+future darkly+ std future cppreference std future<T> valid cppreference std future<T> get cppreference std.

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Mar 12 2024 The class template std futureprovides a mechanism to access the result of asynchronous operations An asynchronous operation created via std async std packaged_task or std promise can provide a std futureobject to the creator of that asynchronous operation

The creator of the asynchronous operation can then use a variety of methods to query wait for or extract a value from the std Aug 27 2021 Checks if thefuturerefers to a shared state. This is the case only for futures that were not default constructed or moved from i.e

returned by std promise get_future std packaged_task get_future or std async until the first time get or share is called

The behavior is undefined if any member function other than the destructor the move assignment operator or valid is Feb 22 2024 The get member function waits by calling wait until the shared state is ready then retrieves the value stored in the shared state if any

Right after calling this function valid is false. If valid is false before the call to this function the behavior is undefined Mar 19 2025 Specifies state of afutureas returned by wait_for and wait_until functions of std futureand std shared_future

Constants Oct 23 2023 Unlike std future which is only moveable so only one instance can refer to any particular asynchronous result std shared_futureis copyable and multiple sharedfutureobjects may refer to the same shared state

Access to the same shared state from multiple threads is safe if each thread does it through its own copy of a shared_futureobject Jun 5 2012 Since C++11 std futurenow has both a wait and a get method which will wait until thefuturehas a valid response with the latter method waiting blocking and then returning a result when it is ready Mar 6 2020 impl<F>Futurefor Box<F> where F Unpin +Future+ ?Sized Boxed futures only implement theFuturetrait when thefutureinside the Box implements Unpin

Since your function doesn t guarantee that the returnedfutureimplements Unpin your return value will be considered to not implementFuture. You ll not able to await it because your type is basically not aFuture

The solution from Aug 27 2021 If thefutureis the result of a call to std async that used lazy evaluation this function returns immediately without waiting. This function may block for longer than timeout_duration due to scheduling or resource contention delays

The standard recommends that a steady clock is used to measure the duration Jul

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