opt_neuron

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

opt_neuron.run 7
opt_neuron.util 7

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

metaclass
- opt_neuron.util.Message . . . 9
  - opt_neuron.util.CommandMessage . . . 9
  - opt_neuron.util.RetValMessage . . . 11
  - opt_neuron.util.StatusMessage . . . 12

ABCMeta
- opt_neuron.util.Message . . . 9

Enum
- opt_neuron.util.MessageType . . . 11

PriorityQueue
- opt_neuron.util.MessageQueue . . . 10

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

opt_neuron.util.CommandMessage 9
opt_neuron.util.Message 9
opt_neuron.util.MessageQueue 10
opt_neuron.util.MessageType 11
opt_neuron.util.RetValMessage 11
opt_neuron.util.StatusMessage 12

Chapter 4

Namespace Documentation

4.1 opt_neuron.run Namespace Reference

Functions

- def run (sysargs)

Variables

- **shell** = None

4.1.1 Detailed Description

```
This script will take the parameter and initialize the core and gui.
```

4.1.2 Function Documentation

4.1.2.1 def opt_neuron.run.run (*sysargs*)

```
Parses the arguments and prints failure messages.
Loads the config file, given by the argument --config. If this argument is not present,
a file named *conf.ini* will be searched.
The config is no parsed, the main queues are initialized and the core
is loaded.
If specified, the GUI will be loaded, too.
This function waits for the core thread to join.
```

4.2 opt_neuron.util Namespace Reference

Classes

- class CommandMessage
- class Message
- class MessageQueue
- class MessageType
- class RetValMessage
- class StatusMessage

Functions

- def MESSAGE_FAILURE
- def MESSAGE_SUCCESS

Variables

- tuple **logger** = logging.getLogger(__name__)
- tuple **MESSAGE_EXIT** = CommandMessage('CORE-EXIT', priority=-9001)

4.2.1 Detailed Description

```
Contains utility.
```

4.2.2 Function Documentation

4.2.2.1 def opt_neuron.util.MESSAGE_FAILURE (*msg*, *status* = `None`)

```
Returns a message which indicates that the previous command failed.
Fancy output by Julian.
```

4.2.2.2 def opt_neuron.util.MESSAGE_SUCCESS (*msg*, *status* = `None`)

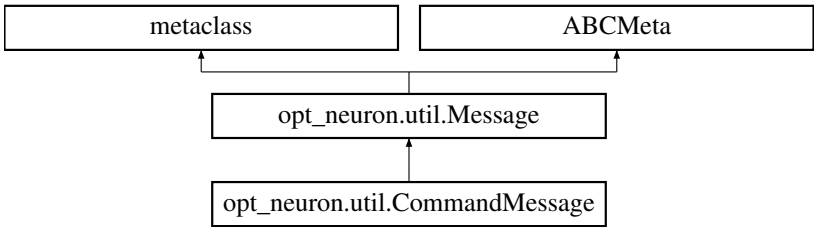
```
Returns a message which indicates that the previous command succeded.
Fancy output by Julian.
```

Chapter 5

Class Documentation

5.1 opt_neuron.util.CommandMessage Class Reference

Inheritance diagram for opt_neuron.util.CommandMessage:



Public Member Functions

- def **__init__**
- def **type** (self)

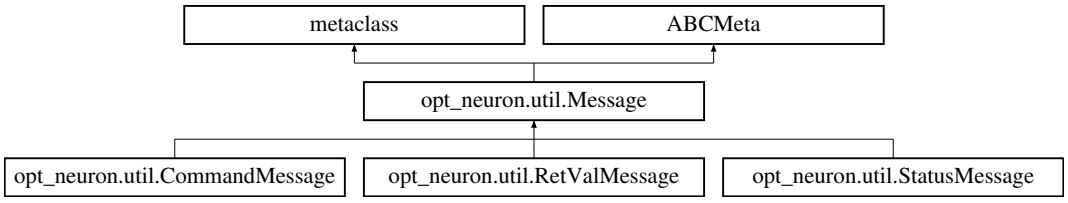
Additional Inherited Members

The documentation for this class was generated from the following file:

- opt_neuron/util.py

5.2 opt_neuron.util.Message Class Reference

Inheritance diagram for opt_neuron.util.Message:



Public Member Functions

- def **__init__**
- def type (self)
- def **id** (self)
- def **priority** (self)
- def **content** (self)
- def **__repr__** (self)
- def **__eq__** (self, other)
- def **__lt__** (self, other)

Public Attributes

- **content**
- **priority**
- **type**

5.2.1 Detailed Description

```
Message encapsulates a message.
A message has got a type (subclassed), an id, a priority and \
content, of course.
```

5.2.2 Member Function Documentation

5.2.2.1 def opt_neuron.util.Message.type (*self*)

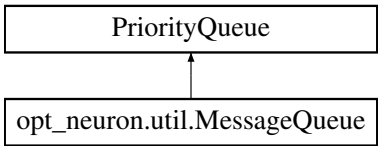
```
To be overwritten in subclasses. Should return a MessageType object.
```

The documentation for this class was generated from the following file:

- opt_neuron/util.py

5.3 opt_neuron.util.MessageQueue Class Reference

Inheritance diagram for opt_neuron.util.MessageQueue:



Public Member Functions

- def **put**
- def **get**

5.3.1 Detailed Description

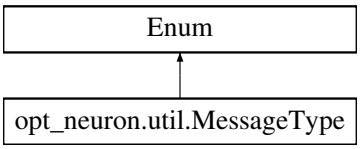
```
Adaption of the PriorityQueue class.
Only objects of type Message can be put in this queue as the name already suggests.
Every sent message will be logged (Level: DEBUG)
```

The documentation for this class was generated from the following file:

- opt_neuron/util.py

5.4 opt_neuron.util.MessageType Class Reference

Inheritance diagram for opt_neuron.util.MessageType:



Static Public Attributes

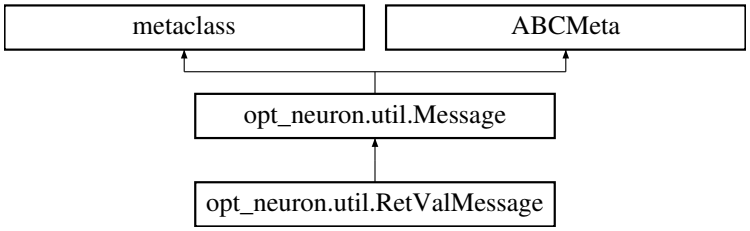
- int **STATUS** = 1
- int **COMMAND** = 2
- int **RETVAL** = 3

The documentation for this class was generated from the following file:

- opt_neuron/util.py

5.5 opt_neuron.util.RetValMessage Class Reference

Inheritance diagram for opt_neuron.util.RetValMessage:



Public Member Functions

- def **__init__**
- def **appendix** (self)
- def **cmd_id** (self)
- def **type** (self)

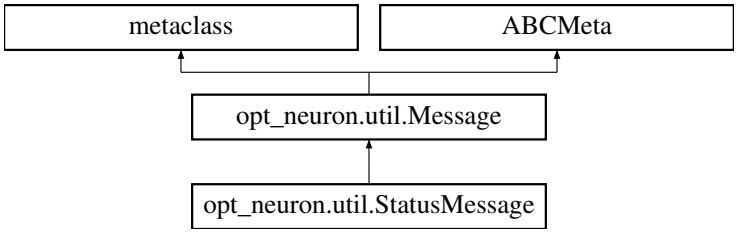
Additional Inherited Members

The documentation for this class was generated from the following file:

- opt_neuron/util.py

5.6 opt_neuron.util.StatusMessage Class Reference

Inheritance diagram for opt_neuron.util.StatusMessage:



Public Member Functions

- def **type** (self)

Additional Inherited Members

The documentation for this class was generated from the following file:

- opt_neuron/util.py

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