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In [ ]: from pyng import Overlay
         ol=Overlay("pwm pulser2.bit")
In [2]: from pyng import MMIO
         RANGE = 8 # Number of bytes; 8/4 = 2x 32-bit locations which is all we need for
         duty address = ol.ip dict['axi gpio duty']['phys addr']
 In [3]:
         duty register = MMIO(duty address, RANGE)
         # Write 0x00 to the tri-state reaister at offset 0x4 to configure the IO as outp
         duty register.write(0x4, 0x0) # Write 0x0 to location 0x4; Set tri-state to outp
In [4]:
         band address = ol.ip dict['axi gpio band']['phys addr']
         band register = MMIO(band address, RANGE)
         # Write 0x00 to the tri-state reaister at offset 0x4 to configure the IO as outp
         band register.write(0x4, 0x0) # Write 0x0 to Location 0x4; Set tri-state to outp
         pulsecnt address = ol.ip dict['axi gpio pulsecnt']['phys addr']
In [ ]:
         pulsecnt register = MMIO(band address, RANGE)
         # Write 0x00 to the tri-state register at offset 0x4 to configure the IO as outp
         pulsecnt register.write(0x4, 0x0) # Write 0x0 to Location 0x4; Set tri-state to
 In [5]: flags address = ol.ip dict['axi gpio flags']['phys addr']
         flags register = MMIO(flags address, RANGE)
         # Write 0x00 to the tri-state register at offset 0x4 to configure the IO as outp
         flags register.write(0x4, 0x0) # Write 0x0 to location 0x4; Set tri-state to out
In [6]:
         def duty(duty):
             duty register.write(0x00, duty)
         def dutypct(duty):
             duty register.write(0x00, round((0x1F*2)/(100/duty)))
         def band(band):
             band_register.write(0x00, band)
         def pulsecnt(pulsecnt):
             pulsecnt register.write(0x00, pulsecnt)
         def enable(enable):
             if enable:
                 flags_register.write(0x00, 1)
                 flags register.write(0x00, 0)
In [ ]:
         enable(True)
         dutypct(50)
         band(5)
In [16]:
        duty(0b01111)
In [19]: dutypct(50)
In [12]:
         band(5)
In [11]: enable(False)
In [ ]:
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