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DvG_QDeviceIO.py
v0.0.9
```

Dependencies: numpy PyQt5 DvG debug functions

```
<<PyQt5.QtCore.QObject>>
ODeviceIO
 <<PyQt5.QtCore.pyqtSignal>>
 signal DAQ updated()
 signal send updated()
 signal DAO paused()
 signal connection lost()
  init ()
 attach device(dev)
 create worker DAQ(**kwargs)
 create worker send(**kwargs)
 start(
    DAO priority: PyOt5.OtCore.OThread.Priority,
    send priority: PyQt5.QtCore.QThread.Priority)
 quit()
 pause DAQ()
 unpause DAQ()
 wake up DAQ()
 send(instruction, pass args)
 add to send queue(instruction, pass args)
 process send queue()
             : {user supplied device class}
 dev
             : str
   .name
             : PyQt5.QtCore.QMutex()
   .mutex
   .is alive : bool
 worker DAO : Worker DAO()
 worker send : Worker send()
 update counter DAQ
 update counter send
 not alive counter DAQ
 obtained DAQ interval ms
 obtained DAQ rate Hz
```

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<<Pv0t5.0tCore.00bject>>
Worker send
   init (
    adev
                  : ODeviceIO()
    jobs function : function,
    DEBUG
                  : bool)
 add to queue(instruction, pass args)
 process queue()
 queued_instruction(instruction, pass_args)
 qdev
               : QDeviceIO()
 dev
               : {user supplied device class}
 jobs function : None | function
 DEBUG
               : bool
 DEBUG color : None | str
```

<<enum. Tnt Fnum>>

DAQ trigger

CONTINUOUS

INTERNAL TIMER

SINGLE SHOT WAKE UP

```
<<PyQt5.QtCore.QObject>>
Worker DAQ
 init (
                   : QDeviceIO()
    adev
                   : DAQ trigger,
    DAO trigger
    DAQ function
                  : function.
    DAO interval ms : int,
    DAQ timer type : PyQt5.QtCore.Qt.TimerType,
    critical not alive count : int,
    calc DAO rate every N iter : int | str,
    DEBUG
                              : bool)
 pause()
 unpause()
 wake up()
              : ODeviceIO()
 adev
              : {user supplied device class}
 dev
 DAO function : function
 critical not alive count : int
 calc DAQ rate every N iter : int
 DEBUG
              : bool
 DEBUG color : None | str
```