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G++ 2.91.57, cygnus\cygwin-b20\include\g++\stl_multiset.h 完整列表
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/* NOTE: This is an internal header file, included by other STL headers.
   You should not attempt to use it directly.
* /
#ifndef __SGI_STL_INTERNAL_MULTISET_H
#define __SGI_STL_INTERNAL_MULTISET_H
__STL_BEGIN_NAMESPACE
#if defined(__sgi) && !defined(__GNUC__) && (_MIPS_SIM != _MIPS_SIM_ABI32)
#pragma set woff 1174
#endif
#ifndef __STL_LIMITED_DEFAULT_TEMPLATES
template <class Key, class Compare = less<Key>, class Alloc = alloc>
template <class Key, class Compare, class Alloc = alloc>
#endif
class multiset {
public:
 // typedefs:
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typedef Key key_type;
 typedef Key value_type;
 typedef Compare key_compare;
 typedef Compare value_compare;
private:
 typedef rb_tree<key_type, value_type,</pre>
               identity<value_type>, key_compare, Alloc> rep_type;
 rep_type t; // red-black tree representing multiset
public:
 typedef typename rep_type::const_pointer pointer;
 typedef typename rep_type::const_pointer const_pointer;
 typedef typename rep_type::const_reference reference;
 typedef typename rep_type::const_reference const_reference;
 typedef typename rep_type::const_iterator iterator;
 typedef typename rep_type::const_iterator const_iterator;
 typedef typename rep_type::const_reverse_iterator reverse_iterator;
 typedef typename rep_type::const_reverse_iterator const_reverse_iterator;
 typedef typename rep_type::size_type size_type;
 typedef typename rep_type::difference_type difference_type;
 // allocation/deallocation
 // 注意, multiset 一定使用 insert_equal() 而不使用 insert_unique()。
 // set 才使用 insert_unique()。
 multiset() : t(Compare()) {}
 explicit multiset(const Compare& comp) : t(comp) {}
#ifdef ___STL_MEMBER_TEMPLATES
 template <class InputIterator>
 multiset(InputIterator first, InputIterator last)
   : t(Compare()) { t.insert_equal(first, last); }
 template <class InputIterator>
 multiset(InputIterator first, InputIterator last, const Compare& comp)
   : t(comp) { t.insert_equal(first, last); }
#else
 multiset(const value_type* first, const value_type* last)
   : t(Compare()) { t.insert_equal(first, last); }
 multiset(const value_type* first, const value_type* last,
         const Compare& comp)
   : t(comp) { t.insert_equal(first, last); }
 multiset(const_iterator first, const_iterator last)
   : t(Compare()) { t.insert_equal(first, last); }
 multiset(const_iterator first, const_iterator last, const Compare& comp)
   : t(comp) { t.insert_equal(first, last); }
#endif /* __STL_MEMBER_TEMPLATES */
 multiset(const multiset<Key, Compare, Alloc>& x) : t(x.t) {}
 multiset<Key, Compare, Alloc>&
 operator=(const multiset<Key, Compare, Alloc>& x) {
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t = x.t;
   return *this;
 // accessors:
 key_compare key_comp() const { return t.key_comp(); }
 value_compare value_comp() const { return t.key_comp(); }
 iterator begin() const { return t.begin(); }
 iterator end() const { return t.end(); }
 reverse_iterator rbegin() const { return t.rbegin(); }
 reverse_iterator rend() const { return t.rend(); }
 bool empty() const { return t.empty(); }
 size_type size() const { return t.size(); }
 size_type max_size() const { return t.max_size(); }
 void swap(multiset<Key, Compare, Alloc>& x) { t.swap(x.t); }
 // insert/erase
 iterator insert(const value_type& x) {
   return t.insert_equal(x);
 iterator insert(iterator position, const value_type& x) {
   typedef typename rep_type::iterator rep_iterator;
   return t.insert_equal((rep_iterator&)position, x);
 }
#ifdef __STL_MEMBER_TEMPLATES
 template <class InputIterator>
 void insert(InputIterator first, InputIterator last) {
   t.insert_equal(first, last);
 }
#else
 void insert(const value_type* first, const value_type* last) {
   t.insert_equal(first, last);
 void insert(const_iterator first, const_iterator last) {
   t.insert_equal(first, last);
#endif /* __STL_MEMBER_TEMPLATES */
 void erase(iterator position) {
   typedef typename rep_type::iterator rep_iterator;
   t.erase((rep_iterator&)position);
 size_type erase(const key_type& x) {
   return t.erase(x);
 void erase(iterator first, iterator last) {
   typedef typename rep_type::iterator rep_iterator;
   t.erase((rep_iterator&)first, (rep_iterator&)last);
```

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void clear() { t.clear(); }
 // multiset operations:
 iterator find(const key_type& x) const { return t.find(x); }
 size_type count(const key_type& x) const { return t.count(x); }
 iterator lower_bound(const key_type& x) const {
   return t.lower_bound(x);
 iterator upper_bound(const key_type& x) const {
   return t.upper_bound(x);
 return t.equal_range(x);
 friend bool operator== __STL_NULL_TMPL_ARGS (const multiset&,
                                      const multiset&);
 friend bool operator< __STL_NULL_TMPL_ARGS (const multiset&,</pre>
                                     const multiset&);
};
template <class Key, class Compare, class Alloc>
inline bool operator == (const multiset < Key, Compare, Alloc > & x,
                  const multiset<Key, Compare, Alloc>& y) {
 return x.t == y.t;
}
template <class Key, class Compare, class Alloc>
inline bool operator<(const multiset<Key, Compare, Alloc>& x,
                 const multiset<Key, Compare, Alloc>& y) {
 return x.t < y.t;</pre>
}
#ifdef __STL_FUNCTION_TMPL_PARTIAL_ORDER
template <class Key, class Compare, class Alloc>
inline void swap(multiset<Key, Compare, Alloc>& x,
             multiset<Key, Compare, Alloc>& y) {
 x.swap(y);
}
#endif /* __STL_FUNCTION_TMPL_PARTIAL_ORDER */
#if defined(__sgi) && !defined(__GNUC__) && (_MIPS_SIM != _MIPS_SIM_ABI32)
#pragma reset woff 1174
#endif
__STL_END_NAMESPACE
```

```
#endif /* __SGI_STL_INTERNAL_MULTISET_H */
// Local Variables:
// mode:C++
// End:
```