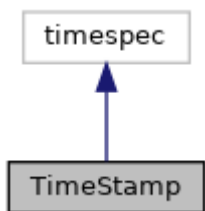


TimeStamp Class Reference

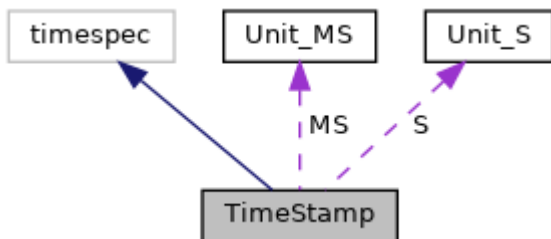
```
#include <timestamp.h>
```

Inheritance diagram for TimeStamp:



[\[legend\]](#)

Collaboration diagram for TimeStamp:



[\[legend\]](#)

Data Structures

class [Unit_MS](#)

class [Unit_S](#)

Public Member Functions

[TimeStamp](#) (time_t sec, long nsec)

[TimeStamp](#) (char sec)

[TimeStamp](#) (unsigned char sec)

[TimeStamp](#) (short sec)

[TimeStamp](#) (unsigned short sec)
[TimeStamp](#) (int sec)
[TimeStamp](#) (unsigned sec)
[TimeStamp](#) (long sec=0)
[TimeStamp](#) (unsigned long sec)
[TimeStamp](#) (float t)
[TimeStamp](#) (double t)
[TimeStamp](#) & [operator=](#) (time_t sec)
[TimeStamp](#) & [operator=](#) (double t)
[TimeStamp](#) & [operator+=](#) (const [TimeStamp](#) &o)
[TimeStamp](#) & [operator-=](#) (const [TimeStamp](#) &o)
double [get](#) () const
void [set](#) (double t)
time_t [s](#) () const
long [ms](#) () const
void [normalize](#) ()
void [clear](#) ()

Static Public Member Functions

static [TimeStamp](#) [Clock](#) ()
static [TimeStamp](#) [Monotonic](#) ()

Static Public Attributes

static [Unit_MS](#) [MS](#)
static [Unit_S](#) [S](#)

Detailed Description

time utility class

Data Structure Documentation

[?](#) [vfhtml::TimeStamp::Unit_MS](#)

class [vfhtml::TimeStamp::Unit_MS](#)

helper class for unit conversion

[?](#) **vfhtml::TimeStamp::Unit_S**

class vfhtml::TimeStamp::Unit_S

helper class for unit conversion

Constructor & Destructor Documentation

[?](#) **TimeStamp()** [1/11]

[TimeStamp](#) (time_t *sec*,
 long *nsec*
)

constuctor

Parameters

[in] *sec* seconds

[in] *nsec* nanoseconds

[?](#) **TimeStamp()** [2/11]

[TimeStamp](#) (char *sec*) inline

constuctor

Parameters

[in] *sec* seconds

[?](#) **TimeStamp()** [3/11]

[TimeStamp](#) (unsigned char *sec*) inline

constuctor

Parameters

[in] sec seconds

? TimeStamp() [4/11]

[TimeStamp](#) (short *sec*) inline

constuctor

Parameters

[in] sec seconds

? TimeStamp() [5/11]

[TimeStamp](#) (unsigned short *sec*) inline

constuctor

Parameters

[in] sec seconds

? TimeStamp() [6/11]

[TimeStamp](#) (int *sec*) inline

constuctor

Parameters

[in] sec seconds

? TimeStamp() [7/11]

[TimeStamp](#) (unsigned *sec*) inline

constuctor

Parameters

[in] sec seconds

[?](#) **TimeStamp()** [8/11]

[TimeStamp](#) (long *sec* = 0) inline

constuctor

Parameters

[in] *sec* seconds

[?](#) **TimeStamp()** [9/11]

[TimeStamp](#) (unsigned long *sec*) inline

constuctor

Parameters

[in] *sec* seconds

[?](#) **TimeStamp()** [10/11]

[TimeStamp](#) (float *t*)

constuctor

Parameters

[in] *t* seconds

[?](#) **TimeStamp()** [11/11]

[TimeStamp](#) (double *t*)

constuctor

Parameters

[in] *t* seconds

Member Function Documentation

[?](#) **clear()**

void clear () inline

reset to 0

[?](#) **Clock()**

static [TimeStamp](#) Clock () static

read realtime clock

Returns

unix time

[?](#) **get()**

double get () const inline

get time

[?](#) **Monotonic()**

static [TimeStamp](#) Monotonic () static

read monotonic clock

Returns

monitonic time

[?](#) **ms()**

long ms () const inline

create millisecond based time stamp

Returns

time stamp

[?](#) **normalize()**

void normalize ()

normalize time representation

[?](#) **operator+=()**

[TimeStamp](#)& operator+= (const [TimeStamp](#) & o)

[?](#) **operator-=()**

[TimeStamp](#)& operator-= (const [TimeStamp](#) & o)

[?](#) **operator=()** [1/2]

[TimeStamp](#)& operator= (double t)

assignment operator

Parameters

[in] t seconds

[?](#) **operator=()** [2/2]

[TimeStamp](#)& operator= (time_t sec) inline

assignment operator

Parameters

[in] sec seconds

[?](#) **s()**

time_t s () const inline

create second based time stamp

Returns
time stamp

[?](#) **set()**

void set (double *t*) inline

set time

Field Documentation

[?](#) **MS**

[Unit_MS](#) MS static

Millisecond unit

[?](#) **S**

[Unit_S](#) S static

Second unit

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

- [guiprt/src/html/timestamp.h](#)