## Sample Period

## Main Program Loop

Set the A/D Converter to the audio input **AN1 ACQ Time** Configure and Start Timer 1 Calculate address of delayed sample by subtracting delay value from current address Read the delayed sample from the RAM Initiate the A/D conversion of the audio input **AN1 Conversion Time** Process the sample read from RAM for output to the SPI DAC Write the sample to the DAC Wait for A/D Conversion of Audio Input to Complete Set the A/D Converter to the Delay Input **AN2 ACQ Time** Store the sample of the audio input to the RAM buffer Store the sample of the audio input to the RAM buffer Increment the RAM buffer address Initiate the A/D conversion of the delay input **AN2 Conversion Time** Wait for A/D Conversion of Audio Input to Complete Read Range Setting Inputs and Process **Delay Reading Accordingly** Store Delay Value for use in next loop Wait for Sampling to Complete