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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/MCP3208Config.yaml    # 12 bit ADC, SPI bus
#DeviceFile: config/PSConfig.yaml        # PicoTechnology USB scope
#DeviceFile: config/PSConfig2000.yaml    # PicoTechnology USB scope
220xA
#DeviceFile: config/MAX31865Config.yaml   # Pt 100 sensor
#DeviceFile: config/GPIOCount.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: [ADS1115Config.yaml, VL53LxConfig.yaml]

#
# -- configuration options for Channels
#
ChanNams: [F, d]          # names for channels
#ChanUnits: ['a.U.', 'a.U.']      # units for channels
#ChanLabels: [F, d]          # names for channels
ChanUnits: [N, mm]        # units for channels
ChanColors: [darkblue, sienna]    # channel colours in display

# eventually overwrite Channel Limits obtained from device config
ChanLimits:
- [-0.2, 0.2]    # chan 0
- [-50., 50.]   # chan 1
## - [0., 1.]    # chan 2

# calibration of channel values
# - null      or - <factor> or - [ [ <true values> ], [ <raw
values> ] ]
ChanCalib:
- [ [-0.1, 0,0.1], [1.71, -2.011, 2.315] ]    # chan1:
interpolation: [true]([<raw>] )
- null          # chan1: no calibration

# apply formulae to (calibrated) channel values
ChanFormula:
- null # chan0

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- 435-c1          # chan1
# - null          # chan2 : no formula

#
# -- configuration options for graphical display
#
Interval: 0.05    # logging interval
NHistoryPoints: 80 # number of points used in history
buffer
#DisplayModule: DataLogger # history of channel signals
DisplayModule: DataGraphs # text, bar-graph, history and xy-view
Title: "Mass_Spring_Oscilltor" # display title
XYmode: true      # enable/disable XY-display
## if more than two channels active:
#Chan2Axes: [0, 1, 0] # assign channels to axes
xyPlots:         # define which axes to show
- [1, 0]         # in xy-plot
# - [0, 2]
# - [1, 2]

#
# -- configuration options for output to file
#
DataFile: testfile.csv # file name for output file,
#DataFile: null        # null to disable
CSVseparator: ';'     # field separator, set to ';' for
German Excel

# enable buffering of latest data (depth NHistoryPoints from above)
#bufferData: PhyPiData # file name to track latest data and
eventually
#bufferData: null      # store them, or null to switch off

# control status LEDs
#RunLED: 20           # display run status on GPIO pin 20
#ReadoutLED: 21      # display readout on GPIO pin 21
```