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//
///////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;

} // namespace detail
} // namespace intrusive
} // namespace boost

#endif // #ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
template <typename T, typename DefaultType>                    \

struct boost_intrusive_default_type_##TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap { typedef DefaultType TNAME; };

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::if_c
        <value, T, DefaultWrap>::type::TNAME type;
};

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)
    typename INSTANTIATION_NS_PREFIX
        boost_intrusive_default_type_##TNAME< T, TIMPL >::type

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
    template <typename T, typename DefaultType>
    struct boost_intrusive_eval_default_type_##TNAME
    {
        template <typename X>
        static char test(int, typename X::TNAME*);

        template <typename X>
        static int test(...);

        struct DefaultWrap
        { typedef typename DefaultType::type TNAME; };

        static const bool value = (1 == sizeof(test<T>(0, 0)));

        typedef typename
            ::boost::intrusive::detail::eval_if_c
            < value
            , ::boost::intrusive::detail::identity<T>
            , ::boost::intrusive::detail::identity<DefaultWrap>
            >::type::TNAME type;
    };
```cpp
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
    template <class T>\
    struct TRAITS_PREFIX##_bool\
    {\
        template<bool Add>\
        struct two_or_three {yes_type _[2 + Add];};\
        template <class U> static yes_type test(...);
        template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
        static const std::size_t value = sizeof(test<T>(0));\
    };
    \
    template <class T>\
    struct TRAITS_PREFIX##_bool_is_true\
    {\
        static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
    };
//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    template <typename U, typename Signature>\
    class TRAITS_NAME\
    {\
        private:\
            template<Signature> struct helper;\
            template<typename T>\
            static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);\
            template<typename T> static ::boost::intrusive::detail::no_type test(...);
        public:\
            static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);\
    };
//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type>\
    struct TRAITS_NAME\
    {\
        struct BaseMixin\
        {\
            void FUNC_NAME();\
        };
    };
```
struct Base : public Type, public BaseMixin { Base(); }

template <typename T, T t> class Helper{ }

template <typename U>
static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);
static ::boost::intrusive::detail::yes_type test(...);
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, 
FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) 

//namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

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//

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#elif defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once

#include <boost/intrusive/detail/config_end.hpp>

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//
//

#include <boost/intrusive/detail/config_end.hpp>
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>
namespace boost {
    namespace container {
        namespace container_detail {

            using boost::move_detail::integral_constant;
            using boost::move_detail::true_type;
            using boost::move_detail::false_type;
            using boost::move_detail::enable_if_c;
            using boost::move_detail::enable_if;
            using boost::move_detail::enable_ifConvertible;
            using boost::move_detail::disable_if_c;
            using boost::move_detail::disable_if;
            using boost::move_detail::disable_ifConvertible;
            using boost::move_detail::isConvertible;
            using boost::move_detail::if_c;
            using boost::move_detail::if_;
            using boost::move_detail::identity;
            using boost::move_detail::bool_;
            using boost::move_detail::true_;
            using boost::move_detail::false_;
            using boost::move_detail::yes_type;
            using boost::move_detail::no_type;
            using boost::move_detail::bool_;
            using boost::move_detail::true_;
            using boost::move_detail::false_;
            using boost::move_detail::unvoid_ref;
            using boost::move_detail::and_;
            using boost::move_detail::or_;
            using boost::move_detail::not_;
            using boost::move_detail::enable_if_and;
            using boost::move_detail::disable_if_and;
            using boost::move_detail::enable_if_or;
            using boost::move_detail::disable_if_or;

            template <class Pair>
            struct select1st
            {
                typedef Pair argument_type;
            };

        } // namespace container_detail
    } // namespace container
} // namespace boost

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typedef typename Pair::first_type result_type;

template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;  }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }
};

namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//
/////////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
  #pragma once
#endif

#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
static const T value = val;
typedef integral_constant<T,val> type;

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};
typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {};
template <class T>
struct enable_if_c<false, T> {};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};
template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
  bool C
  , typename T1
  , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
  , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
  , typename T2
  , typename T3
>
struct if_
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  {  return x.first;  }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
typedef T type;
const T& operator()(const T& x) const
{ return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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tomb - support for clean goroutine termination in Go.

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mgo - MongoDB driver for Go

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zlib.h -- interface of the 'zlib' general purpose compression library
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Written by: Philip Hazel
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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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