```
#from pynq.overlays.base import BaseOverlay
        #from pyng.lib.arduino.arduino analog import Arduino Analog
        #import matplotlib.pvplot as plt
        #from time import sleep
        #ol = BaseOverlay('base.bit')
        #xadc = Arduino Analog(ol.ARDUINO, [5])
        # Select the sampling interval in the unit of ms.
        #xadc.set log interval ms(1)
        #xadc.start Log()
        # Wait for stacking data.
        #sleep(1)
        \#v = xadc.qet log()
        # print(v[0])
In [2]:
        import time
        from pyng.overlays.base import BaseOverlay
        base = BaseOverlay("base.bit")
        from pynq.lib.arduino import Arduino Analog
        from pynq.lib.arduino import ARDUINO GROVE A1
        analog0 = Arduino Analog(base.ARDUINO,ARDUINO GROVE A1)
        a = []
        t start = time.time()
        t end = time.time() + 1
        while time.time() < t end:</pre>
             a.append(analog0.read()[0])
In [4]:
        #%matplotlib inline
        import matplotlib.pyplot as plt
        from matplotlib.legend handler import HandlerLine2D
        plt.rcParams['figure.figsize'] = [10, 12]
        plt.rcParams['figure.dpi'] = 100 # 200 e.g. is really fine, but slower
        #line1, = plt.plot(range(len(a)), a,
                            'ro', label="Voltage on ADC")
        #plt.title('Analog to Digital Converter')
        #plt.axis([0, len(a), 0.0, 3.3])
        #plt.xlabel('Sample number')
        #plt.ylabel('Voltage')
        \#plt.legend(loc=4,bbox\ to\ anchor=(1,-0.3),
                     ncol=2, borderaxespad=0.,
        #
                     handler map={line1: HandlerLine2D(numpoints=1),
        #
                                  })
        #plt.show()
        #plt.savefig('adc.pdf', bbox inches='tight')
```

In [1]: