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THE BASIC LIBRARY FUNCTIONS
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PCRE JUST-IN-TIME COMPILATION SUPPORT
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Written by: Zoltan Herczeg
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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::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::false_;  
using boost::move_detail::false_;  
using boost::move_detail::false_;  
using boost::move_detail::false_;  
using boost::move_detail::false_;  
using boost::move_detail::false_;  
using boost::move_detail::false_;  
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();
   };
};
```

---

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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))); 

#endif //BOOST_INTRUSIVE_DETAIL_MPL_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 //BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#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)

#endif //BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
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;
};
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 { 
  typedef T type;
};
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<typename S>
struct ls_zeros
{
    static const std::size_t value = (S % std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1>::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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Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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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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