

Control Unit

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- Real Time
 - output attribute
 - input attribute
- Slow Control
 - output attribute
 - input attribute
 - slow command
 - advance queue command function

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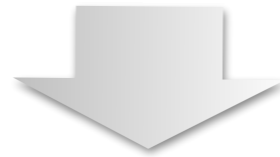
Control Unit

CHAOS has two types(for now) of control unit:

- Real Time
 - output attribute, are the characteristics that a device can expose like; temperature, pressure, voltage, ampere, etc...
 - input attribute, are characteristics of a device that can be changed like; current set-point, living room temperature, etc...

Control Unit

AbstractControlUnit is an abstract cpp class, that force developer to implement some method



Control Unit Toolkit

Common Toolkit

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Custom Control Unit



AbstractControlUnit

Control Unit Toolkit

Common Toolkit

- unitDefineActionAndDataset
- unitInit
- unitStart
- unitRun(){many times}
- unitStop
- unitDeinit

Control Unit Server

Host control unit description and permit to load and unload the control unit instances

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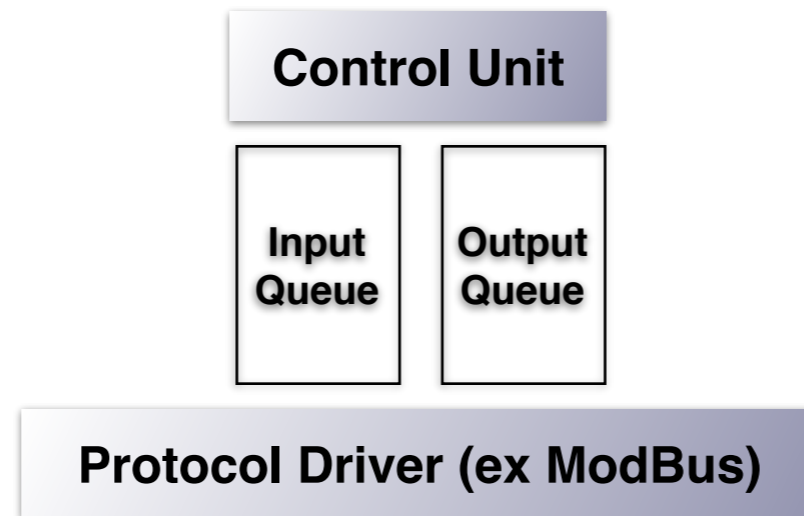
Unit Server(Alias)

Control Unit
Instance

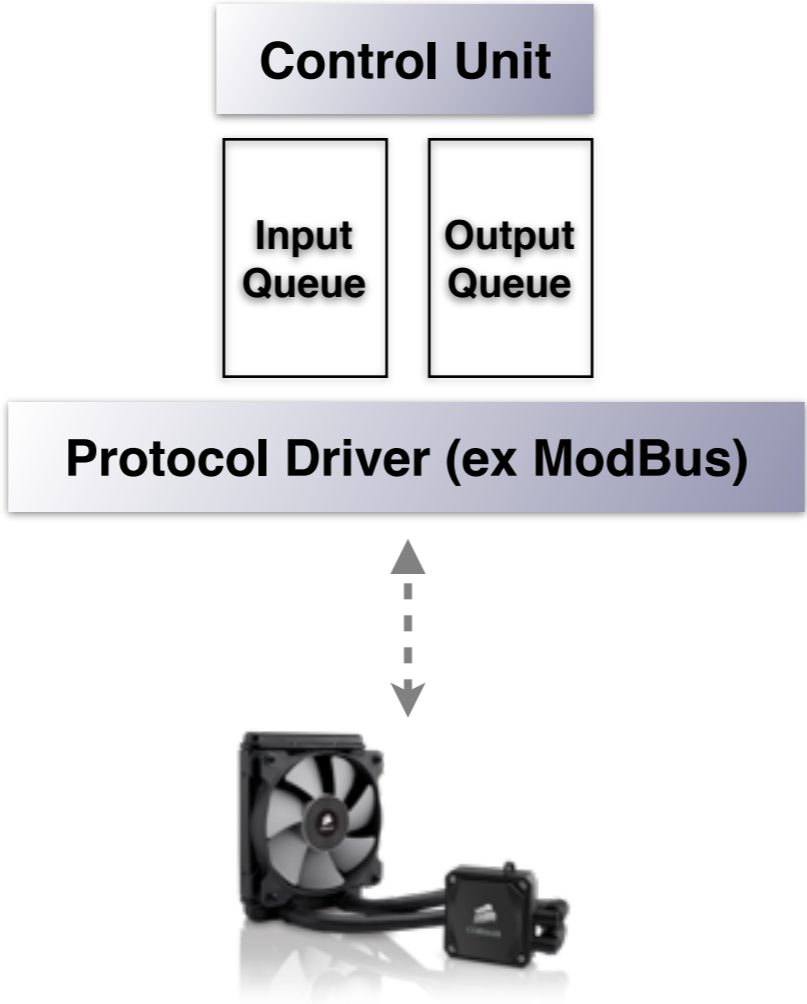


Control Unit
Instance

Chaos CU & Driver

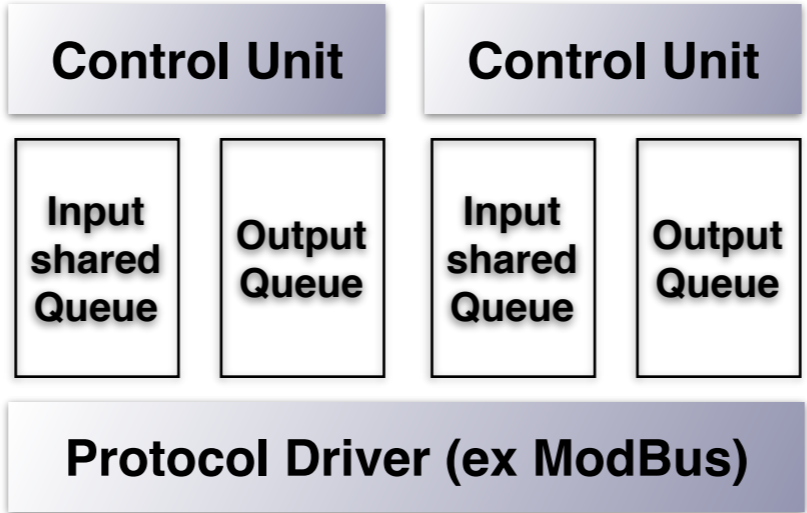


Chaos CU & Driver

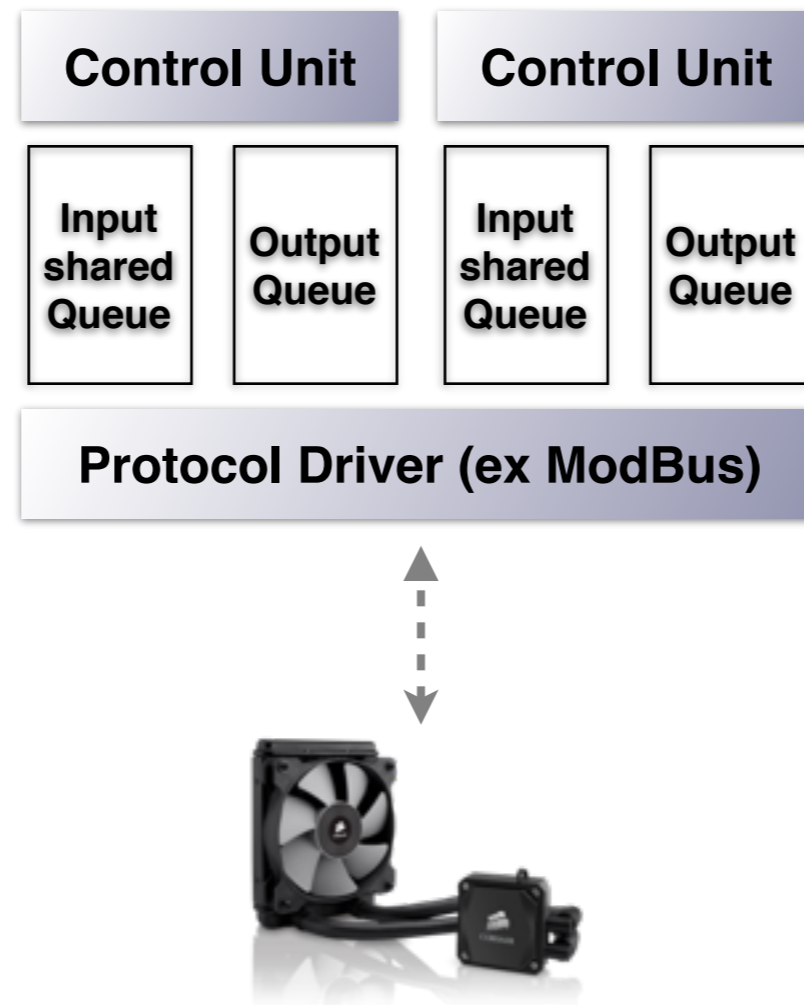


Every driver has a input and output queue for talk with another client c++ class

Chaos Driver

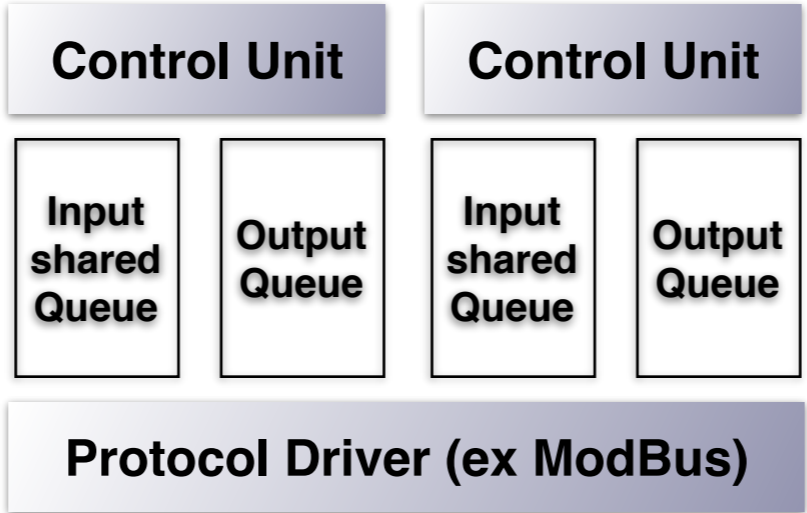


Chaos Driver

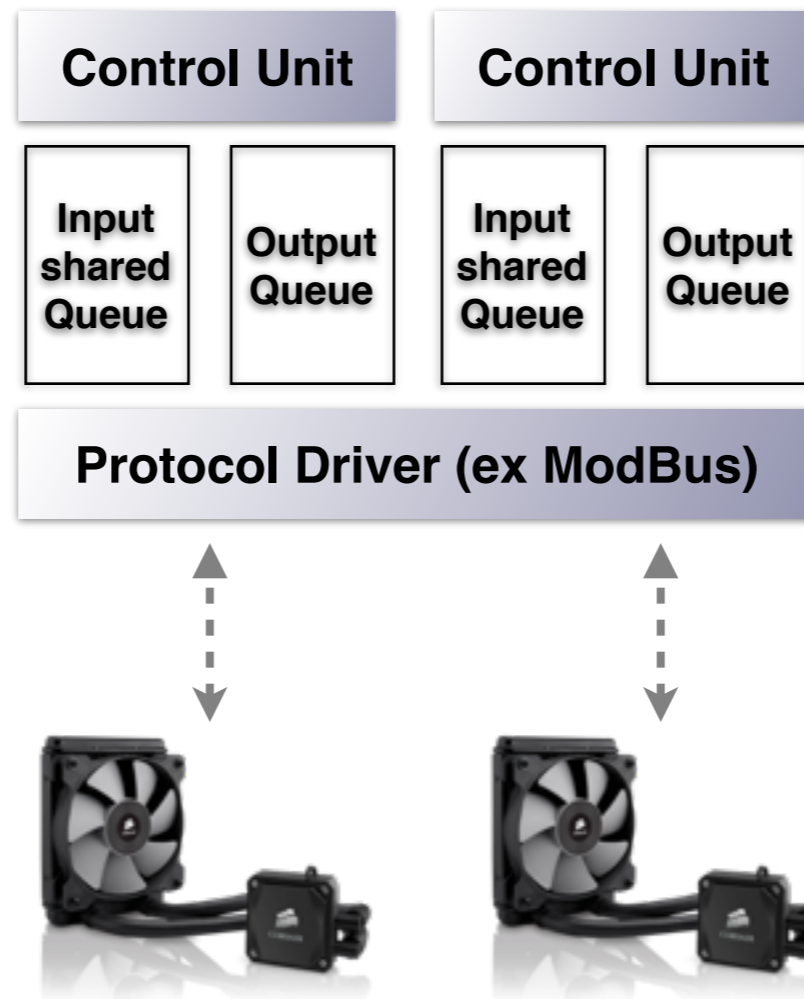


- *Every driver expose for every client a couple of queue (in-out) for communicate whit other class*
- *input queues are a unique shared queue*

Chaos Driver

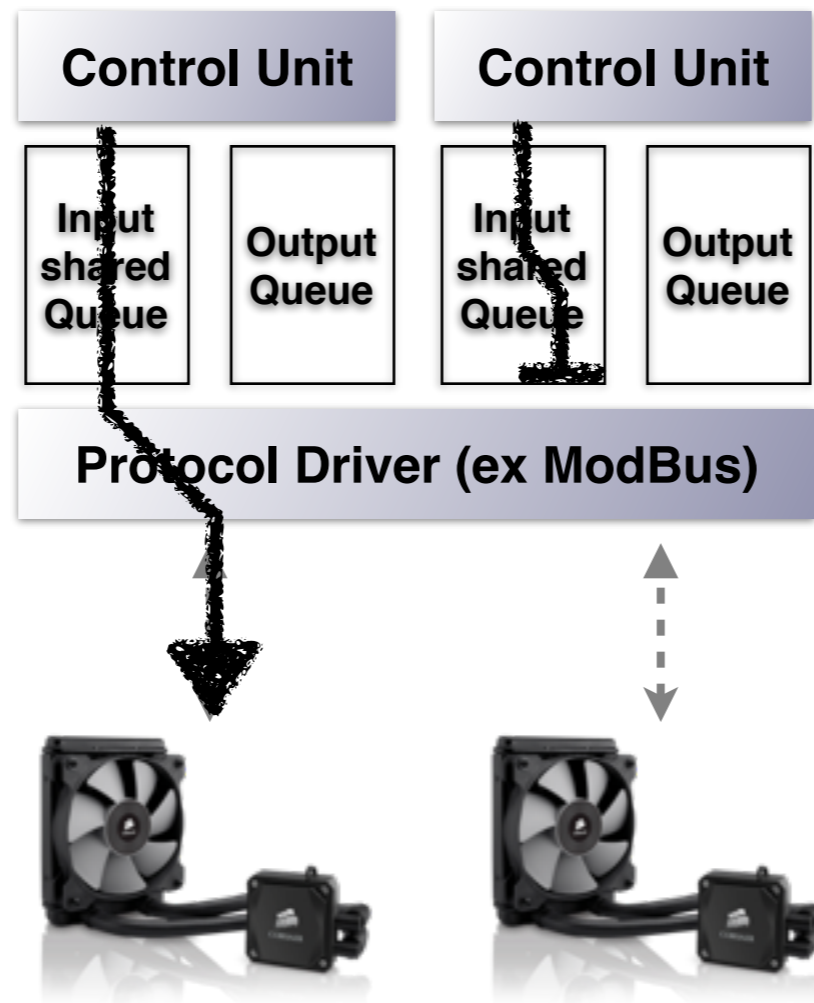


Chaos Driver



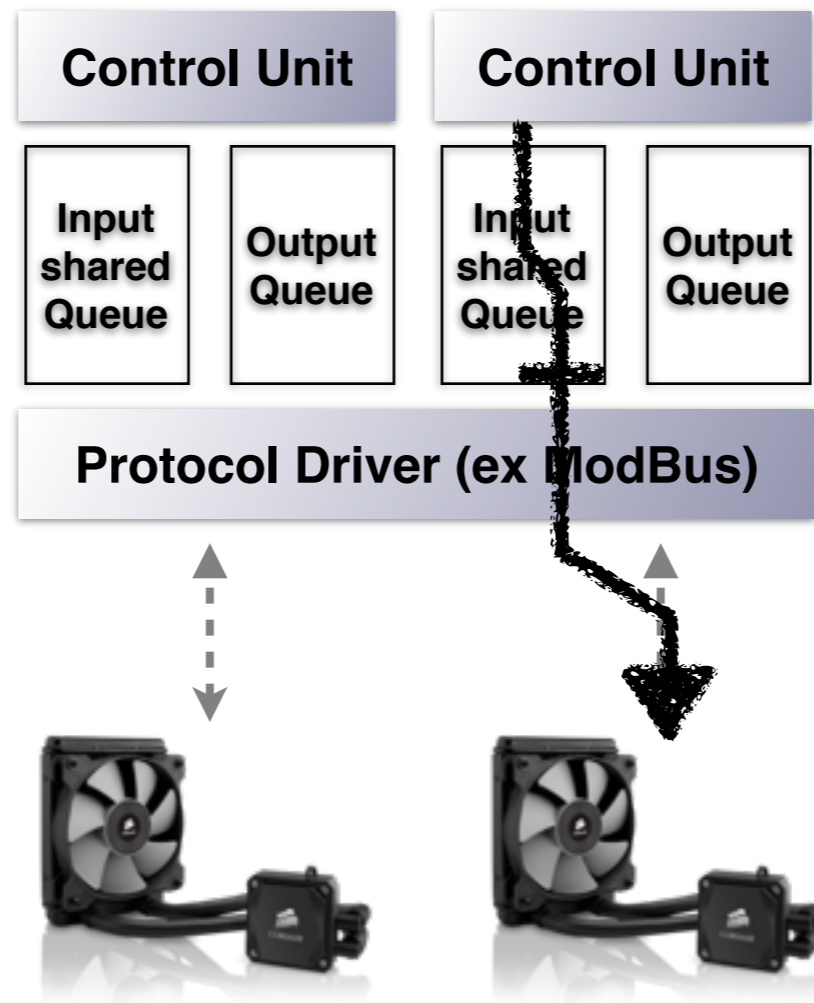
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- *the shared input queue are a unique shared queue and it will help the driver to serialize the command;*

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