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# -- Configuration Options for PhyPiDAQ
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# 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/PSCConfig.yaml        # PicoTechnology USB scope
#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/VL53LxConfig.yaml     # ToF distance sensor

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

#
# -- configuration options for Channels
#

# possibility to overwrite Channel Limits obtained from device
config
ChanLimits:
- [0., 2.5] # chan 0 for U
- [0., 0.2] # chan 1 for I
## - [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
ChanFormula:
- c0 # chan0
- c1/0.47 # chan1 I in mA
# - null # chan2 : no formula

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#
# -- configuration options for graphical display
#
Title: "Data from File"          # display title
#ChanLabels: ['X1', 'X2']        # names for channels
#ChanUnits: ['a.U.', 'a.U.']    # units for channels
#ChanLabels: [U, U]             # names for channels
ChanUnits: [V, mA]              # units for channels
ChanNams: [U, I]                # names for channels
ChanColors: [darkblue, sienna]  # channel colours in display

#NHistoryPoints: 120            # number of points used in history
buffer
#DisplayModule: DataLogger      # history of channel signals
#DisplayModule: DataGraphs     # text, bar-graph, history and xy-
view
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
- [0, 1]     # in xy-plot
# - [0, 2]
# - [1, 2]

#
# -- parameters for data taking
#
Interval: 0.1                  # 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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