

## C++ User Group - Talk #566

### std::chrono — typesafe time keeping in C++

2014-04-28 14:56 - Kretz, Matthias

<b>Status:</b>	Presented	<b>Start date:</b>	2014-04-28
<b>Priority:</b>	Normal	<b>Due date:</b>	2014-05-28
<b>Assignee:</b>	Bäuchle, Bjørn	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Talk Author(s):</b>	Bjørn Bäuchle	<b>Presenter:</b>	Bjørn Bäuchle

#### Description

Calculations with times, dates and durations are necessary in many different contexts. In scientific codes we are often interested in time durations, be that for measuring run-time or calculations on time points. C++11 introduced the std::chrono classes to the standard library to simplify these tasks.

In the talk, I will give an overview over the facilities provided by C and point out pit falls. Thereafter, std::chrono is introduced and its solutions and shortcomings are discussed.

#### History

##### #1 - 2014-04-28 15:03 - Kretz, Matthias

- Due date set to 2014-05-28

- Assignee set to Bäuchle, Bjørn

##### #2 - 2014-04-30 16:30 - Kretz, Matthias

- Status changed from New to Accepted for Presentation

##### #3 - 2014-05-28 09:12 - Kretz, Matthias

- Subject changed from std::chrono to std::chrono — typesafe time keeping in C++

- Description updated

##### #4 - 2014-05-28 09:12 - Kretz, Matthias

- Description updated

##### #5 - 2014-05-28 16:09 - Bäuchle, Bjørn

- File chrono.pdf added

- Talk Author(s) set to Bjørn Bäuchle

- Presenter set to Bjørn Bäuchle

##### #6 - 2014-06-02 15:24 - Kretz, Matthias

- Status changed from Accepted for Presentation to Presented

#### Files

chrono.pdf	196 KB	2014-05-28	Bäuchle, Bjørn
------------	--------	------------	----------------