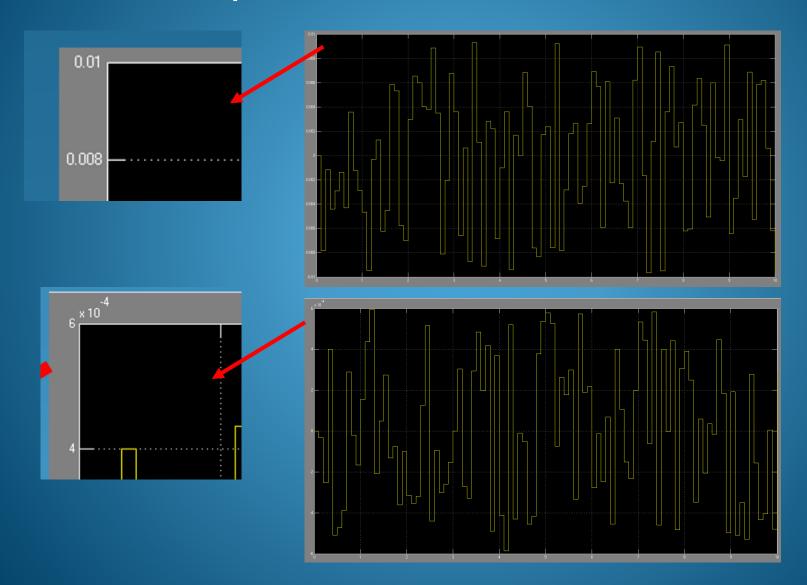


Error para cuantificación de 12 bits

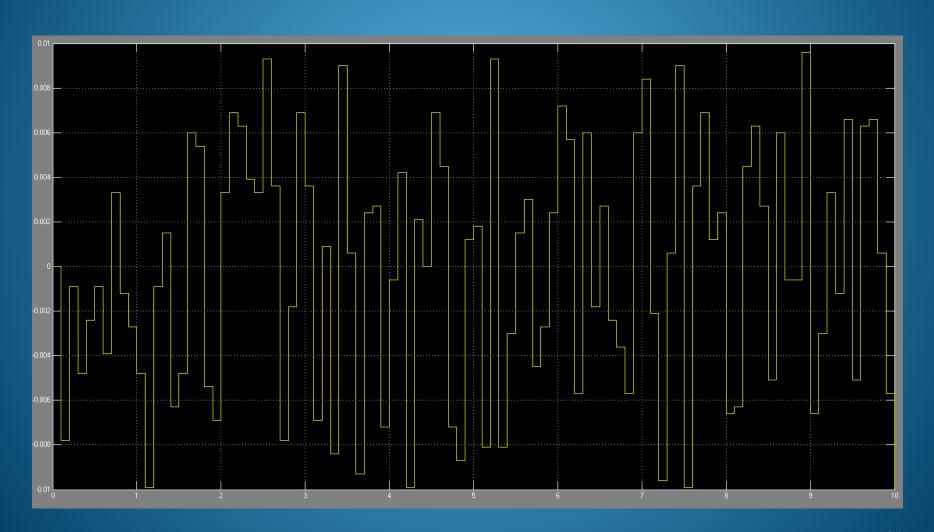
El error se presenta como un ruido blanco



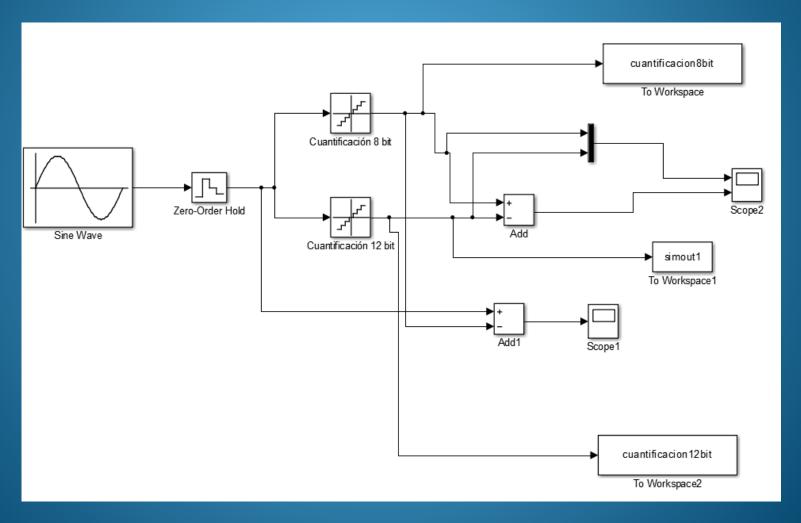
Error para cuantificación de 8 bits



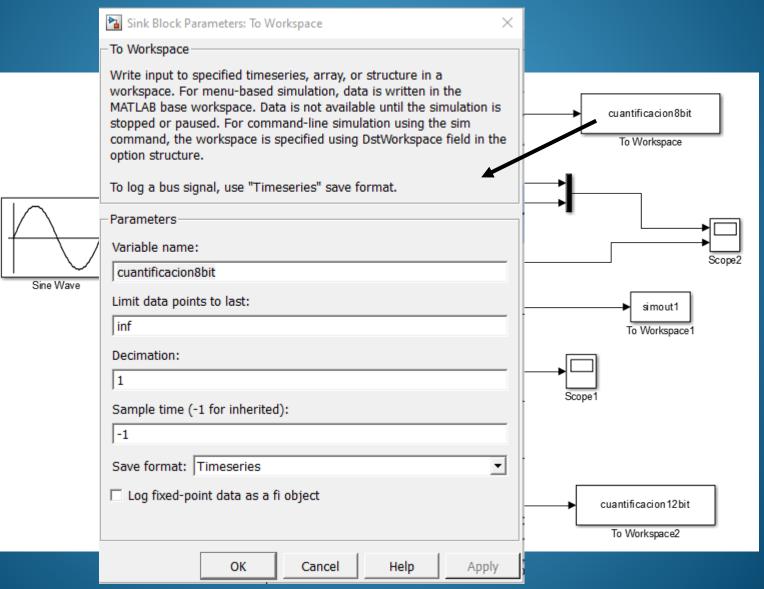
Diferencia entre los errores de cuantificación



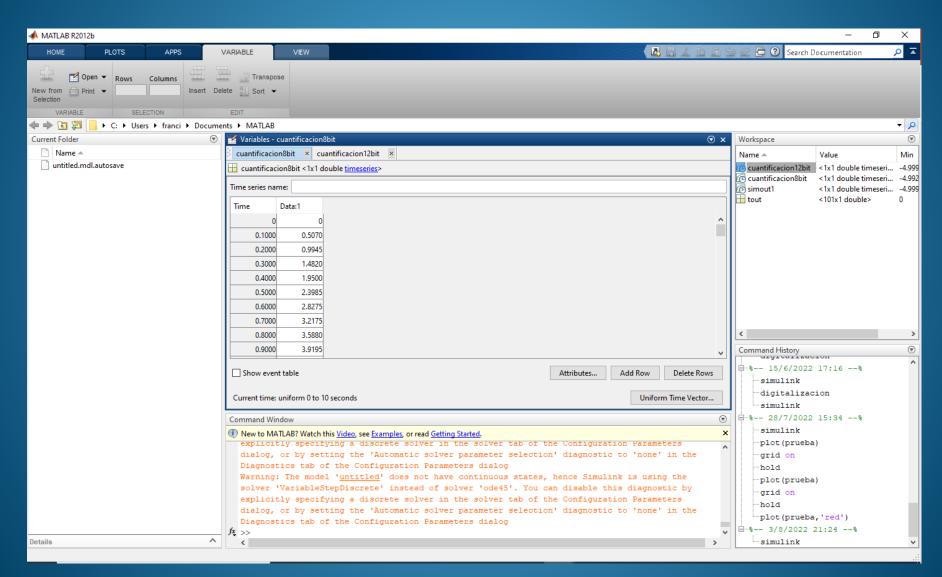
Valores numéricos de la cuantificación



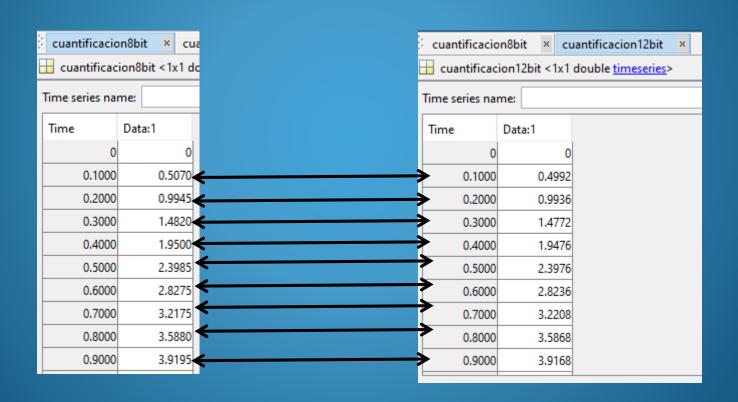
Valores numéricos de la



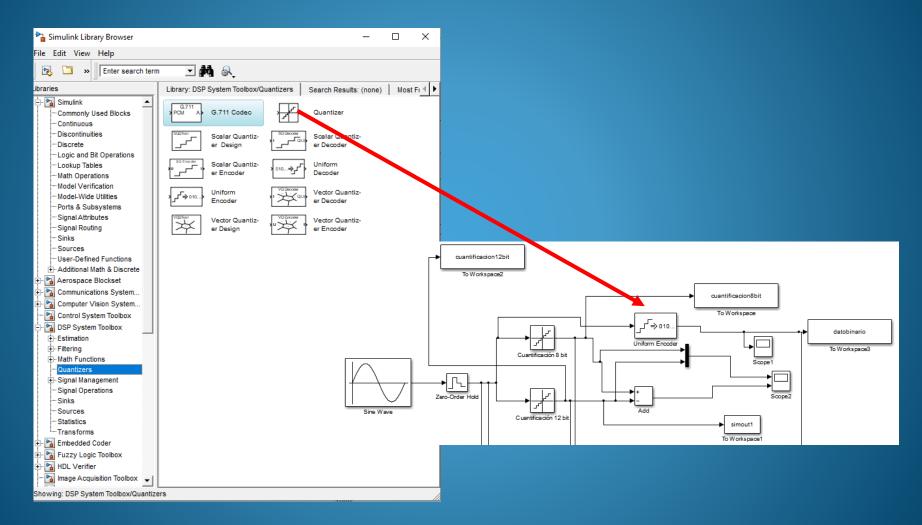
Valores numéricos de la cuantificación



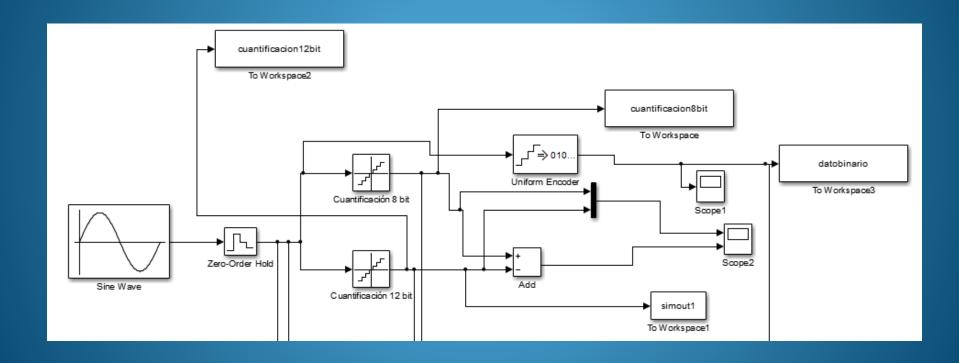
Valores numéricos de la cuantificación



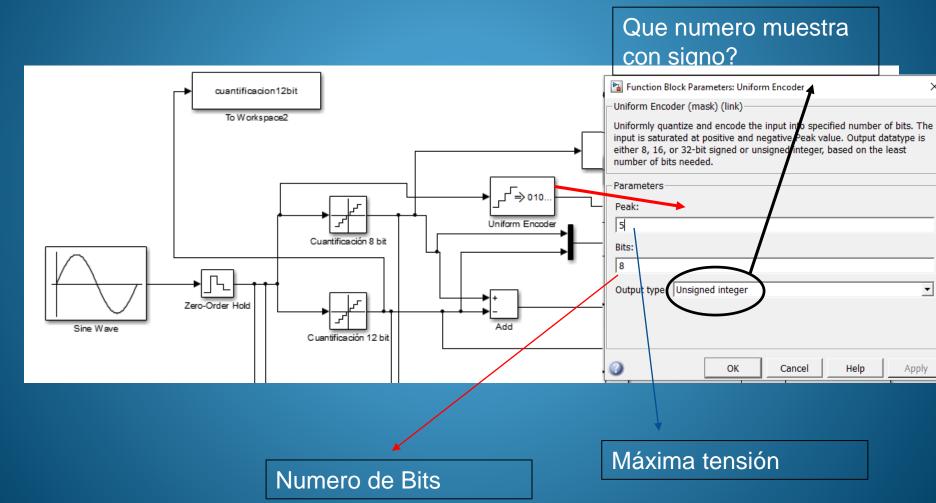
Biblioteca DPS



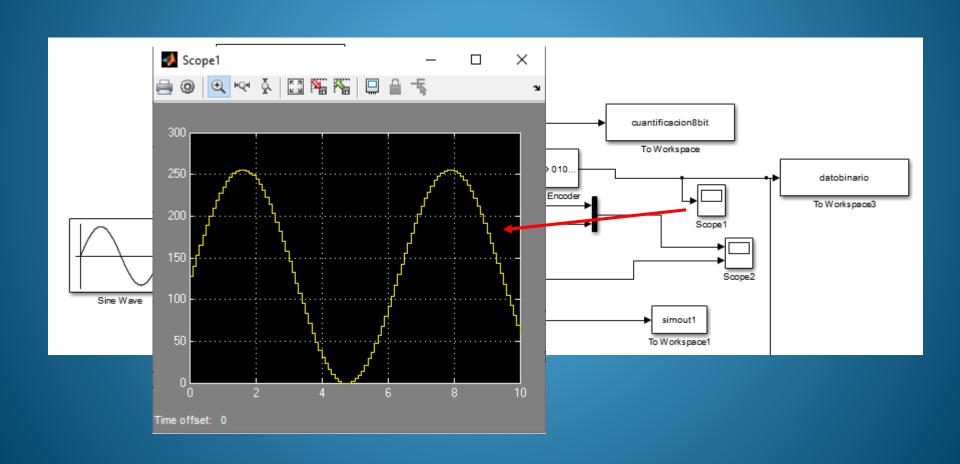
Cuantificación con la biblioteca DSP



Cuantificación con la biblioteca DSP



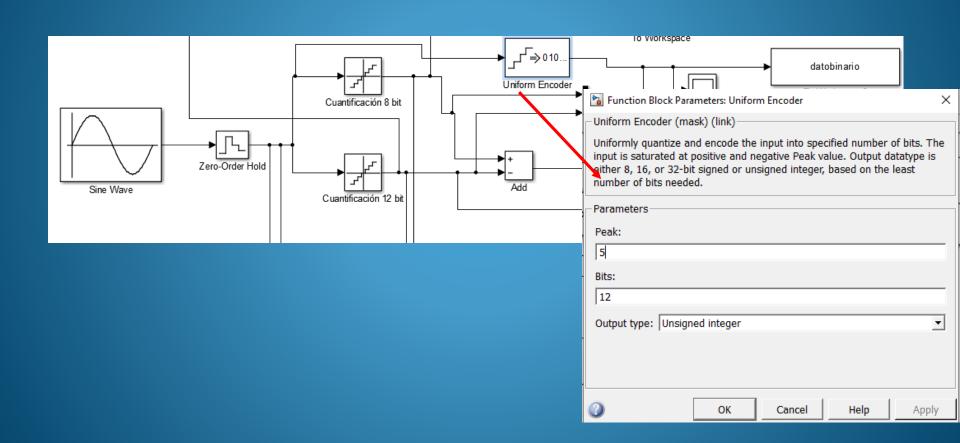
Cuantificación de 8 bits con la librería DSP



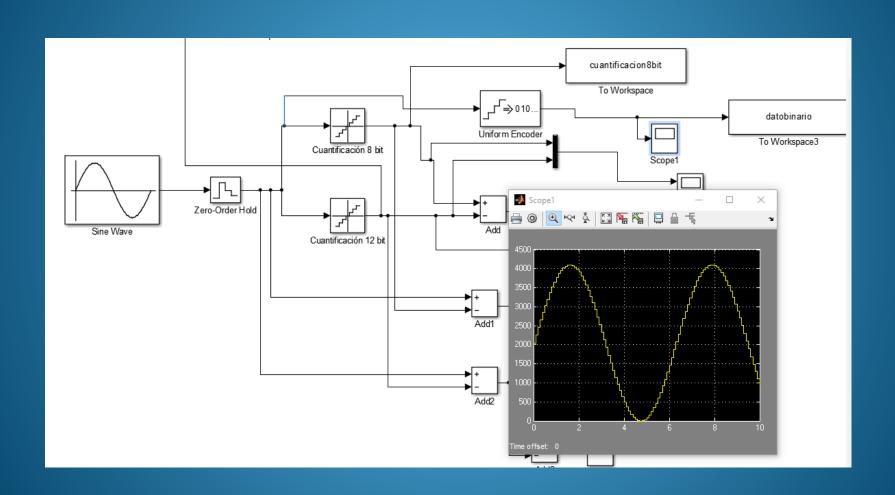
Cuantificación Dato binario de 8 bits



Cuantificación de 12 bits



Cuantificación de 12 bits



Cuantificación de 12 bits

