Erriez Timestamp library for Arduino

1.0.0

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

Timestamp 7
TimestampMicros 8
TimestampMillis 9

Chapter 2

Class Index

2.1 Class List

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

Timestamp
: Timstamp class 7

TimestampMicros
: TimestampMicros class derived from Timestamp 8

TimestampMillis
: TimestampMillis class derived from Timestamp 9

Chapter 3

File Index

3.1 File List

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

Timestamp.cpp
    Timestamp library for Arduino 11
Timestamp.h
    Timestamp library for Arduino 11

Chapter 4

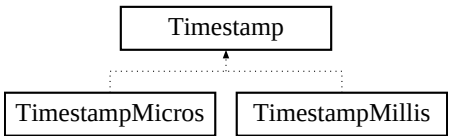
Class Documentation

4.1 Timestamp Class Reference

Timstamp class.

`#include <Timestamp.h>`

Inheritance diagram for Timestamp:



Public Member Functions

- Timestamp ()

  Timestamp constructor.
- virtual void start ()=0

  Derived class must implement start()
- virtual unsigned long end ()=0

  Derived class must implement end()
- virtual unsigned long print ()=0

  Derived class must implement print()

Protected Attributes

- unsigned long _timestampStart

  Timestamp at the beginning of a measurement.

4.1.1 Detailed Description

Timstamp class.

Definition at line 41 of file Timestamp.h.

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

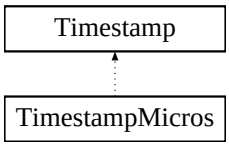
- Timestamp.h
- Timestamp.cpp

4.2 TimestampMicros Class Reference

TimestampMicros class derived from Timestamp.

`#include <Timestamp.h>`

Inheritance diagram for TimestampMicros:



Public Member Functions

- void start () override

  Start measurement in microseconds.
- unsigned long end () override

  End measurement.
- unsigned long print () override

  Print measurement in microseconds.

4.2.1 Detailed Description

TimestampMicros class derived from Timestamp.

Definition at line 57 of file Timestamp.h.

4.2.2 Member Function Documentation

4.2.2.1 end()

```
unsigned long TimestampMicros::end ( )  [override], [virtual]
```

End measurement.

Returns

Duration in micro seconds

Implements Timestamp.

Definition at line 56 of file Timestamp.cpp.

4.2.2.2 print()

```
unsigned long TimestampMicros::print ( )  [override], [virtual]
```

Print measurement in microseconds.

Returns

Duration in microseconds

Implements Timestamp.

Definition at line 70 of file Timestamp.cpp.

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

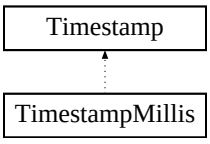
- Timestamp.h
- Timestamp.cpp

4.3 TimestampMillis Class Reference

TimestampMillis class derived from Timestamp.

```
#include <Timestamp.h>
```

Inheritance diagram for TimestampMillis:



Public Member Functions

- void start () override
  Start measurement in milliseconds.
- unsigned long end () override
  End measurement.
- unsigned long print () override
  Print measurement in milliseconds.

4.3.1 Detailed Description

TimestampMillis class derived from Timestamp.

Definition at line 68 of file Timestamp.h.

4.3.2 Member Function Documentation

4.3.2.1 end()

```
unsigned long TimestampMillis::end ( )  [override], [virtual]
```

End measurement.

Returns

Duration in milliseconds

Implements Timestamp.

Definition at line 99 of file Timestamp.cpp.

4.3.2.2 print()

```
unsigned long TimestampMillis::print ( )  [override], [virtual]
```

Print measurement in milliseconds.

Returns

Duration in milliseconds

Implements Timestamp.

Definition at line 113 of file Timestamp.cpp.

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

- Timestamp.h
- Timestamp.cpp

Chapter 5

File Documentation

5.1 Timestamp.cpp File Reference

Timestamp library for Arduino.

```
#include "Timestamp.h"
```

5.1.1 Detailed Description

Timestamp library for Arduino.

https://github.com/Erriez/ErriezTimestamp

5.2 Timestamp.h File Reference

Timestamp library for Arduino.

```
#include <Arduino.h>
```

Classes

- class Timestamp

  Timstamp class.
- class TimestampMicros

  TimestampMicros class derived from Timestamp.
- class TimestampMillis

  TimestampMillis class derived from Timestamp.

5.2.1 Detailed Description

Timestamp library for Arduino.

https://github.com/Erriez/ErriezTimestamp

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