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# -- Configuration Options for PhyPiDAQ
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# -- configuration files for hardware devices
#
#DeviceFile: config/ReplayConfig.yaml      # data from File
#optional:
#DeviceFile: config/ToyDataConfig.yaml    # simulated data

# other options(requires connected hardware):
#DeviceFile: config/ADS1115Config.yaml    # 16 bit ADC, I2C bus
#DeviceFile: config/MCP3008Config.yaml    # 10 bit ADC, SPI bus
#DeviceFile: config/groveADCCConfig.yaml  # 12 bit ADC on grove RPI
shield
#DeviceFile: config/MCP3208Config.yaml    # 12 bit ADC, SPI bus
#DeviceFile: config/PSCConfig.yaml        # PicoTechnology USB scope
#DeviceFile: config/PSCConfig2000.yaml    # PicoTechnology USB scope
220xA
#DeviceFile: config/MAX31865Config.yaml   # Pt 100 sensor
#DeviceFile: config/GPIOCCount.yaml       # frequency count
#DeviceFile: config/DS18B20Config.yaml    # digital temperature
sensor
#DeviceFile: config/MAX31855Config.yaml   # thermo element
#DeviceFile: config/BMP180Config.yaml     # pressure/temperature
sensor
#DeviceFile: config/INA219Config.yaml     # Voltage/Current sensor
#DeviceFile: config/MMA845xConfig.yaml    # Accelerometer
#DeviceFile: config/MLX90393Config.yaml   # Magnetometer

## an example of multiple devices
DeviceFile: [config/MLX90393Config.yaml, config/INA219Config.yaml ]

#
# -- configuration options for Channels
#

# possibility to overwrite Channel Limits obtained from device
config
ChanLimits:
- [0., 10.]    # chan 0
- [0., 0.5]   # chan 1
##- [0., 10.] # chan 2

# calibration of channel values
# - null      or - <factor> or - [ [ <true values> ], [ <raw
values> ] ]
#ChanCalib:
# - 1.                # chan0: simple calibration factor
# - [ [0.,1.], [0., 1.] ] # chan1: interpolation: [true]([<raw>]
)
# - null              # chan2: no calibration

# apply formulae to (calibrated) channel values
ChanFormula:
- sqrt(c0*c0+c1*c1+c2*c2)-2.24 # chan0
- c3                # chan1

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