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# -- Configuration Options for PhyPiDAQ
# -----

# demonstration: read data from file and display them

#
# -- 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/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/VL53LxConfig.yaml    # ToF distance sensor

## an example of multiple devices
#DeviceFile: [config/ADS1115Config.yaml, config/GPIOCOUNT.yaml]

#
# -- configuration options for Channels
#
#ChanLabels: ['X1', 'X2']                # names for channels
ChanUnits: ['mm']                        # units for channels
#ChanLabels: [U, U]                      # names for channels
#ChanUnits: [V, V]
ChanNams: [s]                            # units for channels
ChanColors: [darkblue, sienna]          # channel colours in display

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

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#ChanFormula:
# - c0 + c1 # chan0
# - c1      # chan1
# - null    # chan2 : no formula

#
# -- configuration options for graphical display
#
NHistoryPoints: 500 # number of points used in history
buffer
#DisplayModule: DataLogger # history of channel signals
DisplayModule: DataGraphs # text, bar-graph, history and xy-view
Title: "Spring_Mass50g " # display title
#XYmode: false # enable/disable XY-display
## if more than two channels active:
#Chan2Axes: [0, 1, 0] # assign channels to axes
#xyPlots: # define which axes to show
# - [0, 1] # in xy-plot
# - [0, 2]
# - [1, 2]

#
# -- parameters for data taking
#
Interval: 0.05 # logging interval
startActive: true # start in "active" mode
#
# -- 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

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