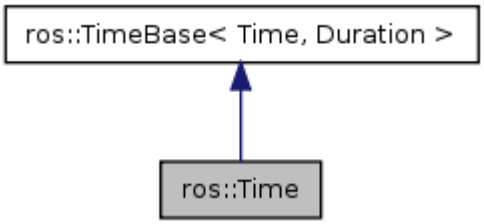
ros::Time Class Reference

Time representation. May either represent wall clock time or ROS clock time More...

`#include <time.h>`

Inheritance diagram for ros::Time:



[legend]

List of all members.

Public Member Functions

	Time (double t)
	Time (uint32_t _sec, uint32_t _nsec)
	Time ()

Static Public Member Functions

static void	**init** ()
static bool	**isSimTime** ()
static bool	**isSystemTime** ()
static bool	**isValid** () *Returns whether or not the current time is valid. **Time** is valid if it is non-zero.*
static **Time**	**now** () *Retrieve the current time. If ROS clock time is in use, this returns the time according to the ROS clock. Otherwise returns the current wall clock time.*
static void	**setNow** (const **Time** &new_now)
static void	**shutdown** ()
static bool	**sleepUntil** (const **Time** &end) *Sleep until a specific time has been reached.*
static bool	**useSystemTime** ()
static bool	**waitForValid** (const **ros::WallDuration** &timeout) *Wait for time to become valid, with timeout.*
static bool	**waitForValid** () *Wait for time to become valid.*

Detailed Description

Time representation. May either represent wall clock time or ROS clock time.

ros::TimeBase provides most of its functionality

Definition at line **189** of file **time.h**.

Constructor & Destructor Documentation

ros::Time::Time ( ) [inline]

Definition at line **192** of file **time.h**.

ros::Time::Time (uint32_t *_sec*,
uint32_t *_nsec*
) [inline]

Definition at line **196** of file **time.h**.

ros::Time::Time (double *t*) [inline, explicit]

Definition at line **200** of file **time.h**.

Member Function Documentation

void ros::Time::init ( ) [static]

Definition at line **260** of file **time.cpp**.

bool ros::Time::isSimTime ( ) [static]

Definition at line **222** of file **time.cpp**.

bool ros::Time::isSystemTime ( ) [static]

Definition at line **227** of file **time.cpp**.

bool ros::Time::isValid ( ) [static]

Returns whether or not the current time is valid**Time** is valid if it is non-zero.

Definition at line **272** of file **time.cpp**.

Time ros::Time::now ( ) [static]

Retrieve the current time. If ROS clock time is in use, this returns the time according to the ROS clock. Otherwise returns the current wall clock time.

Definition at line **232** of file **time.cpp**.

void ros::Time::setNow (const Time & *new_now*) [static]

Definition at line **252** of file **time.cpp**.

void ros::Time::shutdown ( ) [static]

Definition at line **267** of file **time.cpp**.

bool ros::Time::sleepUntil (const Time & *end*) [static]

Sleep until a specific time has been reached.

Definition at line **315** of file **time.cpp**.

bool ros::Time::useSystemTime ( ) [static]

Definition at line **217** of file **time.cpp**.

bool ros::Time::waitForValid (const ros::WallDuration & *timeout*) [static]

Wait for time to become valid, with timeout.

Definition at line **282** of file **time.cpp**.

bool ros::Time::waitForValid ( ) [static]

Wait for time to become valid.

Definition at line **277** of file **time.cpp**.

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

- **time.h**
- **time.cpp**

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rostime
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