```
ProcessingUnit
# profile
# transaction
+ ProcessingUnit()
+ ~ProcessingUnit()
+ initialize()
+ execute()
+ setTransactionFlags()
+ getTransactionFlags()
# initialize_ip()
# initialize dma()
# onDone_ip()
# onDone_dmaTx()
# onDone dmaRx()
    TensorProcessor
# current task
# status
# singleton tp array
+ TensorProcessor()
+ ~TensorProcessor()
+ initialize()
+ createTask()
+ createTask()
+ createTask()
+ createTask()
+ execute()
+ getStatus()
+ setExecutionFlags()
+ getExecutionFlags()
+ isValid()
+ instatiateProcessors()
+ getSingletonTPArray()
# createTask()
# createTask()
# onDone ip()
# onDone dmaTx()
# onDone dmaRx()
```