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header <chrono>

Time library

chrono is the name of a header, but also of a sub-namespace: All the elements in this header (except for the common_type specializations) are not defined directly under the std namespace (like most of the standard library) but under the std::chrono

The elements in this header deal with time. This is done mainly by means of three concepts:

Durations

They measure time spans, like: one minute, two hours, or ten milliseconds.

In this library, they are represented with objects of the duration class template, that couples a count representation and a period precision (e.g., ten milliseconds has ten as count representation and milliseconds as period precision)

A reference to a specific point in time, like one's birthday, today's dawn, or when the next train passes.

In this library, objects of the time_point class template express this by using a duration relative to an *epoch* (which is a fixed point in time common to all time_point objects using the same clock).

A framework that relates a time point to real physical time.

The library provides at least three clocks that provide means to express the current time as a time_point: system_clock, steady_clock and high_resolution_clock.

For typical examples, see steady_clock or system_clock.

Classes

duration and time_point:

duration	Duration (class template)
time_point	Time point (class template)

clocks:

system_clock	System clock (class)
steady_clock	Steady clock (class)
high_resolution_clock	High resolution clock (class)

traits:

treat_as_floating_point	Treat as floating point (class template)
duration_values	Duration values (class template)
common_type (duration)	Specialization of common_type for duration (class template)

Functions

duration_cast	Duration cast (function template)
time_point_cast	Time_point cast (function template)

Class instantiation typedefs

The following convenience typedefs of instantiations of duration are also defined in this namespace:

The following convenience typedelo of instantations of day a case defined in this harnespace.		
hours	Duration in hours (class)	
minutes	Duration in minutes (class)	
seconds	Duration in seconds (class)	
milliseconds	Duration in milliseconds (class)	
microseconds	Duration in microseconds (class)	
nanoseconds	Duration in nanoseconds (class)	

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